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Wissenschaftliche Auszeichnungen, Berufungen

Genzel, R.: Crafoord Prize in Astronomy, Royal Swedish Academy of Sciences, Sweden, Mai 2012.

Genzel, R.: Tycho Brahe Prize, European Astronomical Society (EAS), Switzerland, Juli 2012.

Gillessen, S.: ERC-Starting Grant, October 2012.

Karska, A.: "For Women in Science" Förderpreis, Berlin Juni 2012.

Schady, P.: Sofja Kovalevskaja-Preis, August 2012.

Tacconi, L.: Lancelot M. Berkeley Prize / American Astronomical Society, Januar 2012.

Thoma, M.: Universität Giessen, Ruf auf W3-Professur für Plasma- und Raumfahrtphysik, Dezember 2012.

Trümper, J.: "Order of the Rising Sun" Award, Japanese Government, Berlin, Juli 2012.

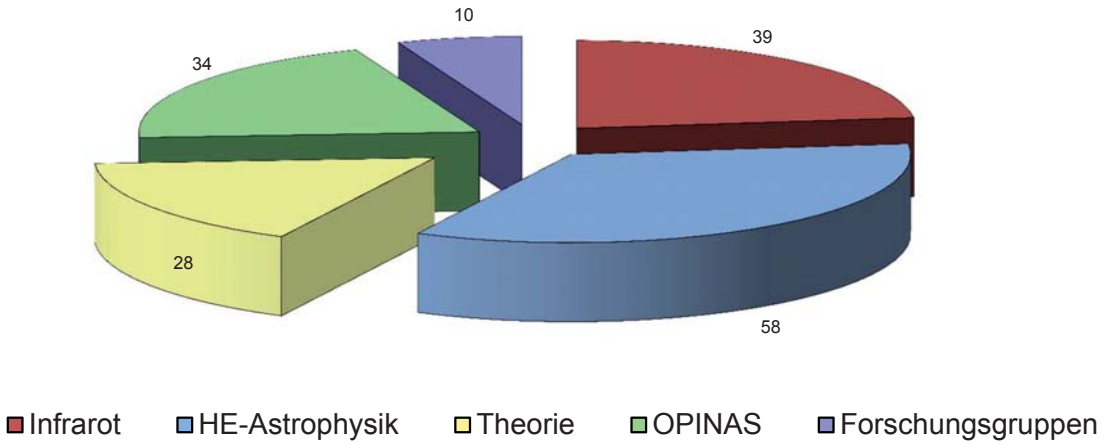
van Dishoeck, E.: Akademie-Preis der königlich niederländischen Akademie der Wissenschaften, Juni 2012.

van Dishoeck, E.: Advanced ERC award, Dezember 2012.

van Dishoeck, E.: Greenstein Lecture, California Institute of Technology, April 2012.

Wissenschaftliche Arbeitsgruppen

Mitarbeiter nach wissenschaftlichen Arbeitsgruppen



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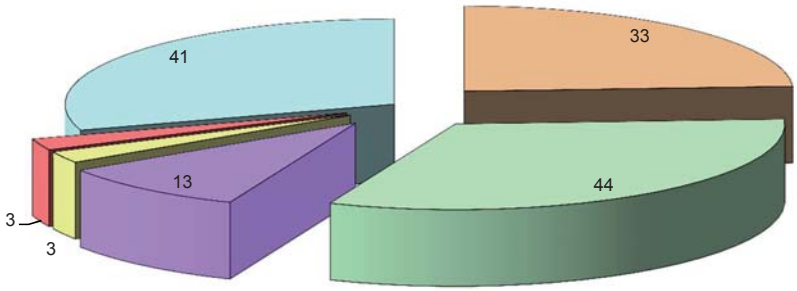

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Auszubildende

Cziasto, D. (bis 28.2.); Greil, M.; Hiefinger, M.; Kratschmann, T.; Leimböck, F. (seit 1.9.); Reinold, A.; Schuppe, D. (seit 1.9.)

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Publikationsunterstützung

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IMPRS

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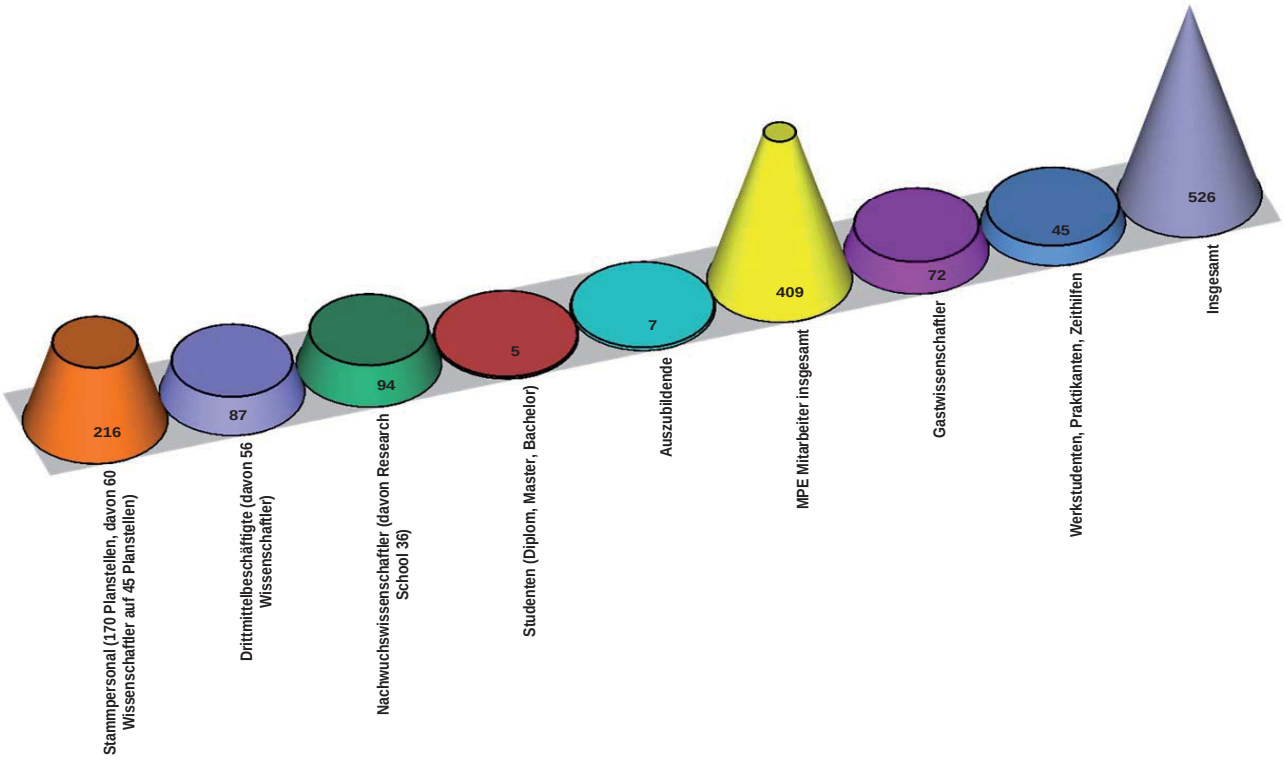
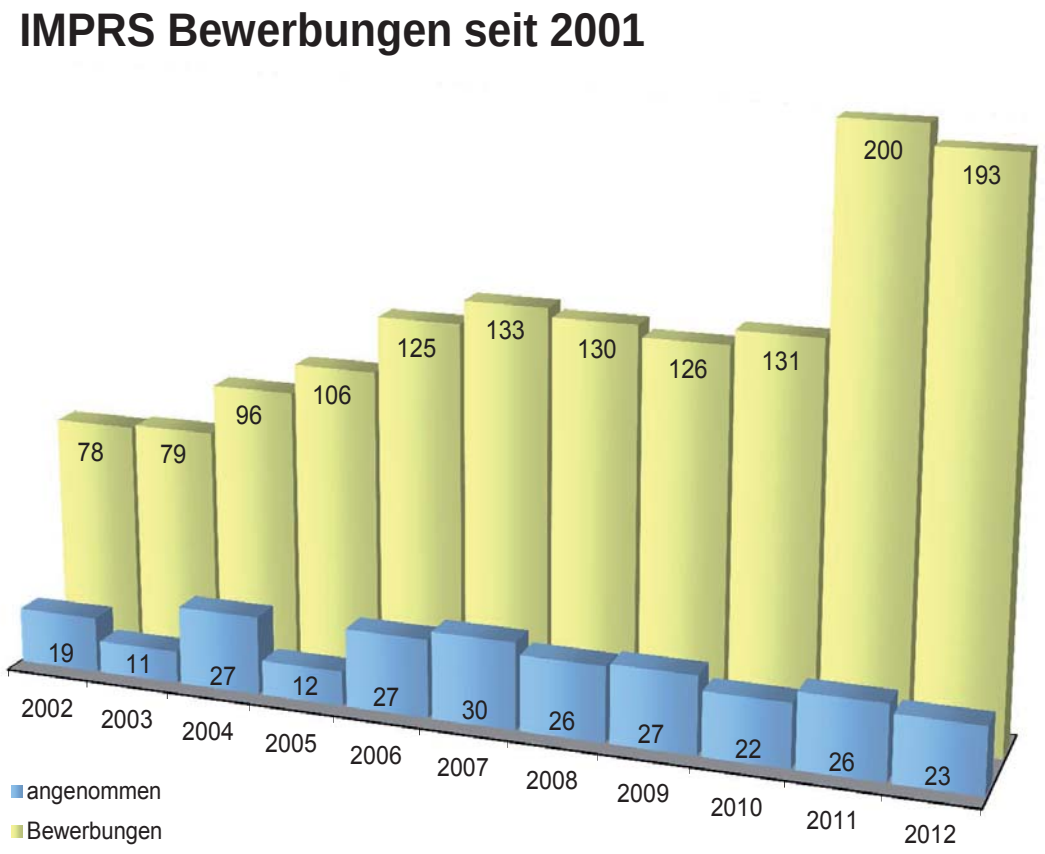
Personalstatistik



Internationale Max-Planck Research School (IMPRS) für Astrophysik

Die IMPRS für Astrophysik ist eine Graduiertenschule an der Ludwig-Maximilians-Universität (LMU) München. Sie ist ein gemeinsames Projekt der beiden Max-Planck-Institute MPE und MPA (Max-Planck-Institut für Astrophysik) sowie der Sternwarte der LMU München und der Europäischen Südsternwarte ESO. Im akademischen Jahr 2012 nahmen insgesamt 81 Studenten an dem Programm teil, davon 33 am MPE. Im Jahr 2012 haben sich 193 Studenten für das Studienjahr 2013 beworben, 23 davon wurden angenommen (Stand Mai 2013).



Öffentlichkeitsarbeit

Das MPE engagierte sich 2012 durch folgende Aktivitaten in der Öffentlichkeitsarbeit: 26 populär-wissenschaftliche Vorträge durch Wissenschaftler, 9 Pressemitteilungen über wissenschaftliche Ergebnisse, 14 allgemeine Nachrichten (wissenschaftlich, Preise, Auszeichnungen), 30 Institutsführungen (meist naturwissenschaftlich orientierte Schulklassen), die Betreuung von 13 Schüler- (1 - 2 Wochen) und 6 Hochschulpraktikanten (4 - 8 Wochen). Am Girl's Day im April informierten sich 50 Mädchen über das Institut. Weitere Informationen zur Öffentlichkeitsarbeit sind unter:

http://www.mpe.mpg.de/2305/public-outreachl

zu finden.

Projekt-Gruppen

(Projektleiter unterstrichen)

Infrarot- und Submillimeter-Astronomie

Stellvertreter des Gruppendirektors:
Lutz, Tacconi.

ERIS
Eisenhauer, Feuchtgruber, Hartl, Hofmann, Schubert, Sturm, Tarantik.

GRAVITY
Blind, Burtscher, Eisenhauer, Genzel,Gillessen, Haug, Hausmann, Hofmann, Janssen, Kellner, Krombach, Lippa, Ott, Pfuhl, Sturm, Wieprecht, Zanker-Smith.

Herschel-PACS
Berta, Contursi, Doublier Pritchard, de Jong, Feuchtgruber, Kleiser, Krombach, Lutz, T. Müller, Osterhage, Poglitsch, Popesso, Sturm, Vilenius, Wetzstein.

KMOS
Agudo Berbel, Davies, Förster Schreiber, Wiezorrek.

LBT Argos
Barl, Davies, M. Deysenroth, Gemperlein, Loose, Orban de Xivry, Raab, Rabien, Ziegleder.

LBT LUCI
Buschkamp, Eibl, Eisenhauer, Gemperlein, Hofmann, Honsberg, Kurk, Lederer, Rabien, Straube.

MICADO
Davies, Hartl, Kurk, Schubert, E. Sturm.

SPICA-SAFARI
Barl, Geis, Poglitsch, Raab, Schubert.

Galaktisches Zentrum
Dodds-Eden, Eisenhauer, Fritz, Genzel, Gillessen, Ott, Pfuhl.

Galaxienkerne
Burtscher, Contursi, Davies, Genzel, Gracia Carpio, Janssen, Lutz, Orban de Xivry, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung
Berta, Buschkamp, Eisenhauer, Förster Schreiber, Genzel, Kurk, Lang, Loose, Lutz, Magnelli, Popesso, Rosario, Saintonge, Sturm, Tacconi, Wisnioski, E. Wuyts, S. Wuyts.

Sternentstehung
Bruderer, Fedele, Karska, van Dishoeck.

Hochenergie-Astrophysik

Athena
Becker, Boller, Brusa, Burkert, Burwitz, Eder, Finoguenov, Freyberg, Friedrich, Haberl, Lechner, Merloni, Mießner, Nandra, Predehl, Schaller, Schopper, Stefanescu, Strüder, Treis, Trümper, Vongehr, Weidenspointner, Winter.

CAST
Bräuninger, Strüder.

Chandra
Burwitz, Predehl.

eROSITA
Andritschke, Bornemann, Bräuninger, Brunner, Budau, Burkert, Burwitz, Dennerl, Eder, Eibl, Freyberg, Friedrich, Fürmetz, Gaida, Granato, Haberl, Hälker, Hartmann, Hartner, Hengmith, F. Huber, H. Huber, Kink, Meidinger, Mican, S. Müller, Nandra, Pfeffermann, Pietschner, Predehl, Rohe, Rommerskirchen, Schmaler, Schreib, Schrey, Strüder, Tiedemann, Winter.

ROSAT
Haberl.

Swift
Burlon, Greiner, Rau, Schady.

XMM-Newton
Boller, Brunner, Brusa, Dennerl, Freyberg, Haberl, Hartner, Meidinger, Pietsch, Predehl, Strüder, Trümper.

Fermi
Collmar, Diehl, Greiner, Gruber, v. Kienlin, A. Rau, Steinle, Strong.

GROND
Elliot, Filgas, Greiner, Olivares, Schady, Schrey, Sudilovsky.

INTEGRAL
Diehl, v. Kienlin, Strong, X.-L. Zhang.

MXT-SVOM
Meidinger, Strüder.

OPTIMA
A. Rau, Schrey, Steinle.

4MOST
Böhringer, Boller, Dwelly, Merloni.

Aktive Galaxien
Boller, Brightman, Burlon, Merloni, Nandra.

Clusters of Galaxies
Böhringer, Chou, Fassbender, Finoguenov, Holland, Nastasi, Pierini, Verdugo, Weißmann, Ziparo.

Cosmic Rays
Strong.

Gamma-Ray Bursts
Burlon, Elliot, Filgas, Greiner, Olivares, A. Rau, Savaglio, Schady, Sudilovsky.

Hochenergie Astrophysik
Braglia, Böhringer, Chon, Faßbender, Giodini, Mois, Nastasi, Pierini, Pratt, Reichert, Santos, Simionescu, Suhada, Verdugo, Ziparo.

Kompakte Objekte
Becker, Burwitz, Greiner, Haberl, Nandra, Ponti, A. Rau.

Nahe Galaxien
Freyberg, Haberl, Henze, Maggi, Pietsch, R. Sturm, Vasilopoulos.

Nukleare Astrophysik
Alexander, Diehl, v. Kienlin, Kretschmer.

Virtual Observatories
Kim, Lemson, Vogler.

Theorie und Komplexe Plasmen

Adaptive Electrode
Antonova, Chauduri, Du, Huber, Morfill, Steffes, H. Thomas.

GEC-Labor
Chauduri, Du, Konopka, Morfill, Nosenko, Pustylnik, Rubin-Zuzic, H. Thomas, Wörner.

Hochfeld-Labor
Bandyopadhyay, Konopka, Morfill, Tarantik, H. Thomas.

PK-3 Plus
Du, Hagl, Heidemann, P. Huber, Ivlev, Konopka, Khrapak, Morfill, Rubin-Zuzic, Schwabe, Sütterlin, Tarantik, H. Thomas, Zhdanov.

PK-4
Albrecht, Antonova, C. Deysenroth, Fink, Hagl, Kretschmer, Mitic, Morfill, Nosenko, Pustylnik, C. Rau, Rubin-Zuzic, Tarantik, Thoma, H. Thomas.

Plasmalab
Chauduri, Du,Hagl, Heidemann, Ivlev, Knapek, Konopka, Mohr, Morfill, Rubin-Zuzic, H. Thomas, Wildgruber, Wörner.

Plasma Medizin
Boxhammer, Bunk, Czempiel, Deckelmann, Jeon, Klämpfl, Köritzer, D. Li, Y. Li, Mitra, Monetti, Morfill, Rosentreter, S. Shimizu, T. Shimizu, Steffes, Taghizadeh, Tarantik, H. Thomas, Yaroshenko, Zimmermann.

Praktikumsversuch “Plasmakristall”
Brandt, Heidemann, Kretschmer, Morfill, Thoma.

Streifenelektrode
Du, Konopka, Y. Li, Morfill, Steffes, H. Thomas.

ERC Grant
Avvisati, Brandt, Ivlev, Morfill, Röcker, Zhadanov.

Nichtlineare Dynamik, Komplexe Systeme
Aschenbrenner, Bauer, Bunk, Modest, Monetti, Müller, Räth, Rosmanit, Scheingraber, Sidorenko.

Optische und Interpretative Astronomie

EUCLID
Bender, Grupp, Saglia.

KMOS
Bender, Saglia.

MICADO
Bender, Saglia, Wilman.

PanSTARRS
Bender, Hopp, Phleps, Saglia, Wilman.

Galaxy Dynamics
Bender, Gerhard, Saglia.

Large Scale Structure
Bender, Fabricius, Phleps, Saglia, Sanchez, Wilman.

Stellare Populationen und Galaxienentstehung
Bender, Hopp, Saglia.

Lehrveranstaltungen / Seminare

IMPRS für Astrophysik (2012), Garching

Boller

IMPRS Advanced Course: AGN Physics (WS 12/13)

Gerhard

Galactic Dynamics and Evolution of Galaxies (WS 11/12)

Merloni

Astrophysical Black Holes (WS 11/12)

LMU München

Becker

Advances in Astronomy (WS 11/12, SS 12, WS 12/13)

Bender

Astrophysikalisches Grundpraktikum (WS 12/13)

Astronomisches Kolloquium (WS 11/12, SS 12, WS 12/13)

Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert, “Tools in modern astrophysics”(SS 12, WS12/13)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert (WS 11/12, SS 12, WS 12/13)

Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert, “Tools in modern astrophysics” (SS 12, WS 12/13)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert (SS 12, WS 12/13)

Ergänzung zur Vorlesung P1.1 “Grundlagen der fortgeschrittenen Astrophysik” (WS 11/12, SS 12)

Forschungsprojekt Masterarbeit, Anleitung zum wissenschaftlichen Arbeiten (SS 12, WS 12/13)

Galaxies, Vorlesung (WS 12/13)

Grundlagen der fortgeschrittenen Astrophysik (Essentials of Advanced Astrophysics), mit Saglia (SS 12)

Projektseminar mit begleitenden Kolloquium „Extragalatic group semi-nar“ (SS 12)

Projektseminar mit begleitenden Kolloquium „Gravitational lensing“ (SS 12, WS 12/13)

Projektseminar mit begleitenden Kolloquium „Galaxies“ (SS 12)

Projektseminar mit begleitenden Kolloquium aus dem Bereich experimenteller Arbeiten und Instrumentenentwicklung in der Astronomie (SS 12, WS 12/13)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich experimenteller Arbeiten, Anleitung zum wissenschaftlichen Arbeiten (SS 12, WS 12/13)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich der Kosmologie, Anleitung zum Wissenschaftlichen Arbeiten (SS 12, WS 12/13)

Gillessen

Astrophysical seminar (WS 11/12, SS 12, WS 12/13)

Raeth

Complex Systems and Fundamentals of Nonlinear Data Analysis (WS 12/13)

Technische Universität München

Eisenhauer

Einführung in die Astrophysik (WS 11/12)

Einführung in die Astrophysik (WS 12/13)

Müller, T.

Überblick über das Sonnensystem, Astrophysik Lehrerfortbildung (SS 12)

Goethe-Universität Frankfurt

Boller, Th.

AGN physics (WS 11/12)

CDM cosmology, Dark Matter and Dark Energy (WS 11/12)

Radiation and Matter (SS 12)

Heinrich-Heine-Universität Düsseldorf

Ivlev

Transport and Dynamics in Complex Fluids (SS 12)

Universität Giessen

Thoma

Theoretische Plasmaphysik (SS 22)

Physik in der Schwerelosigkeit (WS 12/13)

Sigrav Graduate School In Contemporary Relativity And Gravitational Physics

Merloni

Formation And Cosmic Evolution Of Massive Black Holes (WS 11/12)

University College Dublin

Kanbach

‘Imaging & Data’, course in the PRTLI5 Dublin Graduate Physics programme, June 11-15, 2012, Lectures on High Energy Astrophysics (SS 12)

Erlangen Center for Astroparticle Physics

Kanbach

Schule für Astroteilchenphysik, Helmholtz-Allianz für Astroteilchenphysik, 4.-6.10.2012, Obertrubbach, Gammastrahlen-Satelliten-Astronomie (Gamma-Ray Astronomy from Satellites) (WS 12/13)

Organisation von wissenschaftlichen Seminaren / Konferenzen

Hot Planets and Cool Stars, Garching, MPE, 12.-16.11.2012, Organisation: R.P. Saglia.

Gamma-Ray Bursts 2012, Munich, 7.-11.5.2012, Organisation: J. Greiner, A. Rau.

ESO@50 - the first 50 years of ESO, Garching, Germany, 3.-7.9.2012, Organisation: B. Barbuy, X. Barcons, W. Benz, J. Bergeron, E. Daddi, T. de Zeeuw, E. Emsellem, I. Hook, K. Kuijken, B. Leibundgut, M.T. Ruiz, L. Tacconi, M. Tosi, M. West.

Galactic Scale Star Formation, Heidelberg, Germany, 30.7.-3.8.2012, Organisation: F. Bigiel (co-chair), A. Bolatto, B. Elmegreen, S. Glover (co-chair), L. Hartmann, R. Klessen, M. Krumholz, E. Ostriker, L. Tacconi.

IAU Symposium 292: Molecular Gas, Dust, and Star Formation in Galaxies, Beijing, China, 20.-24.8.2012, Organisation: M. Bureau (co-chair), Y. Fukui (co-chair), K. Brooks, L. Bronfman, D. Calzetti, P. Caselli, F. Combes, F. Boulanger, E. de Blok, Y. Gao, M. Krumholz, J. Ott, L. Tacconi, E. Vazquez-Semadeni, T. Wong.

IAU Symposium 295: The Intriguing Life of Massive Galaxies, Beijing, China, 27.-31.8.2012, Organisation: D. Thomas (co-chair), A. Pasquali (co-chair), I. Ferreras (co-chair), R. Davies, A. Dekel, R. Ellis, Y. Jing, X. Kong, S. Mao, E. Peng, A. Renzini, R. Somerville, I. Smail, L. Tacconi, C. Tremonti, X.Z. Zheng.

EWASS 2012 Symposium 1: Molecular Gas in High Redshift Galaxies, Rome, Italy, 2.-3.7.2012, Organisation: C. De Breuck, R. Maiolino (chair), V. Smolcic, L. Tacconi, F. Walter (co-chair).

COSPAR-12-E1.1: "Radio Meets Hard X-rays: Two Skies in Comparison", Mysore, India, 15.-16.7.2012, Organisation: A. Malizia, H. Krimm, A.J. Bird, G. Israel, F. La Franca, A. Marscher, A. Merloni, R. Mushotzky, S.P. Reynolds, G. Romero, J. Sokoloski, P. Ubertini.

eROSITA Consortium Meeting, Hamburg, 23.-24.7.2012, Organisation: J. Robrade, J. Schmitt, P. Predehl, A. Merloni.

Ringberg AGN Workshop, Ringberg Castle, Bavaria, 3.-5.12.2012, Organisation: K. Nandra, S. Faber, D. Kocevski, R. Somerville, M. Salvato, A. Georgakakis, S. Juneau, A. Merloni, A. Koekemoer, M. Brightman.

Large Area Optical Spectroscopic Surveys: Science with 4MOST, AIP, Potsdam, 13.-15.11.2012, Organisation: C. Chiappini, R. De Jong, H. Boehringer, P. Bonifacio, E. Caffau, N. Christlieb, G. Dalton, S. Feltzing, P. Francois, E. Grebel, A. Helmi, M. Irwin, F. Kitaura, A. Koch, A. Korn, H.G. Ludwig, A. Merloni, I. Minchev, O. Schnurr, A. Schwope, M. Steinmetz, S. Trager, J. Walcher, N.A. Walton .

Gemini North Adaptive Optics Workshop, Victoria, Canada, 19.-21.6.2012, Organisation: D. Andersen, J. Christou, D. Crampton, R. Davies, C. Marois, P. McGregor, S. Oya, C. Packham, H. Roe.

ISM Splinter Meeting at the Meeting of the Astronomical Society, Hamburg, 25.-26.9.2012, Organisation: M. Schartmann, A. Burkert.

ISM-SPP school: The Physics of the ISM, Freising, 1.-5.10.2012, Organisation: M. Schartmann, A. Burkert, K. Fierlinger.

Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy VI, Amsterdam, 3.-6.7.2012, Organisation: W. Holland, J. Zmuidzinas, A. Poglitsch, A. Murphy, C. Walker, K. Irwin, J.R. Gao, K. Schuster, G. Stacey.

9th Potsdam Thinkshop 2012 - Galaxy Surveys using Integral Field Spectroscopy: Achievements and Opportunities, Potsdam, Germany, 10.-13.9.2012, Organisation: K. Bundy, S. Croom, E. Emsellem, N.M. Förster Schreiber, G. Kauffmann, G. Hill, A. Moiseev, B. Nichol, M. Roth, J. Walcher.

Publikationen

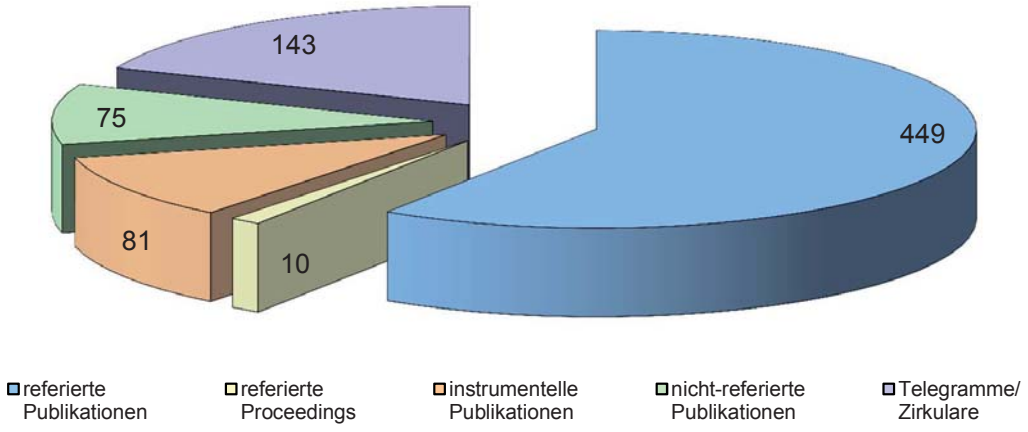
Hier präsentieren wir eine tabularische und graphische Zusammenfassung unserer Veröffentlichungen aus 2012. Die Veröffentlichungen werden nach wissenschaftlicher Arbeitsgruppe und Publikationstyp gezählt. Die Gesamtliste unserer Publikationen aus den verschiedenen Kategorien ist nachfolgend aufgeführt.

Summe der MPE Publikationen in 2012

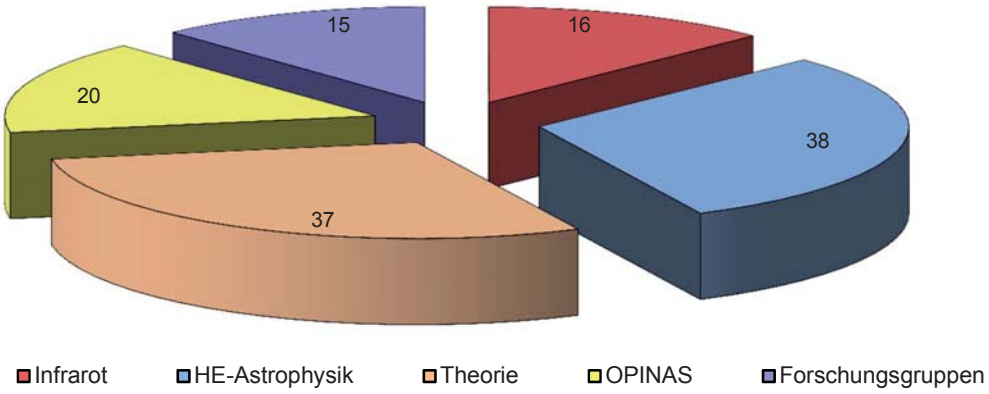
Wissenschaftl. Arbeitsgruppe	referierte Publikationen	referierte Proceedings	Instrument. Publikationen	nicht-referierte Publikationen	Telegramme/ Zirkulare	Vorträge	Poster
IR	16 (105)	0 (0)	9 (25)	8 (26)	3 (9)	117 (153)	5
HE Astrophysik	38 (187)	6 (7)	15 (35)	16 (32)	81 (129)	63 (107)	27
Theorie	37 (58)	3 (3)	0 (0)	3 (5)	0 (0)	20 (63)	19
OPINAS	20 (70)	0 (0)	8 (21)	4 (10)	0 (5)	29 (42)	1
Forschungs-gruppen	15 (29)	0 (0)	0 (0)	0 (2)	0 (0)	4 (8)	2
Insgesamt	126 (449)	9 (10)	32 (81)	31 (75)	84 (143)	233 (373)	54

Die Zahlen geben die Anzahl der Publikationen mit einem Erstautor vom MPE beziehungsweise die Anzahl der eingeladenen (bei Konferenzen und zu Kolloquien) Vorträge an. Die roten Zahlen in Klammern zeigen die Gesamtzahl der Veröffentlichungen mit MPE-Autorenschaft (inklusive MPE Erstautoren) beziehungsweise die Gesamtzahl der gehaltenen Vorträge. Veröffentlichungen mit Beteiligung aus mehreren Arbeitsgruppen sind bei der Gruppe des führenden Autors gezählt. Bei Postern wurden nur MPE Erstautorenschaften berücksichtigt.

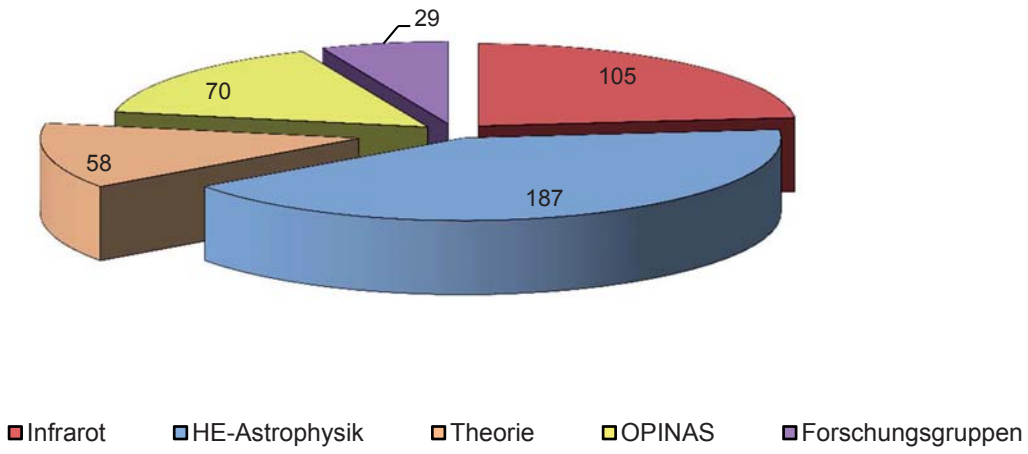
MPE Publikationen 2012 (nach Typ)

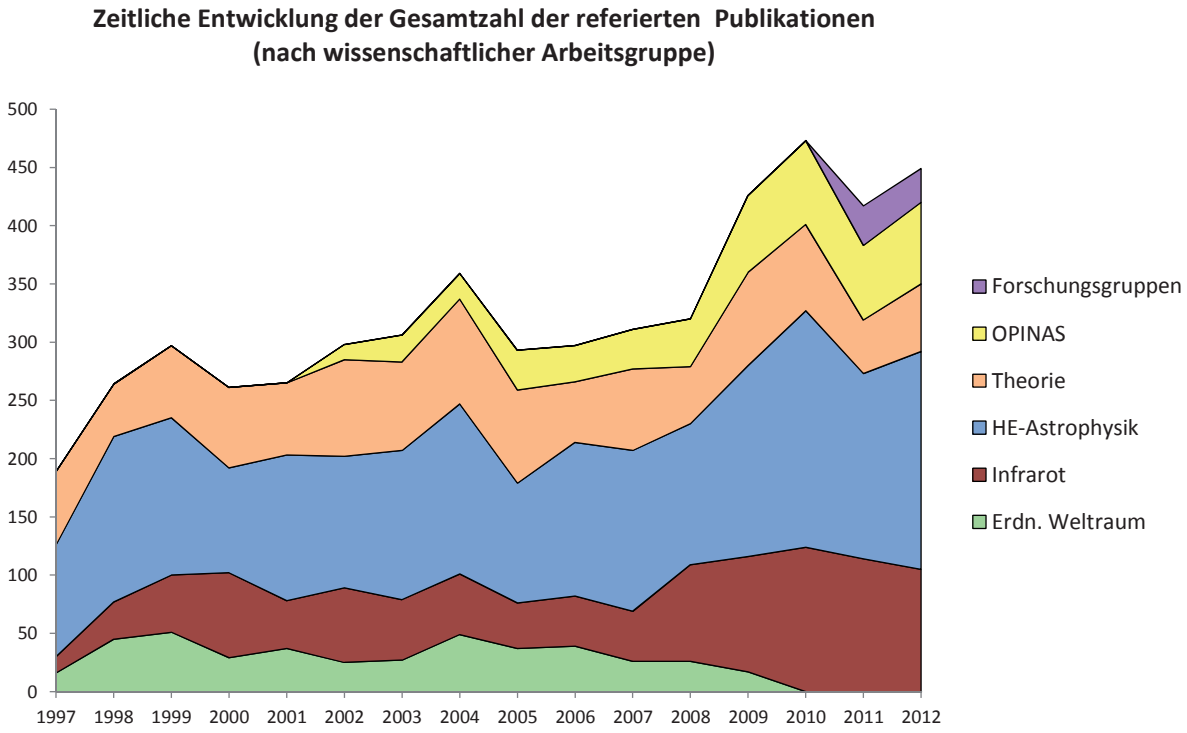


Referierte Publikationen mit MPE Erstautor in 2012
(nach wissenschaftlicher Arbeitsgruppe)



Gesamtzahl der referierten MPE Publikationen in 2012
(nach wissenschaftlicher Arbeitsgruppe)




Zeitliche Entwicklung der Gesamtzahl der referierten Publikationen
(nach wissenschaftlicher Arbeitsgruppe)
500
450
400
350
300
250
200
150
100
50
0
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
Forschungsgruppen
OPINAS
Theorie
HE-Astrophysik
Infrarot
Erdn. Weltraum

Referierte Publikationen

Abadie, J., B.P. Abbott, R. Abbott, ..., A. von Kienlin, A. Rau, and X.-L. Zhang: Search for Gravitational Waves Associated with Gamma-Ray Bursts during LIGO Science Run 6 and Virgo Science Runs 2 and 3. Ap. J. 760, 12 (2012).

Ackermann, M., M. Ajello, A. Albert, …, A.W. Strong, et al.: Anisotropies in the diffuse gamma-ray background measured by the Fermi LAT. Physical Review D 85, 083007 (2012).

Ackermann, M., M. Ajello, A. Albert, …, A.W. Strong, et al.: Publisher's Note: Anisotropies in the diffuse gamma-ray background measured by the Fermi LAT [Phys. Rev. D 85, 083007 (2012)]. Physical Review D 85, 109901 (2012).

Ackermann, M., M. Ajello, A. Allafort, …, A.W. Strong, et al.: Gamma-Ray Observations of the Orion Molecular Clouds with the Fermi Large Area Telescope. Ap. J. 756, 4 (2012).

Ackermann, M., M. Ajello, A. Allafort, …, A.W. Strong, et al.: GeV Observations of Star-forming Galaxies with the Fermi Large Area Telescope. Ap. J. 755, 164 (2012).

Ackermann, M., M. Ajello, A. Allafort, …, A.W. Strong, et al.: The cosmic-ray and gas content of the Cygnus region as measured in γ-rays by the Fermi Large Area Telescope. Astron. Astrophys. 538, A71 (2012).

Ackermann, M., M. Ajello, A. Allafort, …, A.W. Strong, et al.: Search for Gamma-ray Emission from X-Ray-selected Seyfert Galaxies with Fermi-LAT. Ap. J. 747, 104 (2012).

Ackermann, M., M. Ajello, A. Allafort, …, A.W. Strong, et al.: Fermi Large Area Telescope Study of Cosmic Rays and the Interstellar Medium in nearby Molecular Clouds. Ap. J. 755, 22 (2012).

Ackermann, M., M. Ajello, A. Allafort, P. Schady, …, A. Rau, et al.: The Imprint of the Extragalactic Background Light in the Gamma-Ray Spectra of Blazars. Science 338, 1190- (2012).

Ackermann, M., M. Ajello, A. Allafort, …, A.W. Strong, et al.: Measurement of Separate Cosmic-Ray Electron and Positron Spectra with the Fermi Large Area Telescope. Phys. Rev. Lett. 108, 011103 (2012).

Ackermann, M., M. Ajello, A. Allafort, …, A. von Kienlin, et al.: Fermi Detection of γ-Ray Emission from the M2 Soft X-Ray Flare on 2010 June 12. Ap. J. 745, 144 (2012).

Ackermann, M., M. Ajello, W.B. Atwood, …, A.W. Strong, et al.: Constraints on the Galactic Halo Dark Matter from Fermi-LAT Diffuse Measurements. Ap. J. 761, 91 (2012).

Ackermann, M., M. Ajello, W.B. Atwood, …, A.W. Strong, et al.: Fermi-LAT Observations of the Diffuse γ-Ray Emission: Implications for Cosmic Rays and the Interstellar Medium. Ap. J. 750, 3 (2012).

Ackermann, M., M. Ajello, L. Baldini, …, S. Foley, D. Gruber, ..., A. Rau, …, A. von Kienlin, et al.: Constraining the High-energy Emission from Gamma-Ray Bursts with Fermi. Ap. J. 754, 121 (2012).

Adams, J.J., K. Gebhardt, G.A. Blanc, M.H. Fabricius, G.J. Hill, J.D. Murphy, R.C.E. van den Bosch and G. van de Ven: The Central Dark Matter Distribution of NGC 2976. Ap. J. 745, 92 (2012).

Agarwal, B., S. Khochfar, J.L. Johnson, E. Neistein, C. Dalla Vecchia and M. Livio: Ubiquitous seeding of supermassive black holes by direct collapse. Mon. Not. R. Astron. Soc. 425, 2854-2871 (2012).

Aghanim, N., M. Arnaud, M. Ashdown, ..., H. Böhringer, et al.: Planck intermediate results. I. Further validation of new Planck clusters with XMM-Newton. Astron. Astrophys. 543, A102 (2012).

Ahn, C.P., R. Alexandroff, C. Allende Prieto, …, A. Beifiori, …, F. Montesano, …, A.G. Sanchez, et al.: The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey. Ap. J. Supp. Ser. 203, 21 (2012).

Ajello, M., D.M. Alexander, J. Greiner, G.M. Madejski, N. Gehrels and D. Burlon: The 60 Month All-sky Burst Alert Telescope Survey of Active Galactic Nucleus and the Anisotropy of nearby AGNs. Ap. J. 749, 21 (2012).

Akylas, A., A. Georgakakis, I. Georgantopoulos, M. Brightman and K. Nandra: Constraining the fraction of Compton-thick AGN in the Universe by modelling the diffuse X-ray background spectrum. Astron. Astrophys. 546, A98 (2012).

Alexander, F. and T. Preibisch: X-ray activity and rotation of the young stars in IC 348. Astron. Astrophys. 539, A64 (2012).

Allevato, V., A. Finoguenov, G. Hasinger, T. Miyaji, N. Cappelluti, M. Salvato, G. Zamorani, R. Gilli, M.R. George, M. Tanaka, M. Brusa, J. Silverman, F. Civano, M. Elvis and F. Shankar: Occupation of X-Ray-selected Galaxy Groups by X-Ray Active Galactic Nuclei. Ap. J. 758, 47 (2012).

Amigo, J.M., R. Monetti, T. Aschenbrenner and W. Bunk: Transcripts: An algebraic approach to coupled time series. Chaos 22, 013105, (2012).

Anderson, L., E. Aubourg, S. Bailey, ..., A.G. Sánchez et al.: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Release 9 spectroscopic galaxy sample. Mon. Not. R. Astron. Soc. 427, 3435-3467 (2012).

Antonova, T., C.-R. Du, A.V. Ivlev, B.M. Annaratone, L.-J. Hou, R. Kompaneets, H.M. Thomas and G.E. Morfill: Microparticles deep in the plasma sheath: Coulomb "explosion". Phys. Plasmas 19, 093709 (2012).

Aquila, A., M.S. Hunter, R.B. Doak, R.A. Kirian, P. Fromme, T.A. White, J. Andreasson, D. Arnlund, S. Bajt, T.R.M. Barends, M. Barthelmess, M.J. Bogan, C. Bostedt, H. Bottin, J.D. Bozek, C. Caleman, N. Coppola, J. Davidsson, D.P. Deponte, V. Elser, S.W. Epp, B. Erk, H. Fleckenstein, L. Foucar, M. Frank, R. Fromme, H. Graafsma, I. Grotjohann, L. Gumprecht, J. Hajdu, C.Y. Hampton, A. Hartmann, R. Hartmann, S. Hau-Riege, G. Hauser, H. Hirse-

mann, P. Holl, J.M. Holton, A. Hömke, L. Johansson, N. Kimmel, S. Kassemeyer, F. Krasniqi, K.-U. Kühnel, M. Liang, L. Lomb, E. Malmerberg, S. Marchesini, A.V. Martin, F.R.N.C. Maia, M. Messerschmidt, K. Nass, C. Reich, R. Neutze, D. Rolles, B. Rudek, A. Rudenko, I. Schlichting, C. Schmidt, K.E. Schmidt, J. Schulz, M.M. Seibert, R.L. Shoeman, R. Sierra, H. Soltau, D. Starodub, F. Stellato, S. Stern, L. Strüder, N. Timneanu, J. Ullrich, X. Wang, G.J. Williams, G. Weidenspointner, U. Weierstall, C. Wunderer, A. Barty, J.C.H. Spence and H.N. Chapman: Time-resolved protein nanocrystallography using an X-ray free-electron laser. Optics Express 20, 2706 (2012).

Aravena, M., C.L. Carilli, M. Salvato, M. Tanaka, L. Lentati, E. Schinnerer, F. Walter, D. Riechers, V. Smolcić, P. Capak, H. Aussel, F. Bertoldi, S.C. Chapman, D. Farrah, A. Finoguenov, E. Le Floc'h, D. Lutz, G. Magdis, S. Oliver, L. Riguccini, S. Berta, B. Magnelli and F. Pozzi: Deep observations of CO line emission from star-forming galaxies in a cluster candidate at z=1.5. Mon. Not. R. Astron. Soc. 426, 258-275 (2012).

Arnaboldi, M., G. Ventimiglia, E. Iodice, O. Gerhard and L. Coccato: A tale of two tails and an off-centered envelope: diffuse light around the cD galaxy NGC 3311 in the Hydra I cluster. Astron. Astrophys. 545, A37 (2012).

Axelsson, M., L. Baldini, G. Barbiellini, M.G..., A. von Kienlin, et al.: GRB110721A: An Extreme Peak Energy and Signatures of the Photosphere. Ap. J. Lett. 757, L31 (2012).

Bai, Y., Y.-C. Sun, X.-T. He, Y. Chen, J.-H. Wu, Q.-K. Li, R.F. Green and W. Voges: M dwarf stars - the by-product of X-ray selected AGN candidates. Research in Astronomy and Astrophysics 12, 443-452 (2012).

Balaguera-Antolínez, A., A.G. Sánchez, H. Böhringer and C. Collins: Constructing mock catalogues for the REFLEX II galaxy cluster sample. Mon. Not. R. Astron. Soc. 425, 2244-2254 (2012).

Baldi, A., S. Ettori, S. Molendi, I. Balestra, F. Gastaldello and P. Tozzi: An XMM-Newton spatially-resolved study of metal abundance evolution in distant galaxy clusters. Astron. Astrophys. 537, A142 (2012).

Banerjee, D., M.S. Janaki, N. Chakrabarti and M. Chaudhuri: Nonlinear shear wave in a non Newtonian visco-elastic medium. Phys. Plasmas 19, 062301, 1-4 (2012).

Banzatti, A., M.R. Meyer, S. Bruderer, V. Geers, I. Pascucci, F. Lahuis, A. Juhász, T. Henning and P. Ábrahám: EX Lupi from Quiescence to Outburst: Exploring the LTE Approach in Modeling Blended H2O and OH Mid-infrared Emission. Ap. J. 745, 90 (2012).

Barber, J.A., H. Zhao, X. Wu and S.H. Hansen: Stirring N-body systems: universality of end states. Mon. Not. R. Astron. Soc. 424, 1737-1751 (2012).

Bartlett, E.S., M.J. Coe, F. Haberl, V.A. McBride and R.H.D. Corbet: The search for high-mass X-ray binaries in the Phoenix dwarf galaxy. Mon. Not. R. Astron. Soc. 422, 2302-2313 (2012).

Barty, A., C. Caleman, A. Aquila, N. Timneanu, L. Lomb, T.A. White, J. Andreasson, D. Arnlund, S. Bajt, T.R.M. Barends, M. Barthelmess, M.J. Bogan, C. Bostedt, J.D. Bozek, R. Coffee, N. Coppola, J. Davidsson, D.P. Deponte, R.B. Doak, T. Ekeberg, V. Elser, S.W. Epp, B. Erk, H. Fleckenstein, L. Foucar, P. Fromme, H. Graafsma, L. Gumprecht, J. Hajdu, C.Y. Hampton, R. Hartmann, A. Hartmann, G. Hauser, H. Hirsemann, P. Holl, M.S. Hunter, L. Johansson, S. Kassemeyer, N. Kimmel, R.A. Kirian, M. Liang, F.R.N.C. Maia, E. Malmerberg, S. Marchesini, A.V. Martin, K. Nass, R. Neutze, C. Reich, D. Rolles, B. Rudek, A. Rudenko, H. Scott, I. Schlichting, J. Schulz, M.M. Seibert, R.L. Shoeman, R.G. Sierra, H. Soltau, J.C.H. Spence, F. Stellato, S. Stern, L. Strüder, J. Ullrich, X. Wang, G. Weidenspointner, U. Weierstall, C.B. Wunderer and H.N. Chapman: Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. Nature Photonics 6, 35-40 (2012).

Barucci, M.A., F. Merlin, D. Perna, A. Alvarez-Candal, T. Müller, M. Mommert, C. Kiss, S. Fornasier, P. Santos-Sanz and E. Dotto: The extra red plutino (55638) 2002 VE_{95}. Astron. Astrophys. 539, A152 (2012).

Basa, S., J.G. Cuby, S. Savaglio, S. Boissier, B. Clément, H. Flores, D. Le Borgne and A. Mazure: Constraining the nature of the most distant gamma-ray burst host galaxies. Astron. Astrophys. 542, A103 (2012).

Baum, T., Y. Dutsch, D. Mueller, R. Monetti, I. Sidorenko, C. Raeth, E.J. Rummeny, T.M. Link and J.S. Bauer: Reproducibility of Trabecular Bone Structure Measurements of the Distal Radius at 1.5 and 3.0 T Magnetic Resonance Imaging. Journal of Computer Assisted Tomography 36, 623-626 (2012).

Becker, W., T. Prinz, P.F. Winkler and R. Petre: The Proper Motion of the Central Compact Object RX J0822-4300 in the Supernova Remnant Puppis A. Ap. J. 755, 141 (2012).

Beifiori, A., S. Courteau, E.M. Corsini and Y. Zhu: On the correlations between galaxy properties and supermassive black hole mass. Mon. Not. R. Astron. Soc. 419, 2497-2528 (2012).

Bell, E.F., A. van der Wel, C. Papovich, D. Kocevski, J. Lotz, D.H. McIntosh, J. Kartaltepe, S.M. Faber, H. Ferguson, A. Koekemoer, N. Grogin, S. Wuyts, E. Cheung, C.J. Conselice, A. Dekel, J.S. Dunlop, M. Giavalisco, J. Herrington, D.C. Koo, E.J. McGrath, D. de Mello, H.-W. Rix, A.R. Robaina and C.C. Williams: What Turns Galaxies Off? The Different Morphologies of Star-forming and Quiescent Galaxies since z ~ 2 from CANDELS. Ap. J. 753, 167 (2012).

Beuermann, K., V. Burwitz and K. Reinsch: A new soft X-ray spectral model for polars with an application to AM Herculis. Astron. Astrophys. 543, A41 (2012).

Bhat, P.N., M.S. Briggs, V. Connaughton, C. Kouveliotou, A.J. van der Horst, W. Paciesas, C.A. Meegan, E. Bissaldi, M. Burgess, V. Chaplin, R. Diehl, G. Fishman, G. Fitzpatrick, S. Foley, M. Gibby, M.M. Giles, A. Goldstein, J. Greiner, D. Gruber, S. Guiriec, A. von Kienlin, M. Kippen, S. McBreen, R. Preece, A. Rau, D. Tierney and C. Wilson-Hodge: Temporal Deconvolution Study of Long and Short Gamma-Ray Burst Light Curves. Ap. J. 744, 141 (2012).

Bianchi, S., F. Panessa, X. Barcons, F.J. Carrera, F. La Franca, G. Matt, F. Onori, A. Wolter, A. Corral, L. Monaco, Á. Ruiz and M. Brightman: Simultaneous X-ray and optical

observations of true type 2 Seyfert galaxies. Mon. Not. R. Astron. Soc. 426, 3225-3240 (2012).

Bielby, R., P. Hudelot, H.J. McCracken, O. Ilbert, E. Daddi, O. Le Fèvre, V. Gonzalez-Perez, J.-P. Kneib, C. Marmo, Y. Mellier, M. Salvato, D.B. Sanders and C.J. Willott: The WIRCam Deep Survey. I. Counts, colours, and mass-functions derived from near-infrared imaging in the CFHTLS deep fields. Astron. Astrophys. 545, A23 (2012).

Biffi, V., K. Dolag, H. Böhringer and G. Lemson: Observing simulated galaxy clusters with PHOX: a novel X-ray photon simulator. Mon. Not. R. Astron. Soc. 420, 3545-3556 (2012).

Birkby, J., B. Nefs, S. Hodgkin, G. Kovács, B. Sipöcz, D. Pinfield, I. Snellen, D. Mislis, F. Murgas, N. Lodieu, E. de Mooij, N. Goulding, P. Cruz, H. Stoev, M. Cappetta, E. Palle, D. Barrado, R. Saglia, E. Martin and Y. Pavlenko: Discovery and characterization of detached M dwarf eclipsing binaries in the WFCAM Transit Survey. Mon. Not. R. Astron. Soc. 426, 1507-1532 (2012).

Bjerkeli, P., R. Liseau, B. Larsson, G. Rydbeck, B. Nisini, M. Tafalla, S. Antoniucci, M. Benedettini, P. Bergman, S. Cabrit, T. Giannini, G. Melnick, D. Neufeld, G. Santangelo and E.F. van Dishoeck: H_2O line mapping at high spatial and spectral resolution. Herschel observations of the VLA 1623 outflow. Astron. Astrophys. 546, A29 (2012).

Bleem, L.E., A. van Engelen, G.P. Holder, ..., J.J. Mohr, et al.: A Measurement of the Correlation of Galaxy Surveys with CMB Lensing Convergence Maps from the South Pole Telescope. Ap. J. Lett. 753, L9 (2012).

Bloom, J.S., D. Kasen, K.J. Shen, P.E. Nugent, N.R. Butler, M.L. Graham, D.A. Howell, U. Kolb, S. Holmes, C.A. Haswell, V. Burwitz, J. Rodriguez and M. Sullivan: A Compact Degenerate Primary-star Progenitor of SN 2011fe. Ap. J. Lett. 744, L17 (2012).

Bodewits, D., D.J. Christian, J.A. Carter, K. Dennerl, I. Ewing, R. Hoekstra, S.T. Lepri, C.M. Lisse and S.J. Wolk: Cometary charge exchange diagnostics in UV and X-ray. Astron. Nachr. 333, 335 (2012).

Bongiorno, A., A. Merloni, M. Brusa, B. Magnelli, M. Salvato, M. Mignoli, G. Zamorani, F. Fiore, D. Rosario, V. Mainieri, H. Hao, A. Comastri, C. Vignali, I. Balestra, S. Bardelli, S. Berta, F. Civano, P. Kampczyk, E. Le Floc'h, E. Lusso, D. Lutz, L. Pozzetti, F. Pozzi, L. Riguccini, F. Shankar and J. Silverman: Accreting supermassive black holes in the COSMOS field and the connection to their host galaxies. Mon. Not. R. Astron. Soc. 427, 3103-3133 (2012).

Bongiorno, A., F. Shankar, F. Civano, I. Gavignaud and A. Georgakakis: Seeking for the Leading Actor on the Cosmic Stage: Galaxies versus Supermassive Black Holes. Adv. Astron. 2012, -not- (2012).

Bonzini, M., V. Mainieri, P. Padovani, K.I. Kellermann, N. Miller, P. Rosati, P. Tozzi, S. Vattakunnel, I. Balestra, W.N. Brandt, B. Luo and Y.Q. Xue: The Sub-mJy Radio Population of the E-CDFS: Optical and Infrared Counterpart Identification. Ap. J. Supp. Ser. 203, 15 (2012).

Booth, C.M., J. Schaye, J.D. Delgado and C. Dalla Vecchia: The filling factor of intergalactic metals at redshift z= 3. Mon. Not. R. Astron. Soc. 420, 1053-1060 (2012).

Bottacini, E., M. Ajello and J. Greiner: The Deep Look at the Hard X-Ray Sky: The Swift-INTEGRAL X-Ray (SIX) Survey. Ap. J. Supp. Ser. 201, 34 (2012).

Bouché, N., M.T. Murphy, C. Péroux, T. Contini, C.L. Martin, N.M. Forster Schreiber, R. Genzel, D. Lutz, S. Gillessen, L. Tacconi, R. Davies and F. Eisenhauer: Enriched haloes at redshift z = 2 with no star formation: implications for accretion and wind scenarios. Mon. Not. R. Astron. Soc. 419, 2-13 (2012).

Boxhammer, V., G.E. Morfill, J.R. Jokipii, T. Shimizu, T. Klämpfl, Y.-F. Li, J. Köritzer, J. Schlegel and J.L. Zimmermann: Bactericidal action of cold atmospheric plasma in solution. New J. Phys. 14, 113042 (2012).

Bozzetto, L.M., M.D. Filipović, E.J. Crawford, F. Haberl, M. Sasaki, D. Urošević, W. Pietsch, J.L. Payne, A.Y. de Horta, M. Stupar, N.F.H. Tothill, J. Dickel, Y.-H. Chu and R. Gruendl: Multifrequency study of the Large Magellanic Cloud supernova remnant J0529-6653 near pulsar B0529-66. Mon. Not. R. Astron. Soc. 420, 2588-2595 (2012).

Braig, C. and P. Predehl: Toward the diffraction limit with transmissive x-ray lenses in astronomy. Applied Optics 51, 4638 (2012).

Brammer, G.B., P.G. van Dokkum, M. Franx, M. Fumagalli, S. Patel, H.-W. Rix, R.E. Skelton, M. Kriek, E. Nelson, K.B. Schmidt, R. Bezanson, E. da Cunha, D.K. Erb, X. Fan, N. Förster Schreiber, G.D. Illingworth, I. Labbé, J. Leja, B. Lundgren, D. Magee, D. Marchesini, P. McCarthy, I. Momcheva, A. Muzzin, R. Quadri, C.C. Steidel, T. Tal, D. Wake, K.E. Whitaker and A. Williams: 3D-HST: A Wide-field Grism Spectroscopic Survey with the Hubble Space Telescope. Ap. J. Supp. Ser. 200, 13 (2012).

Brightman, M. and K. Nandra: X-ray colour-colour selection for heavily absorbed active galactic nuclei. Mon. Not. R. Astron. Soc. 422, 1166-1170 (2012).

Brightman, M. and Y. Ueda: The evolution of the Compton thick fraction and the nature of obscuration for active galactic nuclei in the Chandra Deep Field South. Mon. Not. R. Astron. Soc. 423, 702-717 (2012).

Brown, J.M., G.J. Herczeg, K.M. Pontoppidan and E.F. van Dishoeck: A 30 AU Radius CO Gas Hole in the Disk around the Herbig Ae Star Oph IRS 48. Ap. J. 744, 116 (2012).

Brown, J.M., K.A. Rosenfeld, S.M. Andrews, D.J. Wilner and E.F. van Dishoeck: Matryoshka Holes: Nested Emission Rings in the Transitional Disk Oph IRS 48. Ap. J. Lett. 758, L30 (2012).

Brownstein, J.R., A.S. Bolton, D.J. Schlegel, D.J. Eisenstein, C.S. Kochanek, N. Connolly, C. Maraston, P. Pandey, S. Seitz, D.A. Wake, W.M. Wood-Vasey, J. Brinkmann, D.P. Schneider, B.A. Weaver: The BOSS Emission-Line Lens Survey (BELLS). I. A Large Spectroscopically Selected Sample of Lens Galaxies at Redshift ~0.5. Ap. J. 744 (2012).

Bruderer, S., E.F. van Dishoeck, S.D. Doty and G.J. Herczeg: The warm gas atmosphere of the HD 100546 disk seen by Herschel. Evidence of a gas-rich, carbon-poor at-

mosphere?. Astron. Astrophys. 541, A91 (2012).

Bryan, S.E., S. Mao, S.T. Kay, J. Schaye, C. Dalla Vecchia and C.M. Booth: Influence of baryons on the orbital structure of dark matter haloes. Mon. Not. R. Astron. Soc. 422, 1863-1879 (2012).

Bufano, F., E. Pian, J. Sollerman, S. Benetti, G. Pignata, S. Valenti, S. Covino, P. D'Avanzo, D. Malesani, E. Cappellaro, M. Della Valle, J. Fynbo, J. Hjorth, P.A. Mazzali, D.E. Reichart, R.L.C. Starling, M. Turatto, S.D. Vergani, K. Wiersema, L. Amati, D. Bersier, S. Campana, Z. Cano, A.J. Castro-Tirado, G. Chincarini, V. D'Elia, A. de Ugarte Postigo, J. Deng, P. Ferrero, A.V. Filippenko, P. Goldoni, J. Gorosabel, J. Greiner, F. Hammer, P. Jakobsson, L. Kaper, K.S. Kawabata, S. Klose, A.J. Levan, K. Maeda, N. Masetti, B. Milvang-Jensen, F.I. Mirabel, P. Møller, K. Nomoto, E. Palazzi, S. Piranomonte, R. Salvaterra, G. Stratta, G. Tagliaferri, M. Tanaka, N.R. Tanvir and R.A.M.J. Wijers: The Highly Energetic Expansion of SN 2010bh Associated with GRB 100316D. Ap. J. 753, 67 (2012).

Burgess, D., E. Möbius and M. Scholer: Ion Acceleration at the Earth's Bow Shock, Space Science Rev. 173, 5-47 (2012).

Burkert, A., M. Schartmann, C. Alig, S. Gillessen, R. Genzel, T.K. Fritz and F. Eisenhauer: Physics of the Galactic Center Cloud G2, on Its Way toward the Supermassive Black Hole. Ap. J. 750, 58 (2012).

Béthermin, M., E. Le Floc'h, O. Ilbert, A. Conley, G. Lagache, A. Amblard, V. Arumugam, H. Aussel, S. Berta, J. Bock, A. Boselli, V. Buat, C.M. Casey, N. Castro-Rodríguez, A. Cava, D.L. Clements, A. Cooray, C.D. Dowell, S. Eales, D. Farrah, A. Franceschini, J. Glenn, M. Griffin, E. Hatziminaoglou, S. Heinis, E. Ibar, R.J. Ivison, J.S. Kartaltepe, L. Levenson, G. Magdis, L. Marchetti, G. Marsden, H.T. Nguyen, B. O'Halloran, S.J. Oliver, A. Omont, M.J. Page, P. Panuzzo, A. Papageorgiou, C.P. Pearson, I. Pérez-Fournon, M. Pohlen, D. Rigopoulou, I.G. Roseboom, M. Rowan-Robinson, M. Salvato, B. Schulz, D. Scott, N. Seymour, D.L. Shupe, A.J. Smith, M. Symeonidis, M. Trichas, K.E. Tugwell, M. Vaccari, I. Valtchanov, J.D. Vieira, M. Viero, L. Wang, C.K. Xu and M. Zemcov: HerMES: deep number counts at 250 μm, 350 μm and 500 μm in the COSMOS and GOODS-N fields and the build-up of the cosmic infrared background. Astron. Astrophys. 542, A58 (2012).

Böhringer, H., K. Dolag and G. Chon: Modelling self-similar appearance of galaxy clusters in X-rays. Astron. Astrophys. 539, A120 (2012).

Calus, S., D. Rau, P. Huber and A.V. Kityk: Influence of nanoconfinement on the nematic behavior of liquid crystals. Physical Review E 86, 021701 (2012).

Capelli, R., R.S. Warwick, D. Porquet, S. Gillessen and P. Predehl: The X-ray lightcurve of Sagittarius A* over the past 150 years inferred from Fe-Kα line reverberation in Galactic centre molecular clouds. Astron. Astrophys. 545, A35 (2012).

Cappellari, M., R.M. McDermid, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, A.F. Crocker, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: Systematic variation of the stellar initial mass function in early-type galaxies. Nature 484, 485-488 (2012).

Cappelluti, N., P. Ranalli, M. Roncarelli, P. Arevalo, G. Zamorani, A. Comastri, R. Gilli, E. Rovilos, C. Vignali, V. Allevato, A. Finoguenov, T. Miyaji, F. Nicastro, I. Georgantopoulos and A. Kashlinsky: The nature of the unresolved extragalactic cosmic soft X-ray background. Mon. Not. R. Astron. Soc. 427, 651-663 (2012).

Cappelluti, N., V. Allevato and A. Finoguenov: Clustering of X-Ray-Selected AGN. Adv. Astron. 2012, -not- (2012).

Cappetta, M., R.P. Saglia, J.L. Birkby, J. Koppenhoefer, D.J. Pinfield, S.T. Hodgkin, P. Cruz, G. Kovács, B. Sipöcz, D. Barrado, B. Nefs, Y.V. Pavlenko, L. Fossati, C. del Burgo, E.L. Martín, I. Snellen, J. Barnes, A. Bayo, D.A. Campbell, S. Catalan, M.C. Gálvez-Ortiz, N. Goulding, C. Haswell, O. Ivanyuk, H.R. Jones, M. Kuznetsov, N. Lodieu, F. Marocco, D. Mislis, F. Murgas, R. Napiwotzki, E. Palle, D. Pollacco, L. Sarro Baro, E. Solano, P. Steele, H. Stoev, R. Tata and J. Zendejas: The first planet detected in the WTS: an inflated hot Jupiter in a 3.35 d orbit around a late F star. Mon. Not. R. Astron. Soc. 427, 1877-1890 (2012).

Carry, B., M. Kaasalainen, W.J. Merline, T.G. Müller, et al.: Shape modeling technique KOALA validated by ESA Rosetta at (21) Lutetia. Planet. Space Sci. 66, 200-212 (2012).

Caselli, P., E. Keto, E.A. Bergin, M. Tafalla, Y. Aikawa, T. Douglas, L. Pagani, U.A. Yíldíz, F.F.S. van der Tak, C.M. Walmsley, C. Codella, B. Nisini, L.E. Kristensen and E.F. van Dishoeck: First Detection of Water Vapor in a Pre-stellar Core. Ap. J. Lett. 759, L37 (2012).

Casey, C.M., S. Berta, M. Béthermin, J. Bock, C. Bridge, D. Burgarella, E. Chapin, S.C. Chapman, D.L. Clements, A. Conley, C.J. Conselice, A. Cooray, D. Farrah, E. Hatziminaoglou, R.J. Ivison, E. le Floc'h, D. Lutz, G. Magdis, B. Magnelli, S.J. Oliver, M.J. Page, F. Pozzi, D. Rigopoulou, L. Riguccini, I.G. Roseboom, D.B. Sanders, D. Scott, N. Seymour, I. Valtchanov, J.D. Vieira, M. Viero and J. Wardlow: A Population of z > 2 Far-infrared Herschel-SPIRE-selected Starbursts. Ap. J. 761, 139 (2012).

Casey, C.M., S. Berta, M. Béthermin, J. Bock, C. Bridge, J. Budynkiewicz, D. Burgarella, E. Chapin, S.C. Chapman, D.L. Clements, A. Conley, C.J. Conselice, A. Cooray, D. Farrah, E. Hatziminaoglou, R.J. Ivison, E. le Floc'h, D. Lutz, G. Magdis, B. Magnelli, S.J. Oliver, M.J. Page, F. Pozzi, D. Rigopoulou, L. Riguccini, I.G. Roseboom, D.B. Sanders, D. Scott, N. Seymour, I. Valtchanov, J.D. Vieira, M. Viero and J. Wardlow: A Redshift Survey of Herschel Far-infrared Selected Starbursts and Implications for Obscured Star Formation. Ap. J. 761, 140 (2012).

Catinella, B., G. Kauffmann, D. Schiminovich, J. Lemonias, C. Scannapieco, J. Wang, S. Fabello, C. Hummels, S.M. Moran, R. Wu, A.P. Cooper, R. Giovanelli, M.P. Haynes, T.M. Heckman and A. Saintonge: The GALEX Arecibo SDSS Survey - IV. Baryonic mass-velocity-size relations of massive galaxies. Mon. Not. R. Astron. Soc. 420, 1959-1976 (2012).

Cenko, S.B., H.A. Krimm, A. Horesh, A. Rau, D.A. Frail, J.A. Kennea, A.J. Levan, S.T. Holland, N.R. Butler, R.M. Quimby, J.S. Bloom, A.V. Filippenko, A. Gal-Yam, J. Greiner, S.R. Kulkarni, E.O. Ofek, F. Olivares E., P. Schady, J.M. Silverman, N.R. Tanvir and D. Xu: Swift J2058.4+0516: Discovery of a Possible Second Relativistic Tidal Disruption Flare?. Ap. J. 753, 77 (2012).

Ceverino, D., A. Dekel, N. Mandelker, F. Bournaud, A. Burkert, R. Genzel and J. Primack: Rotational support of giant clumps in high-z disc galaxies. Mon. Not. R. Astron. Soc. 420, 3490-3520 (2012).

Chakraborty, P., M.G. Mustafa and M.H. Thoma: Screening masses in gluonic plasma. Physical Review D 85, 056002 (2012).

Chaudhary, P., M. Brusa, G. Hasinger, A. Merloni, A. Comastri and K. Nandra: Rest-frame stacking of 2XMM catalog sources. Properties of the Fe Kα line. Astron. Astrophys. 537, A6 (2012).

Chaudhuri, M., V. Nosenko, C. Knapek, U. Konopka, A.V. Ivlev, H.M. Thomas and G.E. Morfill: Direct experimental observation of binary agglomerates in complex plasmas. Applied Physics Letters 100, 264101, 1-4 (2012).

Cheung, E., S.M. Faber, D.C. Koo, A.A. Dutton, L. Simard, E.J. McGrath, J.-S. Huang, E.F. Bell, A. Dekel, J.J. Fang, S. Salim, G. Barro, K. Bundy, A.L. Coil, M.C. Cooper, C.J. Conselice, M. Davis, A. Domínguez, S.A. Kassin, D.D. Kocevski, A.M. Koekemoer, L. Lin, J.M. Lotz, J.A. Newman, A.C. Phillips, D.J. Rosario, B.J. Weiner and C.N.A. Willmer: The Dependence of Quenching upon the Inner Structure of Galaxies at 0.5 <= z < 0.8 in the DEEP2/AEGIS Survey. Ap. J. 760, 131, (2012).

Chon, G. and H. Böhringer: The ROSAT-ESO flux limited X-ray galaxy cluster survey (REFLEX II). I. Newly identified X-ray luminous clusters at z ≥ 0.2. Astron. Astrophys. 538, A35 (2012).

Chon, G., H. Böhringer and G.P. Smith: Statistics and implications of substructure detected in a representative sample of X-ray clusters. Astron. Astrophys. 548, A59 (2012).

Chon, G., H. Böhringer, M. Krause and J. Trümper: Discovery of an X-ray cavity near the radio lobes of Cygnus A indicating previous AGN activity. Astron. Astrophys. 545, L3 (2012).

Churazov, E., A. Vikhlinin, I. Zhuravleva, A. Schekochihin, I. Parrish, R. Sunyaev, W. Forman, H. Böhringer and S. Randall: X-ray surface brightness and gas density fluctuations in the Coma cluster. Mon. Not. R. Astron. Soc. 421, 1123-1135 (2012).

Cicone, C., C. Feruglio, R. Maiolino, F. Fiore, E. Piconcelli, N. Menci, H. Aussel and E. Sturm: The physics and the structure of the quasar-driven outflow in Mrk 231. Astron. Astrophys. 543, A99 (2012).

Civano, F., M. Elvis, G. Lanzuisi, T. Aldcroft, M. Trichas, A. Bongiorno, M. Brusa, L. Blecha, A. Comastri, A. Loeb, M. Salvato, A. Fruscione, A. Koekemoer, S. Komossa, R. Gilli, V. Mainieri, E. Piconcelli and C. Vignali: Chandra High-resolution observations of CID-42, a Candidate Recoiling Supermassive Black Hole. Ap. J. 752, 49 (2012).

Civano, F., M. Elvis, M. Brusa, A. Comastri, M. Salvato, G. Zamorani, T. Aldcroft, A. Bongiorno, P. Capak, N. Cappelluti, M. Cisternas, F. Fiore, A. Fruscione, H. Hao, J. Kartaltepe, A. Koekemoer, R. Gilli, C.D. Impey, G. Lanzuisi, E. Lusso, V. Mainieri, T. Miyaji, S. Lilly, D. Masters, S. Puccetti, K. Schawinski, N.Z. Scoville, J. Silverman, J. Trump, M. Urry, C. Vignali and N.J. Wright: The Chandra COSMOS Survey. III. Optical and Infrared Identification of X-Ray Point Sources. Ap. J. Supp. Ser. 201, 30 (2012).

Coe, D., K. Umetsu, A. Zitrin, M. Donahue, E. Medezinski, M. Postman, M. Carrasco, T. Anguita, M. Geller, K. Rines, A. Diaferio, M. Kurtz, L. Bradley, A. Koekemoer, W. Zheng, M. Nonino, A. Molino, A. Mahdavi, D. Lemze, L. Infante, S. Ogaz, P. Melchior, O. Host, H. Ford, C. Grillo, P. Rosati, Jiménez-Y. Teja, J. Moustakas, T. Broadhurst, B. Ascaso, O. Lahav, M. Bartelmann, N. Benítez, R. Bouwens, O. Graur, G. Graves, S. Jha, S. Jouvel, D. Kelson, L. Moustakas, D. Maoz, M. Meneghetti, J. Merten, A. Riess, S. Rodney and S. Seitz: CLASH: Precise New Constraints on the Mass Profile of the Galaxy Cluster A2261. Ap. J. 757 (2012).

Coe, M.J., F. Haberl, R. Sturm, E.S. Bartlett, D. Hatzidimitriou, L.J. Townsend, A. Udalski, S. Mereghetti and M. Filipović: The XMM-Newton survey of the Small Magellanic Cloud: XMMU J010633.1-731543 and XMMU J010743.1-715953, two new Be/X-ray binary systems*. Mon. Not. R. Astron. Soc. 424, 282-292 (2012).

Connelly, J.L., D.J. Wilman, A. Finoguenov, A. Hou, J.S. Mulchaey, S.L. McGee, M.L. Balogh, L.C. Parker, R. Saglia, R.D.E. Henderson and R.G. Bower: Exploring the Diversity of Groups at 0.1 < z < 0.8 with X-Ray and Optically Selected Samples. Ap. J. 756, 139 (2012).

Corsini, E.M., J. Méndez-Abreu, N. Pastorello, E. Dalla Bontà, L. Morelli, A. Beifiori, A. Pizzella and F. Bertola: Polar bulges and polar nuclear discs: the case of NGC 4698. Mon. Not. R. Astron. Soc. 423, L79-L83 (2012).

Costantini, E., C. Pinto, J.S. Kaastra, J.J.M. in't Zand, M.J. Freyberg, L. Kuiper, M. Méndez, C.P. de Vries and L.B.F.M. Waters: XMM-Newton observation of 4U 1820-30. Broad band spectrum and the contribution of the cold interstellar medium. Astron. Astrophys. 539, A32 (2012).

Couëdel, L., D. Samsonov, C. Durniak, S. Zhdanov, H.M. Thomas, G.E. Morfill and C. Arnas: Three-Dimensional Structure of Mach Cones in Monolayer Complex Plasma Crystals. Phys. Rev. Lett. 109, 175001 (2012).

Cousens, S.E., S. Sultana, I. Kourakis, V.V. Yaroshenko, F. Verheest and M.A. Hellberg: Nonlinear dust-acoustic solitary waves in strongly coupled dusty plasmas. Physical Review E 86, 066404 (2012).

Cresci, G., F. Mannucci, V. Sommariva, R. Maiolino, A. Marconi and M. Brusa: The metallicity properties of zCOSMOS galaxies at 0.2 < z < 0.8. Mon. Not. R. Astron. Soc. 421, 262-269 (2012).

Crocker, A., M. Krips, M. Bureau, L.M. Young, T.A. Davis, E. Bayet, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra and A.-M. Weijmans:

The ATLAS^{3D} project - XI. Dense molecular gas properties of CO-luminous early-type galaxies. Mon. Not. R. Astron. Soc. 421, 1298-1314 (2012).

D'Ammando, F., A. Rau, P. Schady, J. Finke, M. Orienti, J. Greiner, D.A. Kann, R. Ojha, A.R. Foley, J. Stevens, J.M. Blanchard, P.G. Edwards, M. Kadler and J.E.J. Lovell: PKS 2123-463: a confirmed γ-ray blazar at high redshift. Mon. Not. R. Astron. Soc. 427, 893-900 (2012).

Dalla Vecchia, C. and J. Schaye: Simulating galactic outflows with thermal supernova feedback. Mon. Not. R. Astron. Soc. 426, 140-158 (2012).

Davies, R. and M. Kasper: Adaptive Optics for Astronomy. Annual Reviews of Astronomy and Astrophysics 50, 305-351 (2012).

Davies, R., D. Mark and A. Sternberg: Dense molecular gas around AGN: HCN/CO in NGC 3227. Astron. Astrophys. 537, A133 (2012).

Davis, T.A., D. Krajnović, R.M. McDermid, M. Bureau, M. Sarzi, K. Nyland, K. Alatalo, E. Bayet, L. Blitz, M. Bois, F. Bournaud, M. Cappellari, A. Crocker, R.L. Davies, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: Gemini GMOS and WHT SAURON integral-field spectrograph observations of the AGN-driven outflow in NGC 1266. Mon. Not. R. Astron. Soc. 426, 1574-1590 (2012).

De Lucia, G., F. Fontanot and D. Wilman: What determines the fraction of elliptical galaxies in clusters?. Mon. Not. R. Astron. Soc. 419, 1324-1330 (2012).

Decarli, R., F. Walter, Y. Yang, C.L. Carilli, X. Fan, J.F. Hennawi, J. Kurk, D. Riechers, H.-W. Rix, M.A. Strauss and B.P. Venemans: Hubble Space Telescope Narrowband Search for Extended Lyα Emission around Two z > 6 Quasars. Ap. J. 756, 150 (2012).

de Gasperin, F., E. Orru, M. Murgia, A. Merloni,...et al.: M 87 at metre wavelengths: the LOFAR picture. Astron. Astrophys. 547, A56 (2012).

de Horta, A.Y., M.D. Filipović, L.M. Bozzetto, P. Maggi, F. Haberl, E.J. Crawford, M. Sasaki, D. Urošević, W. Pietsch, R. Gruendl, J. Dickel, N.F.H. Tothill, Y.-H. Chu, J.L. Payne and J.D. Collier: Multi-frequency study of supernova remnants in the Large Magellanic Cloud. The case of LMC SNR J0530-7007. Astron. Astrophys. 540, A25 (2012).

de Mooij, E.J.W., M. Brogi, R.J. de Kok, J. Koppenhoefer, S.V. Nefs, I.A.G. Snellen, J. Greiner, J. Hanse, R.C. Heinsbroek, C.H. Lee and P.P. van der Werf: Optical to near-infrared transit observations of super-Earth GJ 1214b: water-world or mini-Neptune?. Astron. Astrophys. 538, A46 (2012).

Dennerl, K., C.M. Lisse, A. Bhardwaj, D.J. Christian, S.J. Wolk, D. Bodewits, T.H. Zurbuchen, M. Combi and S. Lepri: Solar system X-rays from charge exchange processes. Astron. Nachr. 333, 324 (2012).

Desai, S., R. Armstrong, J.J. Mohr, D.R. Semler, J. Liu, E. Bertin, S.S. Allam, W.A. Barkhouse, G. Bazin, E.J. Buckley-Geer, M.C. Cooper, S.M. Hansen, F.W. High, H. Lin, Y.-T. Lin, C.-C. Ngeow, A. Rest, J. Song, D. Tucker and A. Zenteno: The Blanco Cosmology Survey: Data Acquisition, Processing, Calibration, Quality Diagnostics, and Data Release. Ap. J. 757, 83 (2012).

Dewey, D., V.V. Dwarkadas, F. Haberl, R. Sturm and C.R. Canizares: Evolution and Hydrodynamics of the Very Broad X-Ray Line Emission in SN 1987A. Ap. J. 752, 103 (2012).

Diehl, R. and M. Lugaro: Astronomy with Radioactivities. Publ. Astron. Soc. Australia. 29, 87-89 (2012).

Dietrich, J.P., N. Werner, D. Clowe, A. Finoguenov, T. Kitching, L. Miller and A. Simionescu: A filament of dark matter between two clusters of galaxies. Nature 487, 202-204 (2012).

Dobbs, C.L. and A. Burkert: The myth of the molecular ring. Mon. Not. R. Astron. Soc. 421, 2940-2946 (2012).

Dobbs, C.L., J.E. Pringle and A. Burkert: Giant molecular clouds: what are they made from, and how do they get there?. Mon. Not. R. Astron. Soc. 425, 2157-2168 (2012).

Domínguez Sánchez, H., M. Mignoli, F. Pozzi, F. Calura, A. Cimatti, C. Gruppioni, J. Cepa, M. Sánchez Portal, G. Zamorani, S. Berta, D. Elbaz, E. Le Floc'h, G.L. Granato, D. Lutz, R. Maiolino, F. Matteucci, P. Nair, R. Nordon, L. Pozzetti, L. Silva, J. Silverman, S. Wuyts, C.M. Carollo, T. Contini, J.-P. Kneib, O. Le Fèvre, S.J. Lilly, V. Mainieri, A. Renzini, M. Scodeggio, S. Bardelli, M. Bolzonella, A. Bongiorno, K. Caputi, G. Coppa, O. Cucciati, S. dela Torre, L. de Ravel, P. Franzetti, B. Garilli, A. Iovino, P. Kampczyk, C. Knobel, K. Kovač, F. Lamareille, J.-F. Le Borgne, V. Le Brun, C. Maier, B. Magnelli, R. Pelló, Y. Peng, E. Perez-Montero, E. Ricciardelli, L. Riguccini, M. Tanaka, L.A.M. Tasca, L. Tresse, D. Vergani and E. Zucca: Comparison of star formation rates from Hα and infrared luminosity as seen by Herschel. Mon. Not. R. Astron. Soc. 426, 330-341 (2012).

Donley, J.L., A.M. Koekemoer, M. Brusa, P. Capak, C.N. Cardamone, F. Civano, O. Ilbert, C.D. Impey, J.S. Kartaltepe, T. Miyaji, M. Salvato, D.B. Sanders, J.R. Trump and G. Zamorani: Identifying Luminous Active Galactic Nuclei in Deep Surveys: Revised IRAC Selection Criteria. Ap. J. 748, 142 (2012).

Drews, C., L. Berger, R.F. Wimmer-Schweingruber, P. Bochsler, A.B. Galvin, B. Klecker and E. Möbius: Inflow direction of interstellar neutrals deduced from pickup ion measurements at 1 AU. J. Geophys. Res. (Space Phys.) 117, 9106 (2012).

Du, C.-R., K.R. Sütterlin, A.V. Ivlev, H.M. Thomas and G.E. Morfill: Model experiment for studying lane formation in binary complex plasmas. EPL (Europhysics Letters) 99, 45001 (2012).

Du, C.-R., K.R. Sütterlin, K. Jiang, C. Räth, A.V. Ivlev, S. Khrapak, M. Schwabe, H.M. Thomas, V.E. Fortov, A.M. Lipaev, V.I. Molotkov, O.F. Petrov, Y. Malentschenko, F. Yurtschichin, Y. Lonchakov and G.E. Morfill: Experimental investigation on lane formation in complex plasmas under microgravity conditions. New J. Phys. 14, 073058 (2012).

Du, C.-R., V. Nosenko, S. Zhdanov, H.M. Thomas and G.E. Morfill: Interaction of two-dimensional plasma crystals with upstream charged particles. EPL (Europhysics

Letters) 99, 55001 (2012).

Duffy, A.R., S.T. Kay, R.A. Battye, C.M. Booth, C. Dalla Vecchia and J. Schaye: Modelling neutral hydrogen in galaxies using cosmological hydrodynamical simulations. Mon. Not. R. Astron. Soc. 420, 2799-2818 (2012).

Durier, F. and C. Dalla Vecchia: Implementation of feedback in smoothed particle hydrodynamics: towards concordance of methods. Mon. Not. R. Astron. Soc. 419, 465-478 (2012).

Durniak, C., D. Samsonov, S. Zhdanov and G. Morfill: Dynamic Phenomena in Complex (Colloidal) Plasmas. Progress in Colloid and Polymer Science 139, 13-18 (2012).

Eichner, T., S. Seitz and A. Bauer: Golden gravitational lensing systems from the Sloan Lens ACS Survey - II. SDSS J1430+4105: a precise inner total mass profile from lensing alone. Mon. Not. R. Astron. Soc. 427, 1918-1939 (2012).

Elliott, J., J. Greiner, S. Khochfar, P. Schady, J.L. Johnson and A. Rau: The long γ-ray burst rate and the correlation with host galaxy properties. Astron. Astrophys. 539, A113 (2012).

Elvis, M., H. Hao, F. Civano, M. Brusa, M. Salvato, A. Bongiorno, P. Capak, G. Zamorani, A. Comastri, K. Jahnke, E. Lusso, V. Mainieri, J.R. Trump, L.C. Ho, H. Aussel, N. Cappelluti, M. Cisternas, D. Frayer, R. Gilli, G. Hasinger, J.P. Huchra, C.D. Impey, A.M. Koekemoer, G. Lanzuisi, E. Le Floc'h, S.J. Lilly, Y. Liu, P. McCarthy, H.J. McCracken, A. Merloni, H.-J. Roeser, D.B. Sanders, M. Sargent, N. Scoville, E. Schinnerer, D. Schiminovich, J. Silverman, Y. Taniguchi, C. Vignali, C.M. Urry, M.A. Zamojski and M. Zatloukal: Spectral Energy Distributions of Type 1 Active Galactic Nuclei in the COSMOS Survey. I. The XMM-COSMOS Sample. Ap. J. 759, 6 (2012).

Fabricius, M.H., R.P. Saglia, D.B. Fisher, N. Drory, R. Bender and U. Hopp: Kinematic Signatures of Bulges Correlate with Bulge Morphologies and Sérsic Index. Ap. J. 754, 67 (2012).

Falocco, S., F.J. Carrera, A. Corral, E. Laird, K. Nandra, X. Barcons, M.J. Page and J. Digby-North: Averaging the AGN X-ray spectra from deep Chandra fields. Astron. Astrophys. 538, A83 (2012).

Fassbender, R., R. Šuhada and A. Nastasi: AGN Triggering in the Infall Regions of Distant X-Ray Luminous Galaxy Clusters at 0.9 < z < ~1.6. Adv. Astron. 2012, -not-(2012).

Fedele, D., S. Bruderer, E.F. van Dishoeck, G.J. Herczeg, N.J. Evans, J. Bouwman, T. Henning and J. Green: Warm H_2O and OH in the disk around the Herbig star HD 163296. Astron. Astrophys. 544, L9 (2012).

Ferreras, I., A. Pasquali, S. Khochfar, H. Kuntschner, M. Kümmel, N. Pirzkal, R. Windhorst, S. Malhotra, J. Rhoads, R.W. O'Connell, S. Cohen, N.P. Hathi, R.E. Ryan and H. Yan: The Road to the Red Sequence: A Detailed View of the Formation of a Massive Galaxy at z ~ 2. Astron. J. 144, 47 (2012).

Filgas, R., J. Greiner, P. Schady, A. de Ugarte Postigo, S.R. Oates, M. Nardini, T. Krühler, A. Panaitescu, D.A. Kann, S. Klose, P.M.J. Afonso, W.H. Allen, A.J. Castro-Tirado, G.W. Christie, S. Dong, J. Elliott, T. Natusch, A. Nicuesa Guelbenzu, F. Olivares E., A. Rau, A. Rossi, V. Sudilovsky and P.C.M. Yock: GRB 091029: at the limit of the fireball scenario. Astron. Astrophys. 546, A101 (2012).

Fink, M.A., S.K. Zhdanov, M.H. Thoma, H. Höfner and G.E. Morfill: Pearl-necklace-like structures of microparticle strings observed in a dc complex plasma. Phys. Rev. E 86, 065401(R) (2012).

Forbes, J., M. Krumholz and A. Burkert: Evolving Gravitationally Unstable Disks over Cosmic Time: Implications for Thick Disk Formation. Ap. J. 754, 48 (2012).

Ford, J., H. Hildebrandt, L. Van Waerbeke, A. Leauthaud, P. Capak, A. Finoguenov, M. Tanaka, M.R. George and J. Rhodes: Magnification by Galaxy Group Dark Matter Halos. Ap. J. 754, 143 (2012).

Fortov, V.E. and G.E. Morfill: Strongly coupled dusty plasmas on ISS: experimental results and theoretical explanation. Plasma Phys. Controlled Fusion 54, 124040 (2012).

Fotopoulou, S., M. Salvato, G. Hasinger, E. Rovilos, M. Brusa, E. Egami, D. Lutz, V. Burwitz, J.P. Henry, J.H. Huang, D. Rigopoulou and M. Vaccari: Photometry and Photometric Redshift Catalogs for the Lockman Hole Deep Field. Ap. J. Supp. Ser. 198, 1 (2012).

Foucar, L., A. Barty, N. Coppola, R. Hartmann, P. Holl, U. Hoppe, S. Kassemeyer, N. Kimmel, J. Küpper, M. Scholz, S. Techert, T.A. White, L. Strüder and J. Ullrich: CASS—CFEL-ASG software suite. Computer Physics Communications 183, 2207-2213 (2012).

Fuente, A., P. Caselli, C. McCoey, J. Cernicharo, D. Johnstone, M. Fich, T. van Kempen, E. van Dishoeck, U. Yildiz, R. Visser, L. Kristensen, T. Alonso-Albi, F. Herpin and S. Tisi: The abundance of $C^{18}O$ and HDO in the envelope and hot core of the intermediate mass protostar NGC 7129 FIRS 2. Astron. Astrophys. 540, A75 (2012).

Gaibler, V., S. Khochfar, M. Krause and J. Silk: Jet-induced star formation in gas-rich galaxies. Mon. Not. R. Astron. Soc. 425, 438-449 (2012).

García-Burillo, S., A. Usero, A. Alonso-Herrero, J. Graciá-Carpio, M. Pereira-Santaella, L. Colina, P. Planesas and S. Arribas: Star-formation laws in luminous infrared galaxies. New observational constraints on models. Astron. Astrophys. 539, A8 (2012).

Genel, S., T. Naab, R. Genzel, N.M. Förster Schreiber, A. Sternberg, L. Oser, P.H. Johansson, R. Davé, B.D. Oppenheimer and A. Burkert: Short-lived Star-forming Giant Clumps in Cosmological Simulations of z ≈ 2 Disks. Ap. J. 745, 11 (2012).

Genzel, R., L.J. Tacconi, F. Combes, A. Bolatto, R. Neri, A. Sternberg, M.C. Cooper, N. Bouché, F. Bournaud, A. Burkert, J. Comerford, P. Cox, M. Davis, N.M. Förster Schreiber, S. Garcia-Burillo, J. Gracia-Carpio, D. Lutz, T. Naab, S. Newman, A. Saintonge, K. Shapiro, A. Shapley and B. Weiner: The Metallicity Dependence of the CO → H_2 Conversion Factor in z >= 1 Star-forming Galaxies. Ap. J. 746, 69 (2012).

Georgakakis, A., M. Grossi, J. Afonso and A.M. Hopkins:

The radio spectra of reddened Two Micron All Sky Survey quasi-stellar objects: evidence for young radio jets. Mon. Not. R. Astron. Soc. 421, 2223-2231 (2012).

George, M.R., A. Leauthaud, K. Bundy, A. Finoguenov, C.-P. Ma, E.S. Rykoff, J.L. Tinker, R.H. Wechsler, R. Massey and S. Mei: Galaxies in X-Ray Groups. II. A Weak Lensing Study of Halo Centering. Ap. J. 757, 2 (2012).

Gerhard, O. and I. Martinez-Valpuesta: The Inner Galactic Bulge: Evidence for a Nuclear Bar?. Ap. J. Lett. 744, L8 (2012).

Gerke, B.F., J.A. Newman, M. Davis, A.L. Coil, M.C. Cooper, A.A. Dutton, S.M. Faber, P. Guhathakurta, N. Konidaris, D.C. Koo, L. Lin, K. Noeske, A.C. Phillips, D.J. Rosario, B.J. Weiner, C.N.A. Willmer and R. Yan: The DEEP2 Galaxy Redshift Survey: The Voronoi-Delaunay Method Catalog of Galaxy Groups. Ap. J. 751, 50, (2012).

Gerssen, J., D.J. Wilman and L. Christensen: Beyond the fibre: resolved properties of Sloan Digital Sky Survey galaxies. Mon. Not. R. Astron. Soc. 420, 197-215 (2012).

Gillessen, S., R. Genzel, T.K. Fritz, E. Quataert, C. Alig, A. Burkert, J. Cuadra, F. Eisenhauer, O. Pfuhl, K. Dodds-Eden, C.F. Gammie and T. Ott: A gas cloud on its way towards the supermassive black hole at the Galactic Centre. Nature 481, 51-54 (2012).

Giodini, S., A. Finoguenov, D. Pierini, G. Zamorani, O. Ilbert, S. Lilly, Y. Peng, N. Scoville and M. Tanaka: The galaxy stellar mass function of X-ray detected groups. Environmental dependence of galaxy evolution in the COSMOS survey. Astron. Astrophys. 538, A104 (2012).

Gozdziewski, K., I. Nasiroglu, A. Slowikowska, K. Beuermann, G. Kanbach, B. Gauza, A.J. Maciejewski, R. Schwarz, A.D. Schwope, T.C. Hinse, N. Haghighipour, V. Burwitz, M. Slonina and A. Rau: On the HU Aquarii planetary system hypothesis. Mon. Not. R. Astron. Soc. 425, 930-949 (2012).

Goicoechea, J.R., J. Cernicharo, A. Karska, G.J. Herczeg, E.T. Polehampton, S.F. Wampfler, L.E. Kristensen, E.F. van Dishoeck, M. Etxaluze, O. Berné and R. Visser: The complete far-infrared and submillimeter spectrum of the Class 0 protostar Serpens SMM1 obtained with Herschel. Characterizing UV-irradiated shocks heating and chemistry. Astron. Astrophys. 548, A77 (2012).

Goldstein, A., J.M. Burgess, R.D. Preece, M.S. Briggs, S. Guiriec, A.J. van der Horst, V. Connaughton, C.A. Wilson-Hodge, W.S. Paciesas, C.A. Meegan, A. von Kienlin, P.N. Bhat, E. Bissaldi, V. Chaplin, R. Diehl, G.J. Fishman, G. Fitzpatrick, S. Foley, M. Gibby, M. Giles, J. Greiner, D. Gruber, R.M. Kippen, C. Kouveliotou, S. McBreen, S. McGlynn, A. Rau and D. Tierney: The Fermi GBM Gamma-Ray Burst Spectral Catalog: The First Two Years. Ap. J. Supp. Ser. 199, 19 (2012).

González-Alfonso, E., J. Fischer, J. Graciá-Carpio, E. Sturm, S. Hailey-Dunsheath, D. Lutz, A. Poglitsch, A. Contursi, H. Feuchtgruber, S. Veilleux, H.W.W. Spoon, A. Verma, N. Christopher, R. Davies, A. Sternberg, R. Genzel and L. Tacconi: Herschel/PACS spectroscopy of NGC 4418 and Arp 220: H_2O, $H_2{}^{18}O$, OH, ^{18}OH, O I, HCN, and NH_3. Astron. Astrophys. 541, A4 (2012).

Gorkhover, T., M. Adolph, D. Rupp, S. Schorb, S.W. Epp, B. Erk, L. Foucar, R. Hartmann, N. Kimmel, K.-U. Kühnel, D. Rolles, B. Rudek, A. Rudenko, R. Andritschke, A. Aquila, J.D. Bozek, N. Coppola, T. Erke, F. Filsinger, H. Gorke, H. Graafsma, L. Gumprecht, G. Hauser, S. Herrmann, H. Hirsemann, A. Hömke, P. Holl, C. Kaiser, F. Krasniqi, J.-H. Meyer, M. Matysek, M. Messerschmidt, D. Miessner, B. Nilsson, D. Pietschner, G. Potdevin, C. Reich, G. Schaller, C. Schmidt, F. Schopper, C.D. Schröter, J. Schulz, H. Soltau, G. Weidenspointner, I. Schlichting, L. Strüder, J. Ullrich, T. Möller and C. Bostedt: Nanoplasma Dynamics of Single Large Xenon Clusters Irradiated with Superintense X-Ray Pulses from the Linac Coherent Light Source Free-Electron Laser. Phys. Rev. Lett. 108, 245005 (2012).

Grondin, M.-H., M. Sasaki, F. Haberl, W. Pietsch, E.J. Crawford, M.D. Filipović, L.M. Bozzetto, S. Points and R.C. Smith: XMMU J0541.8-6659, a new supernova remnant in the Large Magellanic Cloud. Astron. Astrophys. 539, A15 (2012).

Gruber, D., H. Saio, R. Kuschnig, L. Fossati, G. Handler, K. Zwintz, W.W. Weiss, J.M. Matthews, D.B. Guenther, A.F.J. Moffat, S.M. Rucinski and D. Sasselov: New slowly pulsating B stars in the field of the young open cluster NGC 2244 discovered by the MOST photometric satellite. Mon. Not. R. Astron. Soc. 420, 291-298 (2012).

Haaland, S., B. Sonnerup and G. Paschmann: More about arc-polarized structures in the solar wind. Ann. Geophysicae 30, 867-883 (2012).

Haberl, F., M.D. Filipović, L.M. Bozzetto, E.J. Crawford, S.D. Points, W. Pietsch, A.Y. De Horta, N. Tothill, J.L. Payne and M. Sasaki: Multi-frequency observations of SNR J0453-6829 in the LMC. A composite supernova remnant with a pulsar wind nebula. Astron. Astrophys. 543, A154 (2012).

Haberl, F., R. Sturm, J. Ballet, D.J. Bomans, D.A.H. Buckley, M.J. Coe, R. Corbet, M. Ehle, M.D. Filipovic, M. Gilfanov, D. Hatzidimitriou, N. La Palombara, S. Mereghetti, W. Pietsch, S. Snowden and A. Tiengo: The XMM-Newton survey of the Small Magellanic Cloud. Astron. Astrophys. 545, A128 (2012).

Haberl, F., R. Sturm, M.D. Filipović, W. Pietsch and E.J. Crawford: SXP 1062, a young Be X-ray binary pulsar with long spin period. Implications for the neutron star birth spin. Astron. Astrophys. 537, L1 (2012).

Haerendel, G. and S.B. Mende: Magnetosphere-ionosphere coupling and scale breaking of a plasma cloud in the magnetosphere. J. Geophys. Res. (Space Phys.) 117, 9233 (2012).

Haerendel, G., H.U. Frey, C.C. Chaston, O. Amm, L. Juusola, R. Nakamura, E. Seran and J.M. Weygand: Birth and life of auroral arcs embedded in the evening auroral oval convection: A critical comparison of observations with theory. J. Geophys. Res. (Space Phys.) 117, 12220 (2012).

Haerendel, G.: A tool for characterizing and evaluating Type II auroral arcs. J. Geophys. Res. (Space Phys.) 117, 6214 (2012).

Haerendel, G.: Solar Auroras. Ap. J. 749, 166 (2012).

Haerendel, G.: Auroral generators: A Survey, in "Auroral

Phenomenology and Magnetospheric Processes". (Eds.) A. Keiling, E. Donovan, F. Bagenal, and T. Karlsson, Geophysical Monograph 197 American Geophys. Union, Washington, DC, 347-354, (2012)

Hailey-Dunsheath, S., E. Sturm, J. Fischer, A. Sternberg, J. Graciá-Carpio, R. Davies, E. González-Alfonso, D. Mark, A. Poglitsch, A. Contursi, R. Genzel, D. Lutz, L. Tacconi, S. Veilleux, A. Verma and J.A. de Jong: Herschel-PACS Observations of Far-IR CO Line Emission in NGC 1068: Highly Excited Molecular Gas in the Circumnuclear Disk. Ap. J. 755, 57 (2012).

Haines, C.P., M.J. Pereira, A.J.R. Sanderson, G.P. Smith, E. Egami, A. Babul, A.C. Edge, A. Finoguenov, S.M. Moran and N. Okabe: LoCuSS: A Dynamical Analysis of X-Ray Active Galactic Nuclei in Local Clusters. Ap. J. 754, 97 (2012).

Hamrin, M., O. Marghitu, P. Norqvist, S. Buchert, M. André, B. Klecker, L.M. Kistler and I. Dandouras: The role of the inner tail to midtail plasma sheet in channeling solar wind power to the ionosphere. J. Geophys. Res. (Space Phys.) 117, 6310 (2012).

Harrison, C.M., D.M. Alexander, J.R. Mullaney, B. Altieri, D. Coia, V. Charmandaris, E. Daddi, H. Dannerbauer, K. Dasyra, A. Del Moro, M. Dickinson, R.C. Hickox, R.J. Ivison, J. Kartaltepe, E. Le Floc'h, R. Leiton, B. Magnelli, P. Popesso, E. Rovilos, D. Rosario and A.M. Swinbank: No Clear Submillimeter Signature of Suppressed Star Formation among X-Ray Luminous Active Galactic Nuclei. Ap. J. Lett. 760, L15 (2012).

Haswell, C.A., L. Fossati, T. Ayres, K. France, C.S. Froning, S. Holmes, U.C. Kolb, R. Busuttil, R.A. Street, L. Hebb, A. Collier Cameron, B. Enoch, V. Burwitz, J. Rodriguez, R.G. West, D. Pollacco, P.J. Wheatley and A. Carter: Near-ultraviolet Absorption, Chromospheric Activity, and Star-Planet Interactions in the WASP-12 system. Ap. J. 760, 79 (2012).

Haubois, X., K. Dodds-Eden, A. Weiss, T. Paumard, G. Perrin, Y. Clénet, S. Gillessen, P. Kervella, F. Eisenhauer, R. Genzel and D. Rouan: Flares and variability from Sagittarius A*: five nights of simultaneous multi-wavelength observations. Astron. Astrophys. 540, A41 (2012).

Hayashida, M., G.M. Madejski, K. Nalewajko, ..., W. Collmar,..., J. Greiner,T. Krühler, et al.: The Structure and Emission Model of the Relativistic Jet in the Quasar 3C 279 Inferred from Radio to High-energy γ-Ray Observations in 2008-2010. Ap. J. 754, 114 (2012).

Henriques, B.M.B., S.D.M. White, G. Lemson, P.A. Thomas, Q. Guo, G.-D. Marleau and R.A. Overzier: Confronting theoretical models with the observed evolution of the galaxy population out to z= 4. Mon. Not. R. Astron. Soc. 421, 2904-2916 (2012).

Henze, M., W. Pietsch, F. Haberl, M. Hernanz, G. Sala, M. Della Valle and H. Stiele: M31N 2008-05d: a M 31 disk nova with a dipping supersoft X-ray light curve. Astron. Astrophys. 544, A44 (2012).

Herczeg, G.J., A. Karska, S. Bruderer, L.E. Kristensen, E.F. van Dishoeck, J.K. Jørgensen, R. Visser, S.F. Wampfler, E.A. Bergin, U.A. Yildiz, K.M. Pontoppidan and J. Graciа-Carpio: Water in star-forming regions with Herschel: highly excited molecular emission from the NGC 1333 IRAS 4B outflow. Astron. Astrophys. 540, A84 (2012).

Herpin, F., L. Chavarría, F. van der Tak, F. Wyrowski, E.F. van Dishoeck, T. Jacq, J. Braine, A. Baudry, S. Bontemps and L. Kristensen: The massive protostar W43-MM1 as seen by Herschel-HIFI water spectra: high turbulence and accretion luminosity. Astron. Astrophys. 542, A76 (2012).

Hickox, R.C., J.L. Wardlow, I. Smail, A.D. Myers, D.M. Alexander, A.M. Swinbank, A.L.R. Danielson, J.P. Stott, S.C. Chapman, K.E.K. Coppin, J.S. Dunlop, E. Gawiser, D. Lutz, P. van der Werf and A. Weiß: The LABOCA survey of the Extended Chandra Deep Field-South: clustering of submillimetre galaxies. Mon. Not. R. Astron. Soc. 421, 284-295 (2012).

High, F.W., H. Hoekstra, N. Leethochawalit, ..., J.J. Mohr, et al.: Weak-lensing Mass Measurements of Five Galaxy Clusters in the South Pole Telescope Survey Using Magellan/Megacam. Ap. J. 758, 68 (2012).

Hilton, M., C.J. Conselice, I.G. Roseboom, D. Burgarella, V. Buat, S. Berta, M. Béthermin, J. Bock, S.C. Chapman, D.L. Clements, A. Conley, L. Conversi, A. Cooray, D. Farrah, E. Ibar, G. Magdis, B. Magnelli, G. Marsden, R. Nordon, S.J. Oliver, M.J. Page, P. Popesso, F. Pozzi, B. Schulz, D. Scott, A.J. Smith, M. Symeonidis, I. Valtchanov, M. Viero, L. Wang and M. Zemcov: Herschel observations of a z ~ 2 stellar mass selected galaxy sample drawn from the GOODS NICMOS Survey. Mon. Not. R. Astron. Soc. 425, 540-555 (2012).

Hilz, M., T. Naab, J.P. Ostriker, J. Thomas, A. Burkert and R. Jesseit: Relaxation and stripping - The evolution of sizes, dispersions and dark matter fractions in major and minor mergers of elliptical galaxies. Mon. Not. R. Astron. Soc. 425, 3119-3136 (2012).

Hirschmann, M., R.S. Somerville, T. Naab and A. Burkert: Origin of the antihierarchical growth of black holes. Mon. Not. R. Astron. Soc. 426, 237-257 (2012).

Hirschmann, M., T. Naab, R.S. Somerville, A. Burkert and L. Oser: Galaxy formation in semi-analytic models and cosmological hydrodynamic zoom simulations. Mon. Not. R. Astron. Soc. 419, 3200-3222 (2012).

Ho, S., A. Cuesta, H.-J. Seo, R. de Putter, A.J. Ross, M. White, N. Padmanabhan, S. Saito, D.J. Schlegel, E. Schlafly, U. Seljak, C. Hernández-Monteagudo, A.G. Sánchez, W.J. Percival, M. Blanton, R. Skibba, D. Schneider, B. Reid, O. Mena, M. Viel, D.J. Eisenstein, F. Prada, B.A. Weaver, N. Bahcall, D. Bizyaev, H. Brewinton, J. Brinkman, L. Nicolacida Costa, J.R. Gott, E. Malanushenko, V. Malanushenko, B. Nichol, D. Oravetz, K. Pan, N. Palanque-Delabrouille, N.P. Ross, A. Simmons, F. de Simoni, S. Snedden and C. Yeche: Clustering of Sloan Digital Sky Survey III Photometric Luminous Galaxies: The Measurement, Systematics, and Cosmological Implications. Ap. J. 761, 14 (2012).

Hohle, M.M., F. Haberl, J. Vink, C.P. de Vries and R. Neuhäuser: Narrow absorption features in the co-added XMM-Newton RGS spectra of isolated neutron stars. Mon. Not. R. Astron. Soc. 419, 1525-1536 (2012).

Hohle, M.M., F. Haberl, J. Vink, C.P. de Vries, R. Turolla, S. Zane and M. Méndez: The continued spectral and temporal evolution of RX J0720.4-3125. Mon. Not. R. Astron. Soc. 423, 1194-1199 (2012).

Holland, S.T., M. De Pasquale, J. Mao, T. Sakamoto, P. Schady, S. Covino, Y.-Z. Fan, Z.-P. Jin, P. D'Avanzo, A. Antonelli, V. D'Elia, G. Chincarini, F. Fiore, S. Bhushan Pandey and B.E. Cobb: GRB 081029: A Gamma-Ray Burst with a Multi-component Afterglow. Ap. J. 745, 41 (2012).

Horner, J., T.G. Müller and P.S. Lykawka: (1173) Anchises - thermophysical and dynamical studies of a dynamically unstable Jovian Trojan. Mon. Not. R. Astron. Soc. 423, 2587-2596 (2012).

Hou, A., L.C. Parker, D.J. Wilman, S.L. McGee, W.E. Harris, J.L. Connelly, M.L. Balogh, J.S. Mulchaey and R.G. Bower: Substructure in the most massive GEEC groups: field-like populations in dynamically active groups. Mon. Not. R. Astron. Soc. 421, 3594-3611 (2012).

Ikeda, H., T. Nagao, K. Matsuoka, Y. Taniguchi, Y. Shioya, M. Kajisawa, M. Enoki, P Capak, F. Civano, A.M. Koekemoer, D. Masters, T. Morokuma, M. Salvato, E. Schinnerer and N.Z. Scoville: Constraints on the Faint End of the Quasar Luminosity Function at z ~ 5 in the COSMOS Field. Ap. J. 756, 160, (2012).

Isbary, G, J. Koeritzer, A. Mitra, Y.-F. Li, T. Shimizu, J. Schroeder, I. Höpner, T.G. Klämpfl, G.E. Morfill and J.L. Zimmermann: Ex vivo human skin experiments for the evaluation of safety of new cold atmospheric plasma devices. Clinical Plasma Medicine, published online: http://dx.doi.org/10.1016/j.cpme.2012.10.001, (2012).

Isbary, G., J. Heinlin, T. Shimizu, J.L. Zimmermann, G. Morfill, H.U. Schmidt, R. Monetti, B. Steffes, W. Bunk, Y. Li, T. Klaempfl, S. Karrer, M. Landthaler and W. Stolz: Successful and safe use of 2 min cold atmospheric argon plasma in chronic wounds: results of a randomized controlled trial. British Journal of Dermatology 167, 404-410 (2012).

Ivlev, A.V. and D.I. Zhukhovitskii: The drag force on a subsonic projectile in a fluid complex plasma. Phys. Plasmas 19, 093703 (2012).

Iwasawa, K., V. Mainieri, M. Brusa, A. Comastri, R. Gilli, C. Vignali, G. Hasinger, D.B. Sanders, N. Cappelluti, C.D. Impey, A. Koekemoer, G. Lanzuisi, E. Lusso, A. Merloni, M. Salvato, Y. Taniguchi and J.R. Trump: Fe K emission from active galaxies in the COSMOS field. Astron. Astrophys. 537, A86 (2012).

Jeeson-Daniel, A., B. Ciardi, U. Maio, M. Pierleoni, M. Dijkstra and A. Maselli: Effect of intergalactic medium on the observability of Lyα emitters during cosmic reionization. Mon. Not. R. Astron. Soc. 424, 2193-2212 (2012).

Jelić, V., V. Smolčić, A. Finoguenov, M. Tanaka, F. Civano, E. Schinnerer, N. Cappelluti and A. Koekemoer: Extended X-ray emission from non-thermal sources in the COSMOS field: a detailed study of a large radio galaxy at z= 1.168. Mon. Not. R. Astron. Soc. 423, 2753-2763 (2012).

Johannsen, T., D. Psaltis, S. Gillessen, D.P. Marrone, F. Özel, S.S. Doeleman and V.L. Fish: Masses of nearby Supermassive Black Holes with Very Long Baseline Interferometry. Ap. J. 758, 30 (2012).

Johansson, L.C., D. Arnlund, T.A. White, G. Katona, D.P. De Ponte, U. Weierstall, R.B. Doak, R.L. Shoeman, L. Lomb, E. Malmerberg, J. Davidsson, K. Nass, M. Liang, J. Andreasson, A. Aquila, S. Bajt, M. Barthelmess, A. Barty, M.J. Bogan, C. Bostedt, J.D. Bozek, C. Caleman, R. Coffee, N. Coppola, T. Ekeberg, S.W. Epp, B. Erk, H. Fleckenstein, L. Foucar, H. Graafsma, L. Gumprecht, J. Hajdu, C.Y. Hampton, R. Hartmann, A. Hartmann, G. Hauser, H. Hirsemann, P. Holl, M.S. Hunter, S. Kassemeyer, N. Kimmel, R.A. Kirian, F.R. N.C. Maia, S. Marchesini, A.V. Martin, C. Reich, D. Rolles, B. Rudek, A. Rudenko, I. Schlichting, J. Schulz, M.M. Seibert, R.G. Sierra, H. Soltau, D. Starodub, F. Stellato, S. Stern, L. Strüder,.N. Timneanu, J. Ullrich, W.Y. Wahlgren, X. Wang, G. Weidenspointner, C. Wunderer, P. Fromme, H.N. Chapman, J.C. H. Spence and R. Neutze: Lipidic phase membrane protein serial femtosecond crystallography. Nature Methods 9, 263-265 (2012).

Jørgensen, J.K., C. Favre, S.E. Bisschop, T.L. Bourke, E.F. van Dishoeck and M. Schmalzl: Detection of the Simplest Sugar, Glycolaldehyde, in a Solar-type Protostar with ALMA. Ap. J. Lett. 757, L4 (2012).

Kartaltepe, J.S., M. Dickinson, D.M. Alexander, E.F. Bell, T. Dahlen, D. Elbaz, S.M. Faber, J. Lotz, D.H. McIntosh, T. Wiklind, B. Altieri, H. Aussel, M. Bethermin, F. Bournaud, V. Charmandaris, C.J. Conselice, A. Cooray, H. Dannerbauer, R. Davé, J. Dunlop, A. Dekel, H.C. Ferguson, N.A. Grogin, H.S. Hwang, R. Ivison, D. Kocevski, A. Koekemoer, D.C. Koo, K. Lai, R. Leiton, R.A. Lucas, D. Lutz, G. Magdis, B. Magnelli, G. Morrison, M. Mozena, J. Mullaney, J.A. Newman, A. Pope, P. Popesso, A. van der Wel, B. Weiner and S. Wuyts: GOODS-Herschel and CANDELS: The Morphologies of Ultraluminous Infrared Galaxies at z ~ 2. Ap. J. 757, 23 (2012).

Kassemeyer, S., J. Steinbrener, L. Lomb, E. Hartmann, A. Aquila, A. Barty, A.V. Martin, C.Y. Hampton, S. Bajt, M. Barthelmess, T.R.M. Barends, C. Bostedt, M. Bott, J.D. Bozek, N. Coppola, M. Cryle, D.P. Deponte, R.B. Doak, S.W. Epp, B. Erk, H. Fleckenstein, L. Foucar, H. Graafsma, L. Gumprecht, A. Hartmann, R. Hartmann, G. Hauser, H. Hirsemann, A. Hömke, P. Holl, O. Jönsson, N. Kimmel, F. Krasniqi, M. Liang, F.R.N.C. Maia, S. Marchesini, K. Nass, C. Reich, D. Rolles, B. Rudek, A. Rudenko, C. Schmidt, J. Schulz, R.L. Shoeman, R.G. Sierra, H. Soltau, J.C.H. Spence, D. Starodub, F. Stellato, S. Stern, G. Stier, M. Svenda, G. Weidenspointner, U. Weierstall, T.A. White, C. Wunderer, M. Frank, H.N. Chapman, J. Ullrich, L. Strüder, M.J. Bogan and I. Schlichting: Femtosecond free-electron laser x-ray diffraction data sets for algorithm development. Optics Express 20, 4149 (2012).

Kasuga, T., F. Usui, S. Hasegawa, D. Kuroda, T. Ootsubo, T.G. Müller and M. Ishiguro: AKARI/AcuA Physical Studies of the Cybele Asteroid Family. Astron. J. 143, 141 (2012).

Kauffmann, G., C. Li, J. Fu, A. Saintonge, B. Catinella, L.J. Tacconi, C. Kramer, R. Genzel, S. Moran and D. Schiminovich: COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - III. Comparison with semi-

analytic models of galaxy formation. Mon. Not. R. Astron. Soc. 422, 997-1006 (2012).

Kaur, A., M. Henze, F. Haberl, W. Pietsch, J. Greiner, A. Rau, D.H. Hartmann, G. Sala and M. Hernanz: CXOM31 J004253.1+411422: the first ultraluminous X-ray transient in M 31. Astron. Astrophys. 538, A49 (2012).

Kazin, E.A., A.G. Sánchez and M.R. Blanton: Improving measurements of H(z) and $D_A(z)$ by analysing clustering anisotropies. Mon. Not. R. Astron. Soc. 419, 3223-3243 (2012).

Kelly, B.C. and A. Merloni: Mass Functions of Supermassive Black Holes across Cosmic Time. Adv. Astron. 970858 (2012).

Khrapak, S.A. and G.E. Morfill: Ionization enhanced ion collection by a small floating grain in plasmas. Phys. Plasmas 19, 024510 (2012).

Khrapak, S.A. and G.E. Morfill: fcc-bcc-fluid triple point for model pair interactions with variable softness. Europhys. Lett. 100, 66004, (2012).

Khrapak, S.A., B.A. Klumov, P. Huber, V.I. Molotkov, A.M. Lipaev, V.N. Naumkin, A.V. Ivlev, H.M. Thomas, M. Schwabe, G.E. Morfill, O.F. Petrov, V.E. Fortov, Y. Malentschenko and S. Volkov: Fluid-solid phase transitions in three-dimensional complex plasmas under microgravity conditions. Physical Review E 85, 066407 (2012).

Khrapak, S.A., O.S. Vaulina and G.E. Morfill: Self-diffusion in strongly coupled Yukawa systems (complex plasmas). Phys. Plasmas 19, 034503 (2012).

Khrapak, S.A., P. Tolias, S. Ratynskaia, M. Chaudhuri, A. Zobnin, A. Usachev, C. Rau, M.H. Thoma, O.F. Petrov, V.E. Fortov and G.E. Morfill: Grain charging in an intermediately collisional plasma. EPL (Europhysics Letters) 97, 35001 (2012).

Kirkpatrick, A., A. Pope, D.M. Alexander, V. Charmandaris, E. Daddi, M. Dickinson, D. Elbaz, J. Gabor, H.S. Hwang, R. Ivison, J. Mullaney, M. Pannella, D. Scott, B. Altieri, H. Aussel, F. Bournaud, V. Buat, D. Coia, H. Dannerbauer, K. Dasyra, J. Kartaltepe, R. Leiton, L. Lin, G. Magdis, B. Magnelli, G. Morrison, P. Popesso and I. Valtchanov: GOODS-Herschel: Impact of Active Galactic Nuclei and Star Formation Activity on Infrared Spectral Energy Distributions at High Redshift. Ap. J. 759, 139 (2012).

Klein, K., A.M. Gigler, T. Aschenbrenner, R. Monetti, W. Bunk, F. Jamitzky, G. Morfill, R.W. Stark and J. Schlegel: Label-Free Live-Cell Imaging with Confocal Raman Microscopy. Biophysical Journal 102, 360-368 (2012).

Klämpfl, T.G., G. Isbary, T. Shimizu, Y.-F. Li, J.L. Zimmermann, W. Stolz, J. Schlegel, G.E. Morfill and H.-U. Schmidt: Cold atmospheric air plasma sterilization against spores and other microorganisms of clinical interest. Journal of Applied and Environmental Microbiology 78, 5077-5082 (2012).

Kocevski, D.D., S.M. Faber, M. Mozena, A.M. Koekemoer, K. Nandra, C. Rangel, E.S. Laird, M. Brusa, S. Wuyts, J.R. Trump, D.C. Koo, R.S. Somerville, E.F. Bell, J.M. Lotz, D.M. Alexander, F. Bournaud, C.J. Conselice, T. Dahlen, A. Dekel, J.L. Donley, J.S. Dunlop, A. Finoguenov, A. Georgakakis, M. Giavalisco, Y. Guo, N.A. Grogin, N.P. Hathi, S. Juneau, J.S. Kartaltepe, R.A. Lucas, E.J. McGrath, D.H. McIntosh, B. Mobasher, A.R. Robaina, D. Rosario, A.N. Straughn, A. van der Wel and C. Villforth: CANDELS: Constraining the AGN-Merger Connection with Host Morphologies at z ~ 2. Ap. J. 744, 148 (2012).

Koch, A., A. Burkert, R.M. Rich, M.L.M. Collins, C.S. Black, M. Hilker and A.J. Benson: Threshing in Action: The Tidal Disruption of a Dwarf Galaxy by the Hydra I Cluster. Ap. J. Lett. 755, L13 (2012).

Kohl, M., A.V. Ivlev, P. Brandt, G.E. Morfill and H. Löwen: Microscopic theory for anisotropic pair correlations in driven binary mixtures. Journal of Physics Condensed Matter 24, 4115 (2012).

Kompaneets, R., A.V. Ivlev, S.V. Vladimirov and G.E. Morfill: Instability of ion kinetic waves in a weakly ionized plasma. Physical Review E 85, 026412 (2012).

Koopmann, R., K. Cupelli, L. Redecke, K. Nass, D.P. de Ponte, T.A. White, F. Stellato, D. Rehders, M. Liang, J. Andreasson, A. Aquila, S. Bajt, M. Barthelmess, A. Barty, M.J. Bogan, C. Bostedt, S. Boutet, J.D. Bozek, C. Caleman, N. Coppola, J. Davidsson, R.B. Doak, T. Ekeberg, S.W. Epp, B. Erk, H. Fleckenstein, L. Foucar, H. Graafsma, L. Gumprecht, J. Hajdu, C.Y. Hampton, A. Hartmann, R. Hartmann, G. Hauser, H. Hirsemann, P. Holl, M.S. Hunter, S. Kassemeyer, R.A. Kirian, L. Lomb, F.R. N.C. Maia, N. Kimmel, A.V. Martin, M. Messerschmidt, C. Reich, D. Rolles, B. Rudek, A. Rudenko, I. Schlichting, J. Schulz, M.M. Seibert, R.L. Shoeman, R.G. Sierra, H. Soltau, S. Stern, L. Strüder, N. Timneanu, J. Ullrich, X. Wang, G. Weidenspointner, U. Weierstall, G.J. Williams, C.B. Wunderer, P. Fromme, J.C. H. Spence, T. Stehle, H.N. Chapman, C. Betzel and M. Duszenko: In vivo protein crystallization opens new routes in structural biology. Nature Methods 9, 259-262 (2012).

Kormendy, J. and R. Bender: A Revised Parallel-sequence Morphological Classification of Galaxies: Structure and Formation of S0 and Spheroidal Galaxies. Ap. J. Supp. Ser. 198, 2 (2012).

Krause, M., C. Charbonnel, T. Decressin, G. Meynet, N. Prantzos and R. Diehl: Superbubble dynamics in globular cluster infancy. I. How do globular clusters first lose their cold gas?. Astron. Astrophys. 546, L5 (2012).

Krause, M., M. Schartmann and A. Burkert: Magnetohydrodynamic stability of broad line region clouds. Mon. Not. R. Astron. Soc. 425, 3172-3187 (2012).

Krause, M.G.H., P. Alexander, J. Riley and D. Hopton: A new connection between the opening angle and the large-scale morphology of extragalactic radio sources. Mon. Not. R. Astron. Soc. 427, 3196-3298 (2012).

Kristensen, L.E., E.F. van Dishoeck, E.A. Bergin, R. Visser, U.A. Yildiz, I. San Jose-Garcia, J.K. Jørgensen, G.J. Herczeg, D. Johnstone, S.F. Wampfler, A.O. Benz, S. Bruderer, S. Cabrit, P. Caselli, S.D. Doty, D. Harsono, F. Herpin, M.R. Hogerheijde, A. Karska, T.A. van Kempen, R. Liseau, B. Nisini, M. Tafalla, F. van der Tak and F. Wyrowski: Water in star-forming regions with Herschel (WISH). II. Evolution of 557 GHz 1_{10}-1_{01} emission in low-

mass protostars. Astron. Astrophys. 542, A8 (2012).

Lablanche, P.-Y., M. Cappellari, E. Emsellem, F. Bournaud, L. Michel-Dansac, K. Alatalo, L. Blitz, M. Bois, M. Bureau, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, S. Khochfar, D. Krajnović, H. Kuntschner, R. Morganti, R.M. McDermid, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: The ATLAS 3D project - XII. Recovery of the mass-to-light ratio of simulated early-type barred galaxies with axisymmetric dynamical models. Mon. Not. R. Astron. Soc. 424, 1495-1521 (2012).

Lampe, M., T.B. Röcker, G. Joyce, S.K. Zhdanov, A.V. Ivlev and G.E. Morfill: Ion distribution function in a plasma with uniform electric field. Phys. Plasmas 19, 113703 (2012).

Lauer, T.R., R. Bender, J. Kormendy, P. Rosenfield and R.F. Green: The Cluster of Blue Stars Surrounding the M31 Nuclear Black Hole. Ap. J. 745, 121 (2012).

Leauthaud, A., J. Tinker, K. Bundy, P.S. Behroozi, R. Massey, J. Rhodes, M.R. George, J.-P. Kneib, A. Benson, R.H. Wechsler, M.T. Busha, P. Capak, M. Cortês, O. Ilbert, A.M. Koekemoer, O. Le Fèvre, S. Lilly, H.J. McCracken, M. Salvato, T. Schrabback, N. Scoville, T. Smith and J.E. Taylor: New Constraints on the Evolution of the Stellar-to-dark Matter Connection: A Combined Analysis of Galaxy-Galaxy Lensing, Clustering, and Stellar Mass Functions from z = 0.2 to z =1. Ap. J. 744, 159 (2012).

Leauthaud, A., M.R. George, P.S. Behroozi, K. Bundy, J. Tinker, R.H. Wechsler, C. Conroy, A. Finoguenov and M. Tanaka: The Integrated Stellar Content of Dark Matter Halos. Ap. J. 746, 95 (2012).

Lebouteiller, V., D. Cormier, S.C. Madden, F. Galliano, R. Indebetouw, N. Abel, M. Sauvage, S. Hony, A. Contursi, A. Poglitsch, A. Rémy, E. Sturm and R. Wu: Physical conditions in the gas phases of the giant H II region LMC-N 11 unveiled by Herschel. I. Diffuse [C II] and [O III] emission in LMC-N 11B. Astron. Astrophys. 548, A91 (2012).

Lee, C.-H., A. Riffeser, J. Koppenhoefer, S. Seitz, R. Bender, U. Hopp, C. Gössl, R.P. Saglia, J. Snigula, W.E. Sweeney, W.S. Burgett, K.C. Chambers, T. Grav, J.N. Heasley, K.W. Hodapp, N. Kaiser, E.A. Magnier, J.S. Morgan, P.A. Price, C.W. Stubbs, J.L. Tonry and R.J. Wainscoat: PAndromeda—First Results from the High-cadence Monitoring of M31 with Pan-STARRS 1. Astron. J. 143, 89 (2012).

Lee, C.-H., A. Riffeser, S. Seitz, R. Bender, J. Fliri, U. Hopp, C. Ries, O. Bärnbantner and C. Gössl: The Wendelstein Calar Alto Pixellensing Project (WeCAPP): the M 31 nova catalogue. Astron. Astrophys. 537, A43 (2012).

Lehmer, B.D., Y.Q. Xue, W.N. Brandt, D.M. Alexander, F.E. Bauer, M. Brusa, A. Comastri, R. Gilli, A.E. Hornschemeier, B. Luo, M. Paolillo, A. Ptak, O. Shemmer, D.P. Schneider, P. Tozzi and C. Vignali: The 4 Ms Chandra Deep Field-South Number Counts Apportioned by Source Class: Pervasive Active Galactic Nuclei and the Ascent of Normal Galaxies. Ap. J. 752, 46 (2012).

Leyrat, C., A. Barucci, T. Mueller, L. O'Rourke, I. Valtchanov and S. Fornasier: Thermal properties of (4) Vesta derived from Herschel measurements. Astron. Astrophys. 539, A154 (2012).

Li, Y.-F., J.L. Zimmermann and G.E. Morfill: Optimizing the distance for bacterial treatment using surface microdischarge plasma. New J. Phys. 14, 023058 (2012).

Li, Y.-F., J.L. Zimmermann, T. Klämpfl and G. Morfill: Guiding of Reactive Plasma Species by Micro-Channels. Plasma Processes and Polymers 9, 1001-1005 (2012).

Li, Y.F., T. Shimizu, J.L. Zimmermann and G.E. Morfill: Cold Atmospheric Plasma for Surface Disinfection. Plasma Processes and Polymers 9, 585-589 (2012).

Liao, J., L.M. Kistler, C.G. Mouikis, B. Klecker and I. Dandouras: Solar cycle dependence of the cusp O^+ access to the near-Earth magnetotail. J. Geophys. Res. (Space Phys.) 117, 10220 (2012).

Lin, L., E. Göğüş, M.G. Baring, J. Granot, C. Kouveliotou, Y. Kaneko, A. van der Horst, D. Gruber, A. von Kienlin, G. Younes, A.L. Watts and N. Gehrels: Broadband Spectral Investigations of SGR J1550-5418 Bursts. Ap. J. 756, 54 (2012).

Linares, M., V. Connaughton, P. Jenke, A.J. van der Horst, A. Camero-Arranz, C. Kouveliotou, D. Chakrabarty, E. Beklen, P.N. Bhat, M.S. Briggs, M. Finger, W.S. Paciesas, R. Preece, A. von Kienlin and C.A. Wilson-Hodge: The Fermi-GBM X-Ray Burst Monitor: Thermonuclear Bursts from 4U 0614+09. Ap. J. 760, 133 (2012).

Liseau, R., P.F. Goldsmith, B. Larsson, L. Pagani, P. Bergman, J. Le Bourlot, T.A. Bell, A.O. Benz, E.A. Bergin, P. Bjerkeli, J.H. Black, S. Bruderer, P. Caselli, E. Caux, J.-H. Chen, M. de Luca, P. Encrenaz, E. Falgarone, M. Gerin, J.R. Goicoechea, Å. Hjalmarson, D.J. Hollenbach, K. Justtanont, M.J. Kaufman, F. Le Petit, D. Li, D.C. Lis, G.J. Melnick, Z. Nagy, A.O.H. Olofsson, G. Olofsson, E. Roueff, A. Sandqvist, R.L. Snell, F.F.S. van der Tak, E.F. van Dishoeck, C. Vastel, S. Viti and U.A. Yildiz: Multi-line detection of O_2 toward ρ Ophuichi A. Astron. Astrophys. 541, A73 (2012).

Loh, N.D., C.Y. Hampton, A.V. Martin, D. Starodub, R.G. Sierra, A. Barty, A. Aquila, J. Schulz, L. Lomb, J. Steinbrener, R.L. Shoeman, S. Kassemeyer, C. Bostedt, J. Bozek, S.W. Epp, B. Erk, R. Hartmann, D. Rolles, A. Rudenko, B. Rudek, L. Foucar, N. Kimmel, G. Weidenspointner, G. Hauser, P. Holl, E. Pedersoli, M. Liang, M.S. Hunter, L. Gumprecht, N. Coppola, C. Wunderer, H. Graafsma, F.R. N.C. Maia, T. Ekeberg, M. Hantke, H. Fleckenstein, H. Hirsemann, K. Nass, T.A. White, H.J. Tobias, G.R. Farquar, W.H. Benner, S.P. Hau-Riege, C. Reich, A. Hartmann, H. Soltau, S. Marchesini, S. Bajt, M. Barthelmess, P. Bucksbaum, K.O. Hodgson, L. Strüder, J. Ullrich, M. Frank, I. Schlichting, H.N. Chapman and M.J. Bogan: Fractal morphology, imaging and mass spectrometry of single aerosol particles in flight. Nature 486, 513-517 (2012).

López-Sanjuan, C., O. Le Fèvre, O. Ilbert, ..., A. Bongiorno, et al.: The dominant role of mergers in the size evolution of massive early-type galaxies since z ~ 1. Astron. Astrophys. 548, A7 (2012).

Löwen, H., E. Allahyarov, A. Ivlev and G.E. Morfill: Heterogeneous crystallization in colloids and complex plasmas:

the role of binary mobilities. Journal of Physics Condensed Matter 24, B4125 (2012).

Lusso, E., A. Comastri, B.D. Simmons, M. Mignoli, G. Zamorani, C. Vignali, M. Brusa, F. Shankar, D. Lutz, J.R. Trump, R. Maiolino, R. Gilli, M. Bolzonella, S. Puccetti, M. Salvato, C.D. Impey, F. Civano, M. Elvis, V. Mainieri, J.D. Silverman, A.M. Koekemoer, A. Bongiorno, A. Merloni, S. Berta, E. Le Floc'h, B. Magnelli, F. Pozzi and L. Riguccini: Bolometric luminosities and Eddington ratios of X-ray selected active galactic nuclei in the XMM-COSMOS survey. Mon. Not. R. Astron. Soc. 425, 623-640 (2012).

Lyskova, N., E. Churazov, I. Zhuravleva, T. Naab, L. Oser, O. Gerhard and X. Wu: Testing a simple recipe for estimating galaxy masses from minimal observational data. Mon. Not. R. Astron. Soc. 423, 1813-1824 (2012).

Maeda, K., Y. Terada, D. Kasen, F.K. Röpke, A. Bamba, R. Diehl, K. Nomoto, M. Kromer, I.R. Seitenzahl, H. Yamaguchi, T. Tamagawa and W. Hillebrandt: Prospect of Studying Hard X- and Gamma-Rays from Type Ia Supernovae. Ap. J. 760, 54 (2012).

Maggi, P., F. Haberl, L.M. Bozzetto, M.D. Filipović, S.D. Points, Y.-H. Chu, M. Sasaki, W. Pietsch, R.A. Gruendl, J. Dickel, R.C. Smith, R. Sturm, E.J. Crawford and A.Y. De Horta: Multi-frequency study of supernova remnants in the Large Magellanic Cloud. Confirmation of the supernova remnant status of DEM L205. Astron. Astrophys. 546, A109 (2012).

Maggi, P., F. Haberl, R. Sturm and D. Dewey: XMM-Newton observations of SNR 1987A. II. The still increasing X-ray light curve and the properties of Fe K lines. Astron. Astrophys. 548, L3 (2012).

Magnelli, B., A. Saintonge, D. Lutz, L.J. Tacconi, S. Berta, F. Bournaud, V. Charmandaris, H. Dannerbauer, D. Elbaz, N.M. Förster-Schreiber, J. Graciá-Carpio, R. Ivison, R. Maiolino, R. Nordon, P. Popesso, G. Rodighiero, P. Santini and S. Wuyts: Dust temperature and CO $\rightarrow H_2$ conversion factor variations in the SFR-M_* plane. Astron. Astrophys. 548, A22 (2012).

Magnelli, B., D. Lutz, P. Santini, A. Saintonge, S. Berta, M. Albrecht, B. Altieri, P. Andreani, H. Aussel, F. Bertoldi, M. Béthermin, A. Bongiovanni, P. Capak, S. Chapman, J. Cepa, A. Cimatti, A. Cooray, E. Daddi, A.L.R. Danielson, H. Dannerbauer, J.S. Dunlop, D. Elbaz, D. Farrah, N.M. Förster Schreiber, R. Genzel, H.S. Hwang, E. Ibar, R.J. Ivison, E. Le Floc'h, G. Magdis, R. Maiolino, R. Nordon, S.J. Oliver, A. Pérez García, A. Poglitsch, P. Popesso, F. Pozzi, L. Riguccini, G. Rodighiero, D. Rosario, I. Roseboom, M. Salvato, M. Sanchez-Portal, D. Scott, I. Smail, E. Sturm, A.M. Swinbank, L.J. Tacconi, I. Valtchanov, L. Wang and S. Wuyts: A Herschel view of the far-infrared properties of submillimetre galaxies. Astron. Astrophys. 539, A155 (2012).

Maio, U. and S. Khochfar: The imprint of cosmological non-Gaussianities on primordial structure formation. Mon. Not. R. Astron. Soc. 421, 1113-1122 (2012).

Maio, U., R. Salvaterra, L. Moscardini and B. Ciardi: Counts of high-redshift GRBs as probes of primordial non-Gaussianities. Mon. Not. R. Astron. Soc. 426, 2078-2088 (2012).

Maiolino, R., S. Gallerani, R. Neri, C. Cicone, A. Ferrara, R. Genzel, D. Lutz, E. Sturm, L.J. Tacconi, F. Walter, C. Feruglio, F. Fiore and E. Piconcelli: Evidence of strong quasar feedback in the early Universe. Mon. Not. R. Astron. Soc. 425, L66-L70 (2012).

Maisch, T, T Shimizu, A Mitra, J Heinlin, S Karrer, Y-F Li, G Morfill and J Zimmermann: Contact-free cold atmospheric plasma treatment of Deinococcus radiodurans. Journal of Industrial Microbiology & Biotechnology 39, 1367-1375 (2012).

Maisch, T., T. Shimizu, Y.-F. Li, J. Heinlin, S. Karrer, G. Morfill and J. Zimmermann: Decolonisation of MRSA, S. aureus and E. coli by cold-atmospheric plasma using a porcine skin model in vitro. PILoS One 7, e34610, (2012).

Mallery, R.P., B. Mobasher, P. Capak, Y. Kakazu, D. Masters, O. Ilbert, S. Hemmati, C. Scarlata, M. Salvato, H. McCracken, O. Le Fevre and N. Scoville: Lyα Emission from High-redshift Sources in COSMOS. Ap. J. 760, 128 (2012).

Man, A.W.S., S. Toft, A.W. Zirm, S. Wuyts and A. van der Wel: The Pair Fraction of Massive Galaxies at 0 <= z <= 3. Ap. J. 744, 85 (2012).

Mandell, A.M., J. Bast, E.F. van Dishoeck, G.A. Blake, C. Salyk, M.J. Mumma and G. Villanueva: First Detection of Near-infrared Line Emission from Organics in Young Circumstellar Disks. Ap. J. 747, 92 (2012).

Marcus, G., W. Helml, X. Gu, Y. Deng, R. Hartmann, T. Kobayashi, L. Strueder, R. Kienberger and F. Krausz: Subfemtosecond K-Shell Excitation with a Few-Cycle Infrared Laser Field. Phys. Rev. Lett. 108, 023201 (2012).

Margutti, R., E. Berger, W. Fong, B.A. Zauderer, S.B. Cenko, J. Greiner, A.M. Soderberg, A. Cucchiara, A. Rossi, S. Klose, S. Schmidl, D. Milisavljevic and N. Sanders: The Afterglow and Environment of the Short GRB 111117A. Ap. J. 756, 63 (2012).

Martin, A.V., F. Wang, N.D. Loh, T. Ekeberg, F.R.N.C. Maia, M. Hantke, G. van der Schot, C.Y. Hampton, R.G. Sierra, A. Aquila, S. Bajt, M. Barthelmess, C. Bostedt, J.D. Bozek, N. Coppola, S.W. Epp, B. Erk, H. Fleckenstein, L. Foucar, M. Frank, H. Graafsma, L. Gumprecht, A. Hartmann, R. Hartmann, G. Hauser, H. Hirsemann, P. Holl, S. Kassemeyer, N. Kimmel, M. Liang, L. Lomb, S. Marchesini, K. Nass, E. Pedersoli, C. Reich, D. Rolles, B. Rudek, A. Rudenko, J. Schulz, R.L. Shoeman, H. Soltau, D. Starodub, J. Steinbrener, F. Stellato, L. Strüder, J. Ullrich, G. Weidenspointner, T.A. White, C.B. Wunderer, A. Barty, I. Schlichting, M.J. Bogan and H.N. Chapman: Noise-robust coherent diffractive imaging with a single diffraction pattern. Optics Express 20, 16650 (2012).

Martin, A.V., N.D. Loh, C.Y. Hampton, R.G. Sierra, F. Wang, A. Aquila, S. Bajt, M. Barthelmess, C. Bostedt, J.D. Bozek, N. Coppola, S.W. Epp, B. Erk, H. Fleckenstein, L. Foucar, M. Frank, H. Graafsma, L. Gumprecht, A. Hartmann, R. Hartmann, G. Hauser, H. Hirsemann, P. Holl, S. Kassemeyer, N. Kimmel, M. Liang, L. Lomb, F.R.N.C. Maia, S. Marchesini, K. Nass, E. Pedersoli, C. Reich, D. Rolles, B. Rudek, A. Rudenko, J. Schulz, R.L. Shoeman,

H. Soltau, D. Starodub, J. Steinbrener, F. Stellato, L. Strüder, J. Ullrich, G. Weidenspointner, T.A. White, C.B. Wunderer, A. Barty, I. Schlichting, M.J. Bogan and H.N. Chapman: Femtosecond dark-field imaging with an X-ray free electron laser. Optics Express 20, 13501 (2012).

Martin, P., A.W. Strong, P. Jean, A. Alexis and R. Diehl: Galactic annihilation emission from nucleosynthesis positrons. Astron. Astrophys. 543, A3 (2012).

Martin-Carrillo, A., M.G.F. Kirsch, I. Caballero, M.J. Freyberg, A. Ibarra, E. Kendziorra, U. Lammers, K. Mukerjee, G. Schönherr, M. Stuhlinger, R.D. Saxton, R. Staubert, S. Suchy, A. Wellbrock, N. Webb and M. Guainazzi: The relative and absolute timing accuracy of the EPIC-pn camera on XMM-Newton, from X-ray pulsations of the Crab and other pulsars. Astron. Astrophys. 545, A126 (2012).

Martinez, P., C. Loose, E. Aller Carpentier and M. Kasper: Speckle temporal stability in XAO coronagraphic images. Astron. Astrophys. 541, A136, (2012).

Martins, F., N.M. Förster Schreiber, F. Eisenhauer and D. Lutz: Near-infrared spectroscopy of the super star cluster in NGC 1705. Astron. Astrophys. 547, A17 (2012).

Masters, D., P. Capak, M. Salvato, F. Civano, B. Mobasher, B. Siana, G. Hasinger, C.D. Impey, T. Nagao, J.R. Trump, H. Ikeda, M. Elvis and N. Scoville: Evolution of the Quasar Luminosity Function over 3 < z < 5 in the COSMOS Survey Field. Ap. J. 755, 169 (2012).

Matsukiyo, S., and M. Scholer: Dynamics of energetic electrons in nonstationary quasi-perpendicular shocks, J. Geophys. Res. 117, A11105 (2012).

Mazzarella, J.M., K. Iwasawa, T. Vavilkin, L. Armus, D.-C. Kim, G. Bothun, A.S. Evans, H.W.W. Spoon, S. Haan, J.H. Howell, S. Lord, J.A. Marshall, C.M. Ishida, C.K. Xu, A. Petric, D.B. Sanders, J.A. Surace, P. Appleton, B.H.P. Chan, D.T. Frayer, H. Inami, E.Y. Khachikian, B.F. Madore, G.C. Privon, E. Sturm, V. U and S. Veilleux: Investigation of Dual Active Nuclei, Outflows, Shock-heated Gas, and Young Star Clusters in Markarian 266. Astron. J. 144, 125 (2012).

McCarthy, I.G., J. Schaye, A.S. Font, T. Theuns, C.S. Frenk, R.A. Crain and C. Dalla Vecchia: Rotation rates, sizes and star formation efficiencies of a representative population of simulated disc galaxies. Mon. Not. R. Astron. Soc. 427, 379-392 (2012).

McDonald, M., M. Bayliss, B.A. Benson, ..., S. Veilleux, ..., J.J. Mohr, et al.: A massive, cooling-flow-induced starburst in the core of a luminous cluster of galaxies. Nature 488, 349-352 (2012).

McNeil-Moylan, E.K., K.C. Freeman, M. Arnaboldi and O.E. Gerhard: Planetary nebula kinematics in NGC 1316: a young Sombrero. Astron. Astrophys. 539, A11 (2012).

Mei, S., S.A. Stanford, B.P. Holden, A. Raichoor, M. Postman, F. Nakata, A. Finoguenov, H.C. Ford, G.D. Illingworth, T. Kodama, P. Rosati, M. Tanaka, M. Huertas-Company, A. Rettura, F. Shankar, E.R. Carrasco, R. Demarco, P. Eisenhardt, M.J. Jee, Y. Koyama and R.L. White: Early-type Galaxies at z = 1.3. I. The Lynx Supercluster: Cluster and Groups at z = 1.3. Morphology and Color-Magnitude Relation. Ap. J. 754, 141 (2012).

Melin, J.-B., N. Aghanim, M. Bartelmann, J.G. Bartlett, M. Betoule, J. Bobin, P. Carvalho, G. Chon, J. Delabrouille, J.M. Diego, D.L. Harrison, D. Herranz, M. Hobson, R. Kneissl, A.N. Lasenby, M. Le Jeune, M. Lopez-Caniego, P. Mazzotta, G.M. Rocha, B.M. Schaefer, J.-L. Starck, J.C. Waizmann and D. Yvon: A comparison of algorithms for the construction of SZ cluster catalogues. Astron. Astrophys. 548, A51 (2012).

Melnick, G.J., V. Tolls, P.F. Goldsmith, M.J. Kaufman, D.J. Hollenbach, J.H. Black, P. Encrenaz, E. Falgarone, M. Gerin, Å. Hjalmarson, D. Li, D.C. Lis, R. Liseau, D.A. Neufeld, L. Pagani, R.L. Snell, F. van der Tak and E.F. van Dishoeck: Herschel Search for O_2 toward the Orion Bar. Ap. J. 752, 26 (2012).

Messias, H., J. Afonso, M. Salvato, B. Mobasher and A.M. Hopkins: A New Infrared Color Criterion for the Selection of 0 < z < 7 AGNs: Application to Deep Fields and Implications for JWST Surveys. Ap. J. 754, 120 (2012).

Mignani, R.P., A. De Luca, W. Hummel, A. Zajczyk, B. Rudak, G. Kanbach and A. Slowikowska: The near-infrared detection of PSR B0540-69 and its nebula. Astron. Astrophys. 544, A100 (2012).

Miniutti, G., W.N. Brandt, D.P. Schneider, A.C. Fabian, L.C. Gallo and T. Boller: Insights on the X-ray weak quasar phenomenon from XMM-Newton monitoring of PHL 1092. Mon. Not. R. Astron. Soc. 425, 1718-1737 (2012).

Mitic, S., M.Y. Pustylnik, E. Kovačević, J. Berndt, L. Boufendi and G.E. Morfill: Spectroscopic characterization of micro- and nanoparticle suspensions with size dynamics in plasmas. Journal of Physics D Applied Physics 45, G5203 (2012).

Mommert, M., A.W. Harris, C. Kiss, A. Pál, P. Santos-Sanz, J. Stansberry, A. Delsanti, E. Vilenius, T.G. Müller, N. Peixinho, E. Lellouch, N. Szalai, F. Henry, R. Duffard, S. Fornasier, P. Hartogh, M. Mueller, J.L. Ortiz, S. Protopapa, M. Rengel and A. Thirouin: TNOs are cool: A survey of the trans-Neptunian region. V. Physical characterization of 18 Plutinos using Herschel-PACS observations. Astron. Astrophys. 541, A93 (2012).

Montesano, F., A.G. Sánchez and S. Phleps: Cosmological implications from the full shape of the large-scale power spectrum of the SDSS DR7 luminous red galaxies. Mon. Not. R. Astron. Soc. 421, 2656-2681 (2012).

Moran, S.M., T.M. Heckman, G. Kauffmann, R. Davé, B. Catinella, J. Brinchmann, J. Wang, D. Schiminovich, A. Saintonge, J. Gracia-Carpio, L. Tacconi, R. Giovanelli, M. Haynes, S. Fabello, C. Hummels, J. Lemonias and R. Wu: The GALEX Arecibo SDSS Survey. V. The Relation between the H I Content of Galaxies and Metal Enrichment at Their Outskirts. Ap. J. 745, 66 (2012).

Moreno, R., E. Lellouch, L.M. Lara, H. Feuchtgruber, M. Rengel, P. Hartogh and R. Courtin: The abundance, vertical distribution and origin of H_2O in Titan's atmosphere: Herschel observations and photochemical modelling. Icarus 221, 753-767 (2012).

Moresco, M., A. Cimatti, R. Jimenez, ..., A. Bongiorno, et al.: Improved constraints on the expansion rate of the Universe up to z ~ 1.1 from the spectroscopic evolution of

cosmic chronometers. J. of Cosmology and Astroparticle Phys. 8, 6 (2012).

Morfill, G.E., A.V. Ivlev and H.M. Thomas: Complex (dusty) plasmas--kinetic studies of strong coupling phenomena. Phys. Plasmas 19, 055402 (2012).

Morganson, E., G. De Rosa, R. Decarli, F. Walter, K. Chambers, I. McGreer, X. Fan, W. Burgett, H. Flewelling, J. Greiner, K. Hodapp, N. Kaiser, E. Magnier, P. Price, H.-W. Rix, B. Sweeney and C. Waters: The First High-redshift Quasar from Pan-STARRS. Astron. J. 143, 142 (2012).

Morganti, L. and O. Gerhard: Regularizing made-to-measure particle models of galaxies. Mon. Not. R. Astron. Soc. 422, 1571-1585 (2012).

Mountrichas, G. and A. Georgakakis: The clustering of X-ray-selected active galactic nuclei at z= 0.1. Mon. Not. R. Astron. Soc. 420, 514-525 (2012).

Muldrew, S.I., D.J. Croton, R.A. Skibba, F.R. Pearce, H.B. Ann, I.K. Baldry, S. Brough, Y.-Y. Choi, C.J. Conselice, N.B. Cowan, A. Gallazzi, M.E. Gray, R. Grützbauch, I.-H. Li, C. Park, S.V. Pilipenko, B.J. Podgorzec, A.S.G. Robotham, D.J. Wilman, X. Yang, Y. Zhang and S. Zibetti: Measures of galaxy environment - I. What is 'environment'?. Mon. Not. R. Astron. Soc. 419, 2670-2682 (2012).

Mullaney, J.R., M. Pannella, E. Daddi, D.M. Alexander, D. Elbaz, R.C. Hickox, F. Bournaud, B. Altieri, H. Aussel, D. Coia, H. Dannerbauer, K. Dasyra, M. Dickinson, H.S. Hwang, J. Kartaltepe, R. Leiton, G. Magdis, B. Magnelli, P. Popesso, I. Valtchanov, F.E. Bauer, W.N. Brandt, A. Del Moro, D.J. Hanish, R.J. Ivison, S. Juneau, B. Luo, D. Lutz, M.T. Sargent, D. Scott and Y.Q. Xue: GOODS-Herschel: the far-infrared view of star formation in active galactic nucleus host galaxies since z ≈ 3. Mon. Not. R. Astron. Soc. 419, 95-115 (2012).

Murphy, E.J., T.A. Porter, I.V. Moskalenko, G. Helou and A.W. Strong: Characterizing Cosmic-Ray Propagation in Massive Star-forming Regions: The Case of 30 Doradus and the Large Magellanic Cloud. Ap. J. 750, 126 (2012).

Müller, K., H. Ryll, I. Ordavo, S. Ihle, L. Strüder, K. Volz, J. Zweck, H. Soltau and A. Rosenauer: Scanning transmission electron microscopy strain measurement from millisecond frames of a direct electron charge coupled device. Applied Physics Letters 101, 212110 (2012).

Müller, T.G., L. O'Rourke, A.M. Barucci, A. Pál, C. Kiss, P. Zeidler, B. Altieri, B.M. González-García and M. Küppers: Physical properties of OSIRIS-REx target asteroid (101955) 1999 RQ_{36}. Derived from Herschel, VLT/ VISIR, and Spitzer observations. Astron. Astrophys. 548, A36 (2012).

Nasiroglu, I., A. Slowikowska, G. Kanbach and F. Haberl: Very fast photometric and X-ray observations of the intermediate polar V2069 Cygni (RX J2123.7+4217). Mon. Not. R. Astron. Soc. 420, 3350-3359 (2012).

Nefs, S.V., J.L. Birkby, I.A.G. Snellen, S.T. Hodgkin, D.J. Pinfield, B. Sipöcz, G. Kovacs, D. Mislis, R.P. Saglia, J. Koppenhoefer, P. Cruz, D. Barrado, E.L. Martin, N. Goulding, H. Stoev, J. Zendejas, C. del Burgo, M. Cappetta and Y.V. Pavlenko: Four ultra-short-period eclipsing M-dwarf binaries in the WFCAM Transit Survey. Mon. Not. R. Astron. Soc. 425, 950-968 (2012).

Neistein, E., S. Khochfar, C. Dalla Vecchia and J. Schaye: Hydrodynamical simulations and semi-analytic models of galaxy formation: two sides of the same coin. Mon. Not. R. Astron. Soc. 421, 3579-3593 (2012).

Nelson, E.J., P.G. van Dokkum, G. Brammer, N. Förster Schreiber, M. Franx, M. Fumagalli, S. Patel, H.-W. Rix, R.E. Skelton, R. Bezanson, E. Da Cunha, M. Kriek, I. Labbe, B. Lundgren, R. Quadri and K.B. Schmidt: Spatially Resolved Hα Maps and Sizes of 57 Strongly Star-forming Galaxies at z ~ 1 from 3D-HST: Evidence for Rapid Inside-out Assembly of Disk Galaxies. Ap. J. Lett. 747, L28 (2012).

Neufeld, D.A., E. Roueff, R.L. Snell, D. Lis, A.O. Benz, S. Bruderer, J.H. Black, M. De Luca, M. Gerin, P.F. Goldsmith, H. Gupta, N. Indriolo, J. Le Bourlot, F. Le Petit, B. Larsson, G.J. Melnick, K.M. Menten, R. Monje, Z. Nagy, T.G. Phillips, A. Sandqvist, P. Sonnentrucker, F. van der Tak and M.G. Wolfire: Herschel Observations of Interstellar Chloronium. Ap. J. 748, 37 (2012).

Newman, S.F., K. Shapiro Griffin, R. Genzel, R. Davies, N.M. Förster-Schreiber, L.J. Tacconi, J. Kurk, S. Wuyts, S. Genel, S.J. Lilly, A. Renzini, N. Bouché, A. Burkert, G. Cresci, P. Buschkamp, C.M. Carollo, F. Eisenhauer, E. Hicks, D. Lutz, C. Mancini, T. Naab, Y. Peng and D. Vergani: Shocked Superwinds from the z ~ 2 Clumpy Star-forming Galaxy, ZC406690. Ap. J. 752, 111 (2012).

Newman, S.F., R. Genzel, N.M. Förster-Schreiber, K. Shapiro Griffin, C. Mancini, S.J. Lilly, A. Renzini, N. Bouché, A. Burkert, P. Buschkamp, C.M. Carollo, G. Cresci, R. Davies, F. Eisenhauer, S. Genel, E.K.S. Hicks, J. Kurk, D. Lutz, T. Naab, Y. Peng, A. Sternberg, L.J. Tacconi, D. Vergani, S. Wuyts and G. Zamorani: The SINS/zC-SINF Survey of z ~ 2 Galaxy Kinematics: Outflow Properties. Ap. J. 761, 43 (2012).

Nicuesa Guelbenzu, A., S. Klose, J. Greiner, D.A. Kann, T. Krühler, A. Rossi, S. Schulze, P.M.J. Afonso, J. Elliott, R. Filgas, D.H. Hartmann, A. Küpcü Yoldaş, S. McBreen, M. Nardini, F. Olivares E., A. Rau, S. Schmidl, P. Schady, V. Sudilovsky, A.C. Updike and A. Yoldaş: Multi-color observations of short GRB afterglows: 20 events observed between 2007 and 2010. Astron. Astrophys. 548, A101 (2012).

Nicuesa Guelbenzu, A., S. Klose, T. Krühler, J. Greiner, A. Rossi, D.A. Kann, F. Olivares, A. Rau, P.M.J. Afonso, J. Elliott, R. Filgas, A. Küpcü Yoldaş, S. McBreen, M. Nardini, P. Schady, S. Schmidl, V. Sudilovsky, A.C. Updike and A. Yoldaş: The late-time afterglow of the extremely energetic short burst GRB 090510 revisited. Astron. Astrophys. 538, L7 (2012).

Nidever, D.L., G. Zasowski, S.R. Majewski, J. Bird, A.C. Robin, I. Martinez-Valpuesta, R.L. Beaton, R. Schönrich, M. Schultheis, J.C. Wilson, M.F. Skrutskie, R.W. O'Connell, M. Shetrone, R.P. Schiavon, J.A. Johnson, B. Weiner, O. Gerhard, D.P. Schneider, C. Allende Prieto, K. Sellgren, D. Bizyaev, H. Brewington, J. Brinkmann, D.J. Eisenstein, P.M. Frinchaboy, A. Elia García Pérez, J. Holtzman, F.R. Hearty, E. Malanushenko, V. Malanushenko, D. Muna, D. Oravetz, K. Pan, A. Simmons, S. Snedden and B.A. Wea-

ver: The Apache Point Observatory Galactic Evolution Experiment: First Detection of High-velocity Milky Way Bar Stars. Ap. J. Lett. 755, L25 (2012).

Nikolov, N., T. Henning, J. Koppenhoefer, M. Lendl, G. Maciejewski and J. Greiner: WASP-4b transit observations with GROND. Astron. Astrophys. 539, A159 (2012).

Nordon, R., D. Lutz, R. Genzel, S. Berta, S. Wuyts, B. Magnelli, B. Altieri, P. Andreani, H. Aussel, A. Bongiovanni, J. Cepa, A. Cimatti, E. Daddi, D. Fadda, N.M. Förster Schreiber, G. Lagache, R. Maiolino, A.M. Pérez García, A. Poglitsch, P. Popesso, F. Pozzi, G. Rodighiero, D. Rosario, A. Saintonge, M. Sanchez-Portal, P. Santini, E. Sturm, L.J. Tacconi, I. Valtchanov and L. Yan: The Impact of Evolving Infrared Spectral Energy Distributions of Galaxies on Star Formation Rate Estimates. Ap. J. 745, 182 (2012).

Nosenko, V., A.V. Ivlev and G.E. Morfill: Microstructure of a Liquid Two-Dimensional Dusty Plasma under Shear. Phys. Rev. Lett. 108, 135005 (2012).

O'Rourke, L., T. Müller, I. Valtchanov, B. Altieri, B.M. González-Garcia, B. Bhattacharya, L. Jorda, B. Carry, M. Küppers, O. Groussin, K. Altwegg, M.A. Barucci, D. Bockelee-Morvan, J. Crovisier, E. Dotto, P. Garcia-Lario, M. Kidger, A. Llorente, R. Lorente, A.P. Marston, M. Sanchez Portal, R. Schulz, M. Sierra, D. Teyssier and R. Vavrek: Thermal and shape properties of asteroid (21) Lutetia from Herschel observations around the Rosetta flyby. Planet. Space Sci. 66, 192-199 (2012).

Oates, S.R., M.J. Page, M. De Pasquale, P. Schady, A.A. Breeveld, S.T. Holland, N.P.M. Kuin and F.E. Marshall: A correlation between the intrinsic brightness and average decay rate of Swift/UVOT gamma-ray burst optical/ultraviolet light curves. Mon. Not. R. Astron. Soc. 426, L86-L90 (2012).

Olivares E., F., J. Greiner, P. Schady, A. Rau, S. Klose, T. Krühler, P.M.J. Afonso, A.C. Updike, M. Nardini, R. Filgas, A. Nicuesa Guelbenzu, C. Clemens, J. Elliott, D.A. Kann, A. Rossi and V. Sudilovsky: The fast evolution of SN 2010bh associated with XRF 100316D. Astron. Astrophys. 539, A76 (2012).

Ortiz, J.L., B. Sicardy, F. Braga-Ribas, ..., T. Mueller, et al.: Albedo and atmospheric constraints of dwarf planet Makemake from a stellar occultation. Nature 491, 566-569 (2012).

Oteo, I., A. Bongiovanni, A.M. Pérez García, J. Cepa, A. Ederoclite, M. Sánchez-Portal, I. Pintos-Castro, R. Pérez-Martínez, D. Lutz, B. Altieri, P. Andreani, H. Aussel, S. Berta, A. Cimatti, E. Daddi, D. Elbaz, N. Förster Schreiber, R. Genzel, E. Le Floc'h, B. Magnelli, R. Maiolino, A. Poglitsch, P. Popesso, F. Pozzi, L. Riguccini, E. Sturm, L. Tacconi and I. Valtchanov: Physical Properties of Lyα Emitters at z ~ 0.3 from UV-to-FIR Measurements. Ap. J. 751, 139 (2012).

Oteo, I., A. Bongiovanni, A.M. Pérez García, J. Cepa, A. Ederoclite, M. Sánchez-Portal, I. Pintos-Castro, R. Pérez-Martínez, S. Berta, B. Magnelli, P. Popesso, F. Pozzi, A. Poglitsch, D. Lutz, R. Genzel, L. Tacconi, N. Förster Schreiber, E. Sturm, D. Elbaz, H. Aussel, E. Daddi, P. Andreani, A. Cimatti, R. Maiolino, B. Altieri and I. Valtchanov: Herschel-PACS far-infrared detections of Lyman-α emitters at 2.0 ≤ z ≤ 3.5. Astron. Astrophys. 541, A65 (2012).

Paciesas, W.S., C.A. Meegan, A. von Kienlin, P.N. Bhat, E. Bissaldi, M.S. Briggs, J.M. Burgess, V. Chaplin, V. Connaughton, R. Diehl, G.J. Fishman, G. Fitzpatrick, S. Foley, M. Gibby, M. Giles, A. Goldstein, J. Greiner, D. Gruber, S. Guiriec, A.J. van der Horst, R.M. Kippen, C. Kouveliotou, G. Lichti, L. Lin, S. McBreen, R.D. Preece, A. Rau, D. Tierney and C. Wilson-Hodge: The Fermi GBM Gamma-Ray Burst Catalog: The First Two Years. Ap. J. Supp. Ser. 199, 18 (2012).

Padovani, P., P. Giommi and A. Rau: The discovery of high-power high synchrotron peak blazars. Mon. Not. R. Astron. Soc. 422, L48 (2012).

Pancrazi, B., N.A. Webb, W. Becker, I. Cognard, L. Guillemot, A.B. Hill, M. Jackson, R.P. Mignani and N. Rea: X-ray follow-up observations of the two γ-ray pulsars PSR J1459-6053 and PSR J1614-2230. Astron. Astrophys. 544, A108 (2012).

Papovich, C., R. Bassett, J.M. Lotz, A. van der Wel, K.-V. Tran, S.L. Finkelstein, E.F. Bell, C.J. Conselice, A. Dekel, J.S. Dunlop, Y. Guo, S.M. Faber, D. Farrah, H.C. Ferguson, K.D. Finkelstein, B. Häussler, D.D. Kocevski, A.M. Koekemoer, D.C. Koo, E.J. McGrath, R.J. McLure, D.H. McIntosh, I. Momcheva, J.A. Newman, G. Rudnick, B. Weiner, C.N.A. Willmer and S. Wuyts: CANDELS Observations of the Structural Properties of Cluster Galaxies at z = 1.62. Ap. J. 750, 93 (2012).

Pasquini, L., A. Brucalassi, M.T. Ruiz, P. Bonifacio, C. Lovis, R. Saglia, C. Melo, K. Biazzo, S. Randich and L.R. Bedin: Search for giant planets in M 67. I. Overview. Astron. Astrophys. 545, A139 (2012).

Penner, K., M. Dickinson, A. Pope, A. Dey, B. Magnelli, M. Pannella, B. Altieri, H. Aussel, V. Buat, S. Bussmann, V. Charmandaris, D. Coia, E. Daddi, H. Dannerbauer, D. Elbaz, H.S. Hwang, J. Kartaltepe, L. Lin, G. Magdis, G. Morrison, P. Popesso, D. Scott and I. Valtchanov: Evidence for a Wide Range of Ultraviolet Obscuration in z ~ 2 Dusty Galaxies from the GOODS-Herschel Survey. Ap. J. 759, 28 (2012).

Persson, M.V., J.K. Jørgensen and E.F. van Dishoeck: Subarcsecond resolution observations of warm water toward three deeply embedded low-mass protostars. Astron. Astrophys. 541, A39 (2012).

Petkova, M. and U. Maio: Radiative feedback and cosmic molecular gas: numerical method. Mon. Not. R. Astron. Soc. 422, 3067-3080 (2012).

Petrov, O.F., M.I. Myasnikov, L.G. D'yachkov, M.M. Vasiliev, V.E. Fortov, S.F. Savin, A.Y. Kaleri, A.I. Borisenko and G.E. Morfill: Coulomb clusters of dust particles in a cusp magnetic trap under microgravity conditions. Physical Review E 86, 036404 (2012).

Pierini, D., R. Šuhada, R. Fassbender, A. Nastasi, H. Böhringer, M. Salvato, G.W. Pratt, M. Lerchster, P. Rosati, J.S. Santos, A. de Hoon, J. Kohnert, G. Lamer, J.J. Mohr, M. Mühlegger, H. Quintana, A. Schwope, V. Biffi, G. Chon, S. Giodini, J. Koppenhoefer, M. Verdugo, F. Ziparo, P.M.J. Afonso, C. Clemens, J. Greiner, T. Krühler, A.

Küpcü Yoldaş, F. Olivares E., A. Rossi and A. Yoldaş: First simultaneous optical/near-infrared imaging of an X-ray selected, high-redshift cluster of galaxies with GROND. The galaxy population of XMMU J0338.7 + 0030 at z = 1.1. Astron. Astrophys. 540, A45 (2012).

Piqueras Lopez, J., R. Davies, L. Colina and G. Orban de Xivry: Spatially Resolved Kinematics of the Central Regions of M83: Hidden Mass Signatures and the Role of Supernovae. Ap. J. 752, 47, (2012).

Popesso, P., A. Biviano, G. Rodighiero, I. Baronchelli, M. Salvato, A. Saintonge, A. Finoguenov, B. Magnelli, C. Gruppioni, F. Pozzi, D. Lutz, D. Elbaz, B. Altieri, P. Andreani, H. Aussel, S. Berta, P. Capak, A. Cava, A. Cimatti, D. Coia, E. Daddi, H. Dannerbauer, M. Dickinson, K. Dasyra, D. Fadda, N. Förster Schreiber, R. Genzel, H.S. Hwang, J. Kartaltepe, O. Ilbert, E. Le Floch, R. Leiton, G. Magdis, R. Nordon, S. Patel, A. Poglitsch, L. Riguccini, M. Sanchez Portal, L. Shao, L. Tacconi, A. Tomczak, K. Tran and I. Valtchanov: The evolution of the star formation activity per halo mass up to redshift ~1.6 as seen by Herschel. Astron. Astrophys. 537, A58 (2012).

Porro, M., L. Andricek, S. Aschauer, M. Bayer, J. Becker, L. Bombelli, A. Castoldi, G. De Vita, I. Diehl, F. Erdinger, S. Facchinetti, C. Fiorini, P. Fischer, T. Gerlach, H. Graafsma, C. Guazzoni, K. Hansen,, P. Kalavakuru, H. Klaer, A. Kugel, P. Lechner, M. Lemke, G. Lutz, M. Manghisoni, D. Mezza, D. Muentefering, U. Pietsch, E. Quartieri, M. Randall, V. Re, C. Reckleben, C. Sandow, J. Soldat, L. Strueder, J. Szymanski, G. Weidenspointner, C. Wunderer: Development of the DEPFET sensor with signal compression: A large format X-ray imager with mega-frame readout capability for the European XFEL. IEEE Trans. Nucl. Sci. 59, 6329465, 3339-3351 (2012).

Postman, M., D. Coe, N. Benítez, L. Bradley, T. Broadhurst, M. Donahue, H. Ford, O. Graur, G. Graves, S. Jouvel, A. Koekemoer, D. Lemze, E. Medezinski, A. Molino, L. Moustakas, S. Ogaz, A. Riess, S. Rodney, P. Rosati, K. Umetsu, W. Zheng, A. Zitrin, M. Bartelmann, R. Bouwens, N. Czakon, S. Golwala, O. Host, L. Infante, S. Jha, Jimenez-Y. Teja, D. Kelson, O. Lahav, R. Lazkoz, D. Maoz, C. McCully, P. Melchior, M. Meneghetti, J. Merten, J. Moustakas, M. Nonino, B. Patel, E. Regös, J. Sayers, S. Seitz, A. Van der Wel: The Cluster Lensing and Supernova Survey with Hubble: An Overview. Ap. J. Suppl. Ser. 199 (2012).

Pozzi, F., C. Vignali, C. Gruppioni, A. Feltre, J. Fritz, D. Fadda, P. Andreani, S. Berta, A. Cimatti, I. Delvecchio, D. Lutz, B. Magnelli, R. Maiolino, R. Nordon, P. Popesso, G. Rodighiero, D. Rosario, P. Santini and M. Vaccari: The AGN content in luminous infrared galaxies at z~ 2 from a global SED analysis including Herschel data. Mon. Not. R. Astron. Soc. 423, 1909-1920 (2012).

Presotto, V., A. Iovino, M. Scodeggio, O. Cucciati, C. Knobel, M. Bolzonella, P. Oesch, A. Finoguenov, M. Tanaka, K. Kovač, Y. Peng, G. Zamorani, S. Bardelli, L. Pozzetti, P. Kampczyk, C. López-Sanjuan, D. Vergani, E. Zucca, L.A.M. Tasca, C.M. Carollo, T. Contini, J.-P. Kneib, O. Le Fèvre, S. Lilly, V. Mainieri, A. Renzini, A. Bongiorno, K. Caputi, S. dela Torre, L. de Ravel, P. Franzetti, B. Garilli, F. Lamareille, J.-F. Le Borgne, V. Le Brun, C. Maier, M. Mignoli, R. Pellò, E. Perez-Montero, E. Ricciardelli, J.D. Silverman, L. Tresse, L. Barnes, R. Bordoloi, A. Cappi, A. Cimatti, G. Coppa, A.M. Koekemoer, H.J. McCracken, M. Moresco, P. Nair and N. Welikala: A journey from the outskirts to the cores of groups. I. Color- and mass-segregation in 20K-zCOSMOS groups. Astron. Astrophys. 539, A55 (2012).

Prinz, T. and W. Becker: Exploring the supernova remnant G308.4-1.4. Astron. Astrophys. 544, A7 (2012).

Pustylnik, M.Y., A.V. Ivlev, N. Sadeghi, R. Heidemann, S. Mitic, H.M. Thomas and G.E. Morfill: On the heterogeneous character of the heartbeat instability in complex (dusty) plasmas. Phys. Plasmas 19, 103701 (2012).

Pustylnik, M.Y., M.H. Thoma, G.E. Morfill, R. Grimm and C. Hock: Plasma diagnostics for complex plasmas under microgravity and on ground. Journal of Plasma Physics 78, 289-294 (2012).

Pál, A., C. Kiss, T.G. Müller, P. Santos-Sanz, E. Vilenius, N. Szalai, M. Mommert, E. Lellouch, M. Rengel, P. Hartogh, S. Protopapa, J. Stansberry, J.-L. Ortiz, R. Duffard, A. Thirouin, F. Henry and A. Delsanti: "TNOs are Cool": A survey of the trans-Neptunian region. VII. Size and surface characteristics of (90377) Sedna and 2010 EK_{139}. Astron. Astrophys. 541, L6 (2012).

Räth, C., M. Gliozzi, I.E. Papadakis and W. Brinkmann: Revisiting Algorithms for Generating Surrogate Time Series. Phys. Rev. Lett. 109, 144101 (2012).

Rau, A., P. Schady, J. Greiner, M. Salvato, M. Ajello, E. Bottacini, N. Gehrels, P.M.J. Afonso, J. Elliott, R. Filgas, D.A. Kann, S. Klose, T. Krühler, M. Nardini, A. Nicuesa Guelbenzu, F. Olivares E., A. Rossi, V. Sudilovsky, A.C. Updike and D.H. Hartmann: BL Lacertae objects beyond redshift 1.3 - UV-to-NIR photometry and photometric redshift for Fermi/LAT blazars. Astron. Astrophys. 538, A26 (2012).

Reddy, N., M. Dickinson, D. Elbaz, G. Morrison, M. Giavalisco, R. Ivison, C. Papovich, D. Scott, V. Buat, D. Burgarella, V. Charmandaris, E. Daddi, G. Magdis, E. Murphy, B. Altieri, H. Aussel, H. Dannerbauer, K. Dasyra, H.S. Hwang, J. Kartaltepe, R. Leiton, B. Magnelli and P. Popesso: GOODS-Herschel Measurements of the Dust Attenuation of Typical Star-forming Galaxies at High Redshift: Observations of Ultraviolet-selected Galaxies at z ~ 2. Ap. J. 744, 154 (2012).

Reichardt, C.L., L. Shaw, O. Zahn, K.A. Aird, B.A. Benson, L.E. Bleem, J.E. Carlstrom, C.L. Chang, H.M. Cho, T.M. Crawford, A.T. Crites, T. de Haan, M.A. Dobbs, J. Dudley, E.M. George, N.W. Halverson, G.P. Holder, W.L. Holzapfel, S. Hoover, Z. Hou, J.D. Hrubes, M. Joy, R. Keisler, L. Knox, A.T. Lee, E.M. Leitch, M. Lueker, D. Luong-Van, J.J. McMahon, J. Mehl, S.S. Meyer, M. Millea, J.J. Mohr, T.E. Montroy, T. Natoli, S. Padin, T. Plagge, C. Pryke, J.E. Ruhl, K.K. Schaffer, E. Shirokoff, H.G. Spieler, Z. Staniszewski, A.A. Stark, K. Story, A. van Engelen, K. Vanderlinde, J.D. Vieira and R. Williamson: A Measurement of Secondary Cosmic Microwave Background Anisotropies with Two Years of South Pole Telescope Observations. Ap. J. 755, 70 (2012).

Reid, B.A., L. Samushia, M. White, W.J. Percival, M. Manera, N. Padmanabhan, A.J. Ross, A.G. Sánchez, S. Bailey, D. Bizyaev, A.S. Bolton, H. Brewington, J. Brinkmann, J.R. Brownstein, A.J. Cuesta, D.J. Eisenstein, J.E. Gunn, K. Honscheid, E. Malanushenko, V. Malanushenko, C. Maraston, C.K. McBride, D. Muna, R.C. Nichol, D. Oravetz, K. Pan, R. de Putter, N.A. Roe, N.P. Ross, D.J. Schlegel, D.P. Schneider, H.-J. Seo, A. Shelden, E.S. Sheldon, A. Simmons, R.A. Skibba, S. Snedden, M.E.C. Swanson, D. Thomas, J. Tinker, R. Tojeiro, L. Verde, D.A. Wake, B.A. Weaver, D.H. Weinberg, I. Zehavi and G.-B. Zhao: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: measurements of the growth of structure and expansion rate at z = 0.57 from anisotropic clustering. Mon. Not. R. Astron. Soc. 426, 2719-2737 (2012).

Revnivtsev, M.G., R.A. Burenin, A.Y. Tkachenko, I.M. Khamitov, T. Ak, A. Merloni, M.N. Pavlinsky and R.A. Sunyaev: On the change of the inner boundary of an optically thick accretion disk around white dwarfs using the dwarf nova SS Cyg as an example. Astronomy Letters 38, 238-248 (2012).

Röcker, T.B., A.V. Ivlev, R. Kompaneets and G.E. Morfill: Mode coupling in two-dimensional plasma crystals: Role of the wake model. Phys. Plasmas 19, 033708 (2012).

Röcker, T.B., S.K. Zhdanov, A.V. Ivlev, M. Lampe, G. Joyce and G.E. Morfill: Effective dipole moment for the mode coupling instability: Mapping of self-consistent wake models. Phys. Plasmas 19, 073708 (2012).

Romani, R.W., A.V. Filippenko, J.M. Silverman, S.B. Cenko, J. Greiner, A. Rau, J. Elliott and H.J. Pletsch: PSR J1311-3430: A Heavyweight Neutron Star with a Flyweight Helium Companion. Ap. J. Lett. 760, L36 (2012).

Rosario, D.J., P. Santini, D. Lutz, L. Shao, R. Maiolino, D.M. Alexander, B. Altieri, P. Andreani, H. Aussel, F.E. Bauer, S. Berta, A. Bongiovanni, W.N. Brandt, M. Brusa, J. Cepa, A. Cimatti, T.J. Cox, E. Daddi, D. Elbaz, A. Fontana, N.M. Förster Schreiber, R. Genzel, A. Grazian, E. Le Floch, B. Magnelli, V. Mainieri, H. Netzer, R. Nordon, I. Pérez Garcia, A. Poglitsch, P. Popesso, F. Pozzi, L. Riguccini, G. Rodighiero, M. Salvato, M. Sanchez-Portal, E. Sturm, L.J. Tacconi, I. Valtchanov and S. Wuyts: The mean star formation rate of X-ray selected active galaxies and its evolution from z ~ 2.5: results from PEP-Herschel. Astron. Astrophys. 545, A45 (2012).

Ross, A.J., W.J. Percival, A.G. Sánchez, L. Samushia, S. Ho, E. Kazin, M. Manera, B. Reid, M. White, R. Tojeiro, C.K. McBride, X. Xu, D.A. Wake, M.A. Strauss, F. Montesano, M.E.C. Swanson, S. Bailey, A.S. Bolton, A.M. Dorta, D.J. Eisenstein, H. Guo, J.-C. Hamilton, R.C. Nichol, N. Padmanabhan, F. Prada, D.J. Schlegel, M.V. Magana, I. Zehavi, M. Blanton, D. Bizyaev, H. Brewington, A.J. Cuesta, E. Malanushenko, V. Malanushenko, D. Oravetz, J. Parejko, K. Pan, D.P. Schneider, A. Shelden, A. Simmons, S. Snedden and G.-b. Zhao: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: analysis of potential systematics. Mon. Not. R. Astron. Soc. 424, 564-590 (2012).

Rossi, A., S. Klose, P. Ferrero, J. Greiner, L.A. Arnold, E. Gonsalves, D.H. Hartmann, A.C. Updike, D.A. Kann, T. Krühler, E. Palazzi, S. Savaglio, S. Schulze, P.M.J. Afonso, L. Amati, A.J. Castro-Tirado, C. Clemens, R. Filgas, J. Gorosabel, L.K. Hunt, A. Küpcü Yoldaş, N. Masetti, M. Nardini, A. Nicuesa Guelbenzu, F.E. Olivares, E. Pian, A. Rau, P. Schady, S. Schmidl, A. Yoldaş and A. de Ugarte Postigo: A deep search for the host galaxies of gamma-ray bursts with no detected optical afterglow. Astron. Astrophys. 545, A77 (2012).

Rossmanith, G., H. Modest, C. Räth, A.J. Banday, K.M. Górski and G. Morfill: Probing non-Gaussianities in the cosmic microwave background on an incomplete sky using surrogates. Physical Review D 86, 083005 (2012).

Rovilos, E., A. Comastri, R. Gilli, I. Georgantopoulos, P. Ranalli, C. Vignali, E. Lusso, N. Cappelluti, G. Zamorani, D. Elbaz, M. Dickinson, H.S. Hwang, V. Charmandaris, R.J. Ivison, A. Merloni, E. Daddi, F.J. Carrera, W.N. Brandt, J.R. Mullaney, D. Scott, D.M. Alexander, A. Del Moro, G. Morrison, E.J. Murphy, B. Altieri, H. Aussel, H. Dannerbauer, J. Kartaltepe, R. Leiton, G. Magdis, B. Magnelli, P. Popesso and I. Valtchanov: GOODS-Herschel: ultra-deep XMM-Newton observations reveal AGN/star-formation connection. Astron. Astrophys. 546, A58 (2012).

Rudek, B., S.-K. Son, L. Foucar, S.W. Epp, B. Erk, R. Hartmann, M. Adolph, R. Andritschke, A. Aquila, N. Berrah, C. Bostedt, J. Bozek, N. Coppola, F. Filsinger, H. Gorke, T. Gorkhover, H. Graafsma, L. Gumprecht, A. Hartmann, G. Hauser, S. Herrmann, H. Hirsemann, P. Holl, A. Hömke, L. Journel, C. Kaiser, N. Kimmel, F. Krasniqi, K.-U. Kühnel, M. Matysek, M. Messerschmidt, D. Miesner, T. Möller, R. Moshammer, K. Nagaya, B. Nilsson, G. Potdevin, D. Pietschner, C. Reich, D. Rupp, G. Schaller, I. Schlichting, C. Schmidt, F. Schopper, S. Schorb, C.-D. Schröter, J. Schulz, M. Simon, H. Soltau, L. Strüder, K. Ueda, G. Weidenspointner, R. Santra, J. Ullrich, A. Rudenko and D. Rolles: Ultra-efficient ionization of heavy atoms by intense X-ray free-electron laser pulses. Nature Photonics 6, 858-865 (2012).

Rupp, D., M. Adolph, T. Gorkhover, S. Schorb, D. Wolter, R. Hartmann, N. Kimmel, C. Reich, T. Feigl, A.R.B. de Castro, R. Treusch, L. Strüder, T. Möller and C. Bostedt: Identification of twinned gas phase clusters by single-shot scattering with intense soft x-ray pulses. New J. Phys. 14, 055016 (2012).

Saglia, R.P., J.L. Tonry, R. Bender, N. Greisel, S. Seitz, R. Senger, J. Snigula, S. Phleps, D. Wilman, C.A.L. Bailer-Jones, R.J. Klement, H.-W. Rix, K. Smith, P.J. Green, W.S. Burgett, K.C. Chambers, J.N. Heasley, N. Kaiser, E.A. Magnier, J.S. Morgan, P.A. Price, C.W. Stubbs and R.J. Wainscoat: The Photometric Classification Server for Pan-STARRS1. Ap. J. 746, 128 (2012).

Saha, K., I. Martinez-Valpuesta and O. Gerhard: Spin-up of low-mass classical bulges in barred galaxies. Mon. Not. R. Astron. Soc. 421, 333-345 (2012).

Saintonge, A., L.J. Tacconi, S. Fabello, J. Wang, B. Catinella, R. Genzel, J. Graciá-Carpio, C. Kramer, S. Moran, T.M. Heckman, D. Schiminovich, K. Schuster and S. Wuyts: The Impact of Interactions, Bars, Bulges, and Active Galactic Nuclei on Star Formation Efficiency in Local Mas-

sive Galaxies. Ap. J. 758, 73 (2012).

Sakiyama, Y., D.B. Graves, H.-W. Chang, T. Shimizu and G.E. Morfill: Plasma chemistry model of surface microdischarge in humid air and dynamics of reactive neutral species. Journal of Physics D Applied Physics 45, 5201P (2012).

Sala, G., F. Haberl, J. José, A. Parikh, R. Longland, L.C. Pardo and M. Andersen: Constraints on the Mass and Radius of the Accreting Neutron Star in the Rapid Burster. Ap. J. 752, 158 (2012).

Sales, L.V., J.F. Navarro, T. Theuns, J. Schaye, S.D.M. White, C.S. Frenk, R.A. Crain and C. Dalla Vecchia: The origin of discs and spheroids in simulated galaxies. Mon. Not. R. Astron. Soc. 423, 1544-1555 (2012).

Sanders, N.E., A.M. Soderberg, S. Valenti, R.J. Foley, R. Chornock, L. Chomiuk, E. Berger, S. Smartt, K. Hurley, S.D. Barthelmy, E.M. Levesque, G. Narayan, M.T. Botticella, M.S. Briggs, V. Connaughton, Y. Terada, N. Gehrels, S. Golenetskii, E. Mazets, T. Cline, A. von Kienlin, W. Boynton, K.C. Chambers, T. Grav, J.N. Heasley, K.W. Hodapp, R. Jedicke, N. Kaiser, R.P. Kirshner, R.-P. Kudritzki, G.A. Luppino, R.H. Lupton, E.A. Magnier, D.G. Monet, J.S. Morgan, P.M. Onaka, P.A. Price, C.W. Stubbs, J.L. Tonry, R.J. Wainscoat and M.F. Waterson: SN 2010ay is a Luminous and Broad-lined Type Ic Supernova within a Low-metallicity Host Galaxy. Ap. J. 756, 184 (2012).

Sani, E., R.I. Davies, A. Sternberg, J. Graciá-Carpio, E.K.S. Hicks, M. Krips, L.J. Tacconi, R. Genzel, B. Vollmer, E. Schinnerer, S. García-Burillo, A. Usero and G. Orban de Xivry: Physical properties of dense molecular gas in centres of Seyfert galaxies. Mon. Not. R. Astron. Soc. 424, 1963-1976 (2012).

Santangelo, G., B. Nisini, T. Giannini, S. Antoniucci, M. Vasta, C. Codella, A. Lorenzani, M. Tafalla, R. Liseau, E.F. van Dishoeck and L.E. Kristensen: The Herschel HIFI water line survey in the low-mass proto-stellar outflow L1448. Astron. Astrophys. 538, A45 (2012).

Santini, P., D.J. Rosario, L. Shao, D. Lutz, R. Maiolino, D.M. Alexander, B. Altieri, P. Andreani, H. Aussel, F.E. Bauer, S. Berta, A. Bongiovanni, W.N. Brandt, M. Brusa, J. Cepa, A. Cimatti, E. Daddi, D. Elbaz, A. Fontana, N.M. Förster Schreiber, R. Genzel, A. Grazian, E. Le Floc'h, B. Magnelli, V. Mainieri, R. Nordon, A.M. Pérez Garcia, A. Poglitsch, P. Popesso, F. Pozzi, L. Riguccini, G. Rodighiero, M. Salvato, M. Sanchez-Portal, E. Sturm, L.J. Tacconi, I. Valtchanov and S. Wuyts: Enhanced star formation rates in AGN hosts with respect to inactive galaxies from PEP-Herschel observations. Astron. Astrophys. 540, A109 (2012).

Santos-Sanz, P., E. Lellouch, S. Fornasier, C. Kiss, A. Pal, T.G. Müller, E. Vilenius, J. Stansberry, M. Mommert, A. Delsanti, M. Mueller, N. Peixinho, F. Henry, J.L. Ortiz, A. Thirouin, S. Protopapa, R. Duffard, N. Szalai, T. Lim, C. Ejeta, P. Hartogh, A.W. Harris and M. Rengel: "TNOs are Cool": A survey of the trans-Neptunian region. IV. Size/albedo characterization of 15 scattered disk and detached objects observed with Herschel-PACS. Astron. Astrophys. 541, A92 (2012).

Sartore, N., A. Tiengo, S. Mereghetti, A. De Luca, R. Turolla and F. Haberl: Spectral monitoring of RX J1856.5-3754 with XMM-Newton. Analysis of EPIC-pn data. Astron. Astrophys. 541, A66 (2012).

Sasaki, M., W. Pietsch, F. Haberl, D. Hatzidimitriou, H. Stiele, B. Williams, A. Kong and U. Kolb: Supernova remnants and candidates detected in the XMM-Newton M 31 large survey. Astron. Astrophys. 544, A144 (2012).

Savaglio, S., A. Rau, J. Greiner, T. Krühler, S. McBreen, D.H. Hartmann, A.C. Updike, R. Filgas, S. Klose, P. Afonso, C. Clemens, A. Küpcü Yoldaş, F. Olivares E., V. Sudilovsky and G. Szokoly: Supersolar metal abundances in two galaxies at z ~ 3.57 revealed by the GRB 090323 afterglow spectrum. Mon. Not. R. Astron. Soc. 420, 627-636 (2012).

Savaglio, S.: Gamma-ray burst host galaxies at low and high redshift. Astron. Nachr. 333, 480 (2012).

Sbarrato, T., G. Ghisellini, M. Nardini, G. Tagliaferri, L. Foschini, G. Ghirlanda, F. Tavecchio, J. Greiner, A. Rau and N. Gehrels: SDSS J102623.61+254259.5: the second most distant blazar at z = 5.3. Mon. Not. R. Astron. Soc. 426, L91-L95 (2012).

Scannapieco, C., M. Wadepuhl, O.H. Parry, J.F. Navarro, A. Jenkins, V. Springel, R. Teyssier, E. Carlson, H.M.P. Couchman, R.A. Crain, C. Dalla Vecchia, C.S. Frenk, C. Kobayashi, P. Monaco, G. Murante, T. Okamoto, T. Quinn, J. Schaye, G.S. Stinson, T. Theuns, J. Wadsley, S.D.M. White and R. Woods: The Aquila comparison project: the effects of feedback and numerical methods on simulations of galaxy formation. Mon. Not. R. Astron. Soc. 423, 1726-1749 (2012).

Schady, P., T. Dwelly, M.J. Page, T. Krühler, J. Greiner, S.R. Oates, M. de Pasquale, M. Nardini, P.W.A. Roming, A. Rossi and M. Still: The dust extinction curves of gamma-ray burst host galaxies. Astron. Astrophys. 537, A15 (2012).

Schartmann, M., A. Burkert, C. Alig, S. Gillessen, R. Genzel, F. Eisenhauer and T.K. Fritz: Simulations of the Origin and Fate of the Galactic Center Cloud G2. Ap. J. 755, 155 (2012).

Schlagenhaufer, H.A., S. Phleps and A.G. Sánchez: A model of the anisotropic correlation function $\xi(r_p, \pi)$ in redshift space including redshift errors. Mon. Not. R. Astron. Soc. 425, 2099-2115 (2012).

Schmidt, F., A. Leauthaud, R. Massey, J. Rhodes, M.R. George, A.M. Koekemoer, A. Finoguenov and M. Tanaka: A Detection of Weak-lensing Magnification Using Galaxy Sizes and Magnitudes. Ap. J. Lett. 744, L22 (2012).

Semler, D.R., R. Šuhada, K.A. Aird, ..., J.J. Mohr, et al.: High-redshift Cool-core Galaxy Clusters Detected via the Sunyaev-Zel'dovich Effect in the South Pole Telescope Survey. Ap. J. 761, 183 (2012).

Serra, P., T. Oosterloo, R. Morganti, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, M. Cappellari, A.F. Crocker, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, T. Naab, M. Sarzi, N. Scott, S.C. Trager, A.-M. Weijmans and L.M. Young: The

ATLAS^{3D} project - XIII. Mass and morphology of H I in early-type galaxies as a function of environment. Mon. Not. R. Astron. Soc. 422, 1835-1862 (2012).

Setiawan, J., V. Roccatagliata, D. Fedele, T. Henning, A. Pasquali, M.V. Rodríguez-Ledesma, E. Caffau, U. Seemann and R.J. Klement: Planetary companions around the metal-poor star HIP 11952. Astron. Astrophys. 540, A141 (2012).

Seymour, N., B. Altieri, C. De Breuck, P. Barthel, D. Coia, L. Conversi, H. Dannerbauer, A. Dey, M. Dickinson, G. Drouart, A. Galametz, T.R. Greve, M. Haas, N. Hatch, E. Ibar, R. Ivison, M. Jarvis, A. Kovács, J. Kurk, M. Lehnert, G. Miley, N. Nesvadba, J.I. Rawlings, A. Rettura, H. Röttgering, B. Rocca-Volmerange, M. Sánchez-Portal, J.S. Santos, D. Stern, J. Stevens, I. Valtchanov, J. Vernet and D. Wylezalek: Rapid Coeval Black Hole and Host Galaxy Growth in MRC 1138-262: The Hungry Spider. Ap. J. 755, 146 (2012).

Shields, G.A., D.J. Rosario, V. Junkkarinen, S.C. Chapman, E.W. Bonning and T. Chiba: LBQS 0103-2753: A Binary Quasar in a Major Merger. Ap. J. 744, 151, (2012).

Shimizu, S., T. Shimizu, H.M. Thomas, G. Matern, R.W. Stark, M. Balden, S. Lindig, Y. Watanabe, W. Jacob, N. Sato and G.E. Morfill: Synthesis of diamond fine particles on levitated seed particles in a rf CH4/H2 plasma chamber equipped with a hot filament. J. Appl. Phys. 112, 073303 (2012).

Shimizu, T., Y. Sakiyama, D.B. Graves, J.L. Zimmermann and G.E. Morfill: The dynamics of ozone generation and mode transition in air surface micro-discharge plasma at atmospheric pressure. New Journal of Physics 14 (2012).

Silk, J., V. Antonuccio-Delogu, Y. Dubois, V. Gaibler, M.R. Haas, S. Khochfar and M. Krause: Jet interactions with a giant molecular cloud in the Galactic centre and ejection of hypervelocity stars. Astron. Astrophys. 545, L11 (2012).

Zdziarski, A.A., C. Maitra, A. Frankowski, G.K. Skinner and R. Misra: Energy-dependent orbital modulation of X-rays and constraints on emission of the jet in Cyg X-3. MNRAS 426, 1031-1042 (2012).

Smith, K.L., G.A. Shields, S. Salviander, A.C. Stevens and D.J. Rosario: Double-peaked Narrow-line Active Galactic Nuclei. II. The Case of Equal Peaks. Ap. J. 752, 63, (2012).

Smolčić, V., F. Navarrete, M. Aravena, O. Ilbert, M.S. Yun, K. Sheth, M. Salvato, H.J. McCracken, C. Diener, I. Aretxaga, D.A. Riechers, A. Finoguenov, F. Bertoldi, P. Capak, D. Hughes, A. Karim, E. Schinnerer, N.Z. Scoville and G. Wilson: Quest for COSMOS Submillimeter Galaxy Counterparts using CARMA and VLA: Identifying Three High-redshift Starburst Galaxies. Ap. J. Supp. Ser. 200, 10 (2012).

Smolčić, V., M. Aravena, F. Navarrete, E. Schinnerer, D.A. Riechers, F. Bertoldi, C. Feruglio, A. Finoguenov, M. Salvato, M. Sargent, H.J. McCracken, M. Albrecht, A. Karim, P. Capak, C.L. Carilli, N. Cappelluti, M. Elvis, O. Ilbert, J. Kartaltepe, S. Lilly, D. Sanders, K. Sheth, N.Z. Scoville and Y. Taniguchi: Millimeter imaging of submillimeter galaxies in the COSMOS field: redshift distribution. Astron. Astrophys. 548, A4 (2012).

Soderberg, A.M., R. Margutti, B.A. Zauderer, M. Krauss, B. Katz, L. Chomiuk, J.A. Dittmann, E. Nakar, T. Sakamoto, N. Kawai, K. Hurley, S. Barthelmy, T. Toizumi, M. Morii, R.A. Chevalier, M. Gurwell, G. Petitpas, M. Rupen, K.D. Alexander, E.M. Levesque, C. Fransson, A. Brunthaler, M.F. Bietenholz, N. Chugai, J. Grindlay, A. Copete, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, S. Golenetskii, E. Mazets and T. Cline: Panchromatic Observations of SN 2011dh Point to a Compact Progenitor Star. Ap. J. 752, 78 (2012).

Song, J., A. Zenteno, B. Stalder, S. Desai, L.E. Bleem, K.A. Aird, R. Armstrong, M.L.N. Ashby, M. Bayliss, G. Bazin, B.A. Benson, E. Bertin, M. Brodwin, J.E. Carlstrom, C.L. Chang, H.M. Cho, A. Clocchiatti, T.M. Crawford, A.T. Crites, T. de Haan, M.A. Dobbs, J.P. Dudley, R.J. Foley, E.M. George, D. Gettings, M.D. Gladders, A.H. Gonzalez, N.W. Halverson, N.L. Harrington, F.W. High, G.P. Holder, W.L. Holzapfel, S. Hoover, J.D. Hrubes, M. Joy, R. Keisler, L. Knox, A.T. Lee, E.M. Leitch, J. Liu, M. Lueker, D. Luong-Van, D.P. Marrone, M. McDonald, J.J. McMahon, J. Mehl, S.S. Meyer, L. Mocanu, J.J. Mohr, T.E. Montroy, T. Natoli, D. Nurgaliev, S. Padin, T. Plagge, C. Pryke, C.L. Reichardt, A. Rest, J. Ruel, J.E. Ruhl, B.R. Saliwanchik, A. Saro, J.T. Sayre, K.K. Schaffer, L. Shaw, E. Shirokoff, R. Šuhada, H.G. Spieler, S.A. Stanford, Z. Staniszewski, A.A. Stark, K. Story, C.W. Stubbs, A. van Engelen, K. Vanderlinde, J.D. Vieira, R. Williamson and O. Zahn: Redshifts, Sample Purity, and BCG Positions for the Galaxy Cluster Catalog from the First 720 Square Degrees of the South Pole Telescope Survey. Ap. J. 761, 22 (2012).

Song, J., J.J. Mohr, W.A. Barkhouse, M.S. Warren, K. Dolag and C. Rude: A Parameterized Galaxy Catalog Simulator for Testing Cluster Finding, Mass Estimation, and Photometric Redshift Estimation in Optical and Near-infrared Surveys. Ap. J. 747, 58 (2012).

Spinelli, P.F., S. Seitz, M. Lerchster, F. Brimioulle and A. Finoguenov: Weak-lensing mass estimates of galaxy groups and the line-of-sight contamination. Mon. Not. R. Astron. Soc. 420, 1384-1404 (2012).

Starikova, S., S. Berta, A. Franceschini, L. Marchetti, G. Rodighiero, M. Vaccari and A. Vikhlinin: Clustering of Star-forming Galaxies Detected in Mid-infrared with the Spitzer Wide-area Survey. Ap. J. 751, 126 (2012).

Stelzer, B., T. Preibisch, F. Alexander, P. Mucciarelli, E. Flaccomio, G. Micela and S. Sciortino: X-ray view of IC 348 in the light of an updated cluster census. Astron. Astrophys. 537, A135 (2012).

Sturm, R., F. Haberl, A. Rau, E.S. Bartlett, X.-L. Zhang, P. Schady, W. Pietsch, J. Greiner, M.J. Coe and A. Udalski: Discovery of the neutron star spin and a possible orbital period from the Be/X-ray binary IGR J05414-6858 in the LMC. Astron. Astrophys. 542, A109 (2012).

Sturm, R., F. Haberl, W. Pietsch, M.J. Coe, S. Mereghetti, N. La Palombara, R.A. Owen and A. Udalski: A new supersoft X-ray source in the Small Magellanic Cloud: Discovery of the first Be/white dwarf system in the SMC?. Astron. Astrophys. 537, A76 (2012).

Sánchez, A.G., C.G. Scóccola, A.J. Ross, W. Percival, M. Manera, F. Montesano, X. Mazzalay, A.J. Cuesta, D.J. Eisenstein, E. Kazin, C.K. McBride, K. Mehta, A.D. Montero-Dorta, N. Padmanabhan, F. Prada, J.A. Rubino-Martín, R. Tojeiro, X. Xu, M.V. Magana, E. Aubourg, N.A. Bahcall, S. Bailey, D. Bizyaev, A.S. Bolton, H. Brewington, J. Brinkmann, J.R. Brownstein, J.R. Gott, J.C. Hamilton, S. Ho, K. Honscheid, A. Labatie, E. Malanushenko, V. Malanushenko, C. Maraston, D. Muna, R.C. Nichol, D. Oravetz, K. Pan, N.P. Ross, N.A. Roe, B.A. Reid, D.J. Schlegel, A. Shelden, D.P. Schneider, A. Simmons, R. Skibba, S. Snedden, D. Thomas, J. Tinker, D.A. Wake, B.A. Weaver, D.H. Weinberg, M. White, I. Zehavi and G. Zhao: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological implications of the large-scale two-point correlation function. Mon. Not. R. Astron. Soc. 425, 415-437 (2012).

Šuhada, R., J. Song, H. Böhringer, J.J. Mohr, G. Chon, A. Finoguenov, R. Fassbender, S. Desai, R. Armstrong, A. Zenteno, W.A. Barkhouse, E. Bertin, E.J. Buckley-Geer, S.M. Hansen, F.W. High, H. Lin, M. Mühlegger, C.C. Ngeow, D. Pierini, G.W. Pratt, M. Verdugo and D.L. Tucker: The XMM-BCS galaxy cluster survey. I. The X-ray selected cluster catalog from the initial 6 deg^2. Astron. Astrophys. 537, A39 (2012).

Talia, M., M. Mignoli, A. Cimatti, J. Kurk, S. Berta, M. Bolzonella, P. Cassata, E. Daddi, M. Dickinson, A. Franceschini, C. Halliday, L. Pozzetti, A. Renzini, G. Rodighiero, P. Rosati and G. Zamorani: GMASS ultradeep spectroscopy of galaxies at z ~ 2. VI. Star formation, extinction, and gas outflows from UV spectra. Astron. Astrophys. 539, A61 (2012).

Tanaka, M., A. Finoguenov, S.J. Lilly, M. Bolzonella, C.M. Carollo, T. Contini, A. Iovino, J.-P. Kneib, F. Lamareille, O. Le Fevre, V. Mainieri, V. Presotto, A. Renzini, M. Scodeggio, J.D. Silverman, G. Zamorani, S. Bardelli, A. Bongiorno, K. Caputi, O. Cucciati, S. dela Torre, L. de Ravel, P. Franzetti, B. Garilli, P. Kampczyk, C. Knobel, K. Kovač, J.-F. Le Borgne, V. Le Brun, C. López-Sanjuan, C. Maier, M. Mignoli, R. Pello, Y. Peng, E. Perez-Montero, L. Tasca, L. Tresse, D. Vergani, E. Zucca, L. Barnes, R. Bordoloi, A. Cappi, A. Cimatti, G. Coppa, A.M. Koekemoer, H.J. McCracken, M. Moresco, P. Nair, P. Oesch, L. Pozzetti and N. Welikala: X-Ray Groups of Galaxies at 0.5 < z < 1 in zCOSMOS: Increased AGN Activities in High Redshift Groups. Publ. Astron. Soc. Jpn. 64, 22 (2012).

Tanvir, N.R., A.J. Levan, A.S. Fruchter, J.P.U. Fynbo, J. Hjorth, K. Wiersema, M.N. Bremer, J. Rhoads, P. Jakobsson, P.T. O'Brien, E.R. Stanway, D. Bersier, P. Natarajan, J. Greiner, D. Watson, A.J. Castro-Tirado, R.A.M.J. Wijers, R.L.C. Starling, K. Misra, J.F. Graham and C. Kouveliotou: Star Formation in the Early Universe: Beyond the Tip of the Iceberg. Ap. J. 754, 46 (2012).

Taylor, J.E., R.J. Massey, A. Leauthaud, M.R. George, J. Rhodes, T.D. Kitching, P. Capak, R. Ellis, A. Finoguenov, O. Ilbert, E. Jullo, J.-P. Kneib, A.M. Koekemoer, N. Scoville and M. Tanaka: Measuring the Geometry of the Universe from Weak Gravitational Lensing behind Galaxy Groups in the HST COSMOS Survey. Ap. J. 749, 127 (2012).

Tepper-García, T., P. Richter, J. Schaye, C.M. Booth, C. Dalla Vecchia and T. Theuns: Absorption signatures of warm-hot gas at low redshift: broad H I Lyα absorbers. Mon. Not. R. Astron. Soc. 425, 1640-1663 (2012).

Thomas, H.-C., K. Beuermann, K. Reinsch, A.D. Schwope and V. Burwitz: The high-field polar RX J1007.5-2017. Astron. Astrophys. 546, A104 (2012).

Tinker, J.L., M.R. George, A. Leauthaud, K. Bundy, A. Finoguenov, R. Massey, J. Rhodes and R.H. Wechsler: The Correlated Formation Histories of Massive Galaxies and Their Dark Matter Halos. Ap. J. Lett. 755, L5 (2012).

Tojeiro, R., W.J. Percival, J. Brinkmann, J.R. Brownstein, D.J. Eisenstein, M. Manera, C. Maraston, C.K. McBride, D. Muna, B. Reid, A.J. Ross, N.P. Ross, L. Samushia, N. Padmanabhan, D.P. Schneider, R. Skibba, A.G. Sánchez, M.E.C. Swanson, D. Thomas, J.L. Tinker, L. Verde, D.A. Wake, B.A. Weaver and G.-B. Zhao: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: measuring structure growth using passive galaxies. Mon. Not. R. Astron. Soc. 424, 2339-2344 (2012).

Tommasin, S., H. Netzer, A. Sternberg, R. Nordon, D. Lutz, A. Bongiorno, S. Berta, B. Magnelli, E. Le Floc'h, L. Riguccini and F. Pozzi: Star Formation in LINER Host Galaxies at z ~ 0.3. Ap. J. 753, 155 (2012).

Tsytovich, V.N. and G.E. Morfill: General features and master equations for structurization in complex dusty plasmas. Sov. Journ. Exp. and Theo. Phys. 114, 183-193 (2012).

Umetsu, K., E. Medezinski, M. Nonino, J. Merten, A. Zitrin, A. Molino, C. Grillo, M. Carrasco, M. Donahue, A. Mahdavi, D. Coe, M. Postman, A. Koekemoer, N. Czakon, J. Sayers, T. Mroczkowski, S. Golwala, P.M. Koch, K.-Y. Lin, S.M. Molnar, P. Rosati, I. Balestra, A. Mercurio, M. Scodeggio, A. Biviano, T. Anguita, L. Infante, G. Seidel, I. Sendra, S. Jouvel, O. Host, D. Lemze, T. Broadhurst, M. Meneghetti, L. Moustakas, M. Bartelmann, N. Benítez, R. Bouwens, L. Bradley, H. Ford, Y. Jiménez-Teja, D. Kelson, O. Lahav, P. Melchior, J. Moustakas, S. Ogaz, S. Seitz and W. Zheng: CLASH: Mass Distribution in and around MACS J1206.2-0847 from a Full Cluster Lensing Analysis. Ap. J. 755, 56 (2012).

Valageas, P. and N. Clerc: Redshift-space correlation functions in large galaxy cluster surveys. Astron. Astrophys. 547, A100, (2012).

Vasta, M., C. Codella, A. Lorenzani, G. Santangelo, B. Nisini, T. Giannini, M. Tafalla, R. Liseau, E.F. van Dishoeck and L. Kristensen: Water emission from the chemically rich outflow L1157. Astron. Astrophys. 537, A98 (2012).

Verdugo, M., M. Lerchster, H. Böhringer, H. Hildebrandt, B.L. Ziegler, T. Erben, A. Finoguenov and G. Chon: The Cosmic Web and galaxy evolution around the most luminous X-ray cluster: RX J1347.5-1145. Mon. Not. R. Astron. Soc. 421, 1949-1968 (2012).

Vilenius, E., C. Kiss, M. Mommert, T. Müller, P. Santos-Sanz, A. Pal, J. Stansberry, M. Mueller, N. Peixinho, S. Fornasier, E. Lellouch, A. Delsanti, A. Thirouin, J.L. Ortiz, R. Duffard, D. Perna, N. Szalai, S. Protopapa, F. Henry, D. Hestroffer, M. Rengel, E. Dotto and P. Hartogh: "TNOs

are Cool": A survey of the trans-Neptunian region. VI. Herschel/PACS observations and thermal modeling of 19 classical Kuiper belt objects. Astron. Astrophys. 541, A94 (2012).

Visser, R., L.E. Kristensen, S. Bruderer, E.F. van Dishoeck, G.J. Herczeg, C. Brinch, S.D. Doty, D. Harsono and M.G. Wolfire: Modelling Herschel observations of hot molecular gas emission from embedded low-mass protostars. Astron. Astrophys. 537, A55 (2012).

van Engelen, A., R. Keisler, O. Zahn, K.A. Aird, B.A. Benson, L.E. Bleem, J.E. Carlstrom, C.L. Chang, H.M. Cho, T.M. Crawford, A.T. Crites, T. de Haan, M.A. Dobbs, J. Dudley, E.M. George, N.W. Halverson, G.P. Holder, W.L. Holzapfel, S. Hoover, Z. Hou, J.D. Hrubes, M. Joy, L. Knox, A.T. Lee, E.M. Leitch, M. Lueker, D. Luong-Van, J.J. McMahon, J. Mehl, S.S. Meyer, M. Millea, J.J. Mohr, T.E. Montroy, T. Natoli, S. Padin, T. Plagge, C. Pryke, C.L. Reichardt, J.E. Ruhl, J.T. Sayre, K.K. Schaffer, L. Shaw, E. Shirokoff, H.G. Spieler, Z. Staniszewski, A.A. Stark, K. Story, K. Vanderlinde, J.D. Vieira and R. Williamson: A Measurement of Gravitational Lensing of the Microwave Background Using South Pole Telescope Data. Ap. J. 756, 142 (2012).

van der Horst, A.J., C. Kouveliotou, N.M. Gorgone, Y. Kaneko, M.G. Baring, S. Guiriec, E. Göğüş, J. Granot, A.L. Watts, L. Lin, P.N. Bhat, E. Bissaldi, V.L. Chaplin, M.H. Finger, N. Gehrels, M.H. Gibby, M.M. Giles, A. Goldstein, D. Gruber, A.K. Harding, L. Kaper, A. von Kienlin, M. van der Klis, S. McBreen, J. Mcenery, C.A. Meegan, W.S. Paciesas, A. Pe'er, R.D. Preece, E. Ramirez-Ruiz, A. Rau, S. Wachter, C. Wilson-Hodge, P.M. Woods and R.A.M.J. Wijers: SGR J1550-5418 Bursts Detected with the Fermi Gamma-Ray Burst Monitor during its Most Prolific Activity. Ap. J. 749, 122 (2012).

von Kienlin, A., D. Gruber, C. Kouveliotou, J. Granot, M.G. Baring, E. Gögüş, D. Huppenkothen, Y. Kaneko, L. Lin, A.L. Watts, N.P. Bhat, S. Guiriec, A.J. van der Horst, E. Bissaldi, J. Greiner, C.A. Meegan, W.S. Paciesas, R.D. Preece and A. Rau: Detection of Spectral Evolution in the Bursts Emitted during the 2008-2009 Active Episode of SGR J1550-5418. Ap. J. 755, 150 (2012).

Voss, R., P. Martin, R. Diehl, J.S. Vink, D.H. Hartmann and T. Preibisch: Energetic feedback and ^{26}Al from massive stars and their supernovae in the Carina region. Astron. Astrophys. 539, A66 (2012).

Wakelam, V., E. Herbst, J.-C. Loison, I.W.M. Smith, V. Chandrasekaran, B. Pavone, N.G. Adams, M.-C. Bacchus-Montabonel, A. Bergeat, K. Béroff, V.M. Bierbaum, M. Chabot, A. Dalgarno, E.F. van Dishoeck, A. Faure, W.D. Geppert, D. Gerlich, D. Galli, E. Hébrard, F. Hersant, K.M. Hickson, P. Honvault, S.J. Klippenstein, S. Le Picard, G. Nyman, P. Pernot, S. Schlemmer, F. Selsis, I.R. Sims, D. Talbi, J. Tennyson, J. Troe, R. Wester and L. Wiesenfeld: A KInetic Database for Astrochemistry (KIDA). Ap. J. Supp. Ser. 199, 21 (2012).

Wang, J., G. Kauffmann, R. Overzier, L.J. Tacconi, X. Kong, A. Saintonge, B. Catinella, D. Schiminovich, S.M. Moran and B. Johnson: Quantifying the role of bars in the build-up of central mass concentrations in disc galaxies. Mon. Not. R. Astron. Soc. 423, 3486-3501 (2012).

Wang, L., S.M. Weinmann and E. Neistein: A modified star formation law as a solution to open problems in galaxy evolution. Mon. Not. R. Astron. Soc. 421, 3450-3463 (2012).

Wang, T., J.-S. Huang, S.M. Faber, G. Fang, S. Wuyts, G.G. Fazio, H. Yan, A. Dekel, Y. Guo, H.C. Ferguson, N. Grogin, J.M. Lotz, B. Weiner, E.J. McGrath, D. Kocevski, N.P. Hathi, R.A. Lucas, A.M. Koekemoer, X. Kong and Q.-S. Gu: CANDELS: Correlations of Spectral Energy Distributions and Morphologies with Star formation Status for Massive Galaxies at z ~ 2. Ap. J. 752, 134 (2012).

Wegner, G.A., E.M. Corsini, J. Thomas, R.P. Saglia, R. Bender and S.B. Pu: Further Evidence for Large Central Mass-to-light Ratios in Early-type Galaxies: The Case of Ellipticals and Lenticulars in the A262 Cluster. Astron. J. 144, 78 (2012).

Welz, C., S. Becker, Y.-F. Li, T. Shimizu, J. Jeon, S. Schwenk-Zieger, H.M. Thomas, G. Isbary, G.E. Morfill, U. Harréus and J.L. Zimmermann: Effects of cold atmospheric plasma on mucosal tissue culture. Journal of Physics D: Applied Physics 46, 045401, (2012).

Wiersema, K., P.A. Curran, T. Krühler, A. Melandri, E. Rol, R.L.C. Starling, N.R. Tanvir, A.J. van der Horst, S. Covino, J.P.U. Fynbo, P. Goldoni, J. Gorosabel, J. Hjorth, S. Klose, C.G. Mundell, P.T. O'Brien, E. Palazzi, R.A.M.J. Wijers, V. D'Elia, P.A. Evans, R. Filgas, A. Gomboc, J. Greiner, C. Guidorzi, L. Kaper, S. Kobayashi, C. Kouveliotou, A.J. Levan, A. Rossi, A. Rowlinson, I.A. Steele, A. de Ugarte Postigo and S.D. Vergani: Detailed optical and near-infrared polarimetry, spectroscopy and broad-band photometry of the afterglow of GRB 091018: polarization evolution. Mon. Not. R. Astron. Soc. 426, 2-22 (2012).

Williams, J.D., E. Thomas, Jr., L. Couëdel, A.V. Ivlev, S.K. Zhdanov, V. Nosenko, H.M. Thomas and G.E. Morfill: Kinetics of the melting front in two-dimensional plasma crystals: Complementary analysis with the particle image and particle tracking velocimetries. Physical Review E 86, 046401 (2012).

Williams, M.J., M. Bureau and H. Kuntschner: Secular evolution in action: central values and radial trends in the stellar populations of boxy bulges. Mon. Not. R. Astron. Soc. 427, L99-L103 (2012).

Wilman, D.J. and P. Erwin: The Relation between Galaxy Morphology and Environment in the Local Universe: An RC3-SDSS Picture. Ap. J. 746, 160 (2012).

Wilson-Hodge, C.A., G.L. Case, M.L. Cherry, J. Rodi, A. Camero-Arranz, P. Jenke, V. Chaplin, E. Beklen, M. Finger, N. Bhat, M.S. Briggs, V. Connaughton, J. Greiner, R.M. Kippen, C.A. Meegan, W.S. Paciesas, R. Preece and A. von Kienlin: Three Years of Fermi GBM Earth Occultation Monitoring: Observations of Hard X-Ray/Soft Gamma-Ray Sources. Ap. J. Supp. Ser. 201, 33 (2012).

Wuyts, S., N.M. Förster Schreiber, R. Genzel, Y. Guo, G. Barro, E.F. Bell, A. Dekel, S.M. Faber, H.C. Ferguson, M. Giavalisco, N.A. Grogin, N.P. Hathi, K.-H. Huang, D.D. Kocevski, A.M. Koekemoer, D.C. Koo, J. Lotz, D. Lutz, E. McGrath, J.A. Newman, D. Rosario, A. Saintonge, L.J.

Tacconi, B.J. Weiner and A. van der Wel: Smooth(er) Stellar Mass Maps in CANDELS: Constraints on the Longevity of Clumps in High-redshift Star-forming Galaxies. Ap. J. 753, 114 (2012).

Wörner, L., C. Räth, V. Nosenko, S.K. Zhdanov, H.M. Thomas, G.E. Morfill, J. Schablinski and D. Block: String structures in driven 3D complex-plasma clusters. EPL (Europhysics Letters) 100, 35001 (2012).

Wörner, L., E. Kovacevic, J. Berndt, H.M. Thomas, M.H. Thoma, L. Boufendi and G.E. Morfill: The formation and transport phenomena of nanometre-sized particles in a dc plasma. New J. Phys. 14, 023024 (2012).

Xiong, S., M.S. Briggs, V. Connaughton, G.J. Fishman, D. Tierney, G. Fitzpatrick, S. Foley, S. Guiriec, R.H. Holzworth and M.L. Hutchins: Location prediction of electron TGFs. J. Geophys. Res. (Space Phys.) 117, 2309 (2012).

Xu, C.K., D.L. Shupe, M. Béthermin, H. Aussel, S. Berta, J. Bock, C. Bridge, A. Conley, A. Cooray, D. Elbaz, A. Franceschini, E. Le Floc'h, N. Lu, D. Lutz, B. Magnelli, G. Marsden, S.J. Oliver, F. Pozzi, L. Riguccini, B. Schulz, N. Scoville, M. Vaccari, J.D. Vieira, L. Wang and M. Zemcov: Cosmic Evolution of Star Formation Enhancement in Close Major-merger Galaxy Pairs Since z = 1. Ap. J. 760, 72 (2012).

Yildiz, U.A., L.E. Kristensen, E.F. van Dishoeck, A. Belloche, T.A. van Kempen, M.R. Hogerheijde, R. Güsten and N. van der Marel: APEX-CHAMP$^+$ high-J CO observations of low-mass young stellar objects. III. NGC 1333 IRAS 4A/4B envelope, outflow, and ultraviolet heating. Astron. Astrophys. 542, A86 (2012).

Yaroshenko, V.V., S.A. Khrapak, H.M. Thomas and G.E. Morfill: Excitation of dust density waves in weak electric fields. Phys. Plasmas 19, 023702 (2012).

Yaroshenko, V.V., W.J. Miloch, H.M. Thomas and G.E. Morfill: Cassini capturing of freshly-produced water-group ions in the Enceladus torus. Geophys. Res. Lett. 39, 18108 (2012).

Yun, M.S., K.S. Scott, Y. Guo, I. Aretxaga, M. Giavalisco, J.E. Austermann, P. Capak, Y. Chen, H. Ezawa, B. Hatsukade, D.H. Hughes, D. Iono, S. Johnson, R. Kawabe, K. Kohno, J. Lowenthal, N. Miller, G. Morrison, T. Oshima, T.A. Perera, M. Salvato, J. Silverman, Y. Tamura, C.C. Williams and G.W. Wilson: Deep 1.1 mm-wavelength imaging of the GOODS-S field by AzTEC/ASTE - II. Redshift distribution and nature of the submillimetre galaxy population. Mon. Not. R. Astron. Soc. 420, 957-985 (2012).

Yusef-Zadeh, F., M. Wardle, K. Dodds-Eden, C.O. Heinke, S. Gillessen, R. Genzel, H. Bushouse, N. Grosso and D. Porquet: An Inverse Compton Scattering Origin of X-Ray Flares from Sgr A*. Astron. J. 144, 1 (2012).

Zafar, T., D. Watson, Á. Elíasdóttir, J.P.U. Fynbo, T. Krühler, P. Schady, G. Leloudas, P. Jakobsson, C.C. Thöne, D.A. Perley, A.N. Morgan, J. Bloom and J. Greiner: The Properties of the 2175 Å Extinction Feature Discovered in GRB Afterglows. Ap. J. 753, 82 (2012).

Zahn, O., C.L. Reichardt, L. Shaw, A. Lidz, K.A. Aird, B.A. Benson, L.E. Bleem, J.E. Carlstrom, C.L. Chang, H.M. Cho, T.M. Crawford, A.T. Crites, T. de Haan, M.A. Dobbs, O. Doré, J. Dudley, E.M. George, N.W. Halverson, G.P. Holder, W.L. Holzapfel, S. Hoover, Z. Hou, J.D. Hrubes, M. Joy, R. Keisler, L. Knox, A.T. Lee, E.M. Leitch, M. Lueker, D. Luong-Van, J.J. McMahon, J. Mehl, S.S. Meyer, M. Millea, J.J. Mohr, T.E. Montroy, T. Natoli, S. Padin, T. Plagge, C. Pryke, J.E. Ruhl, K.K. Schaffer, E. Shirokoff, H.G. Spieler, Z. Staniszewski, A.A. Stark, K. Story, A. van Engelen, K. Vanderlinde, J.D. Vieira and R. Williamson: Cosmic Microwave Background Constraints on the Duration and Timing of Reionization from the South Pole Telescope. Ap. J. 756, 65 (2012).

Zhang, X., D.N.C. Lin, A. Burkert and L. Oser: Galactoforensic of Large Magellanic Cloud's Orbital History as a Probe for the Dark Matter Potential in the Outskirts of the Galaxy. Ap. J. 759, 99 (2012).

Zhdanov, S.K., M.H. Thoma, C.A. Knapek and G.E. Morfill: Compact dislocation clusters in a two-dimensional highly ordered complex plasma. New J. Phys. 14, 023030 (2012).

Zheng, W., M. Postman, A. Zitrin, J. Moustakas, X. Shu, S. Jouvel, O. Høst, A. Molino, L. Bradley, D. Coe, L. Moustakas, M. Carrasco, H. Ford, N. Benítez, T. Lauer, S. Seitz, R. Bouwens, A. Koekemoer, E. Medezinski, M. Bartelmann, T. Broadhurst, M. Donahue, C. Grillo, L. Infante, S. Jha, D. Kelson, O. Lahav, D. Lemze, P. Melchior, M. Meneghetti, J. Merten, M. Nonino, S. Ogaz, P. Rosati, K. Umetsu, van der Wel, Arjen: A magnified young galaxy from about 500 million years after the Big Bang. Nature 489, 406-408 (2012).

Zhukhovitskii, D.I., V.E. Fortov, V.I. Molotkov, A.M. Lipaev, V.N. Naumkin, H.M. Thomas, A.V. Ivlev, M. Schwabe and G.E. Morfill: Nonviscous motion of a slow particle in a dust crystal under microgravity conditions. Physical Review E 86, 016401 (2012).

Zimmermann, J.L., T. Shimizu, H.-U. Schmidt, Y.-F. Li, G.E. Morfill and G. Isbary: Test for bacterial resistance build-up against plasma treatment. New J. Phys. 14, 073037 (2012).

Ziparo, F., F.G. Braglia, D. Pierini, A. Finoguenov, H. Böhringer and A. Bongiorno: In the whirlpool's coils: tracing substructure from combined optical/X-ray data in the galaxy cluster A1300. Mon. Not. R. Astron. Soc. 420, 2480-2496 (2012).

Zitrin, A., P. Rosati, M. Nonino, C. Grillo, M. Postman, D. Coe, S. Seitz, T. Eichner, T. Broadhurst, S. Jouvel, I. Balestra, A. Mercurio, M. Scodeggio, N. Benítez, L. Bradley, H. Ford, O. Host, Y. Jimenez-Teja, A. Koekemoer, W. Zheng, M. Bartelmann, R. Bouwens, O. Czoske, M. Donahue, O. Graur, G. Graves, L. Infante, S. Jha, D. Kelson, O. Lahav, R. Lazkoz, D. Lemze, M. Lombardi, D. Maoz, C. McCully, E. Medezinski, P. Melchior, M. Meneghetti, J. Merten, A. Molino, L.A. Moustakas, S. Ogaz, B. Patel, E. Regoes, A. Riess, S. Rodney, K. Umetsu and A. Vander Wel: CLASH: New Multiple Images Constraining the Inner Mass Profile of MACS J1206.2-0847. Ap. J. 749, 97 (2012).

Referierte Proceedings

Boller, T.: Inner disc reflection and AGN accretion states. AGN review. Mem. Soc. Astron. Ital. 83, 132 (2012).

Boller, Th.: Soft X-ray Reflection and Strong and Weak Field Limit Determination in Narrow-Line Seyfert 1 Galaxies. In: Exploring Fundamental Issues in Nuclear Physics, GOA, India. (Ed.) D. Bandyopadhyay. World Scientific Publishing Vol. 1, Saha Institut of Nuclear Physics, Goa, ISBN #978981435576644-52 (2012).

Greiner, J., T. Krühler, P.M.J. Afonso, C. Clemens, J. Elliott, R. Filgas, D. Gruber, D.H. Hartmann, D.A. Kann, S. Klose, A. Küpcü Yoldaş, S. McBreen, M. Nardini, A. Nicuesa Guelbenzu, F. Olivares E., D. Pierini, A. Rau, A. Rossi, S. Savaglio, P. Schady, V. Sudilovsky and A.C. Updike: GROND view of "dark bursts" and the related bias in host galaxy properties. Mem. Soc. Astron. Ital. Suppl. 21, 121 (2012).

Gruber, D., T. Krühler, S. Foley, M. Nardini, D. Burlon, A. Rau, E. Bissaldi, A. von Kienlin, S. McBreen, J. Greiner, and Fermi/GBM Collaboration: Fermi/GBM observations of the ultra-long GRB 091024. Mem. Soc. Astron. Ital. Suppl. 21, 235 (2012).

Monetti, R.A., J. Bauer, I. Sidorenko, T. Baum, E. Rummeny, M. Matsuura, F. Eckstein, E.-M. Lochmueller, P. Zysset and C. Räth: Application of anisotropic structure measures for the classification of µ-CT images of human trabecular bone. In Proc. of "Medical Imaging 2012: Biomedical Applications in Molecular, Structural, and Functional Imaging", San Diego, USA, 2012. (Eds.) R.C. Molthen, J.B. Weaver. SPIE Conference Proceedings 8317E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 831716-831716-11 (2012).

Räth, C., T. Baum, I. Sidorenko, R. Monetti, F. Eckstein, M. Matsuura, E.-M. Lochmüller, P.K. Zysset and J. Bauer: Similarities and differences in the mass-structure scaling relations of the trabecular bone taken from different locations in the femur. In Proc. of "Medical Imaging 2012: Biomedical Applications in Molecular, Structural, and Functional Imaging", San Diego, USA, 2012. (Eds.) R.C. Molthen, J.B. Weaver. SPIE Conference Proceedings 8317E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 831718-831718-7 (2012).

Schady, P., T. Dwelly, M.J. Page, J. Greiner, T. Kruehler, S. Savaglio, S.R. Oates and A. Rau: Dust and metal column densities in GRB host galaxies. In: Proceedings of The Death of Massive Stars: Supernovae and Gamma-Ray Bursts. (Eds.) P.W.A. Roming, N. Kawai, E. Pian. Proceedings of the IAU Vol. 279, Cambridge University Press, Cambridge, UK, 199-206 (2012).

Schady, P., T. Dwelly, M.J. Page, T. Krühler, J. Greiner, S.R. Oates, M. De Pasquale, M. Nardini, P.W.A. Roming, A. Rossi and M. Still: Dust extinction curves of GRB host galaxies. Mem. Soc. Astron. Ital. Suppl. 21, 113 (2012).

Sidorenko, I.N., J. Bauer, R. Monetti, T. Baum, E.J. Rummeny, F. Eckstein, M. Matsuura, E.-M. Lochmueller, P.K. Zysset and C.W. Raeth: Assessment of global morphological and topological changes in trabecular structure under the bone resorption process. In Proc. of "Medical Imaging 2012: Biomedical Applications in Molecular, Structural, and Functional Imaging", San Diego, USA, 2012. (Eds.) R.C. Molthen, J.B. Weaver. SPIE Conference Proceedings 8317E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 83171Z-83171Z-7 (2012).

Slowikowska, A., G. Kanbach, A. Stefanescu and Z. Ioannou: Optical Photo-polarimetry of the Crab Pulsar and the Transiting Planet TrES-3. In: Astronomical Polarimetry 2008: Science from Small to Large Telescopes. Workshop at Fairmont Le Manoir Richelieu, La Malbaie, Quebec, Canada 6-11 July 2008. (Eds.) P. Bastien, N. Manset, D.P. Clemens, N. St-Louis. ASP Conference Series Vol. 449, Astronomical Society of the Pacific, San Francisco, 376-380 (2012).

Instrumentelle Publikationen

Amico, P., E. Marchetti, F. Pedichini, A. Baruffolo, B. Delabre, M. Duchateau, M. Ekinci, D. Fantinel, E. Fedrigo, G. Finger, C. Frank, R. Hofmann, P. Jolley, J.L. Lizon, M. Le Louarn, P.-Y. Madec, C. Soenke and H. Weisz: The design of ERIS for the VLT. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844620-844620-17 (2012).

Amorim, A., J. Lima, N. Anugu, F. Eisenhauer, A. Graeter, M. Haug, T. Ott, O. Pfuhl, M. Thiel, E. Wieprecht, P. Carvas, P. Garcia, G. Perrin, W. Brandner, C. Straubmeier and K. Perraut: The final design of the GRAVITY acquisition camera and associated VLTI beam monitoring strategy. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844534-844534-14 (2012).

Araujo-Hauck, C., S. Fischer, S. Gillessen, C. Straubmeier, M. Wiest, S. Yazici, I. Wank, F. Eisenhauer, G.S. Perrin, W. Brandner, K. Perraut, A. Amorim and A. Eckart: The GRAVITY spectrometers: metrology laser blocking system. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84452S-84452S-10 (2012).

Aschauer, S., P. Lechner, M. Porro, C. Sandow and G. Weidenspointner: Calibration of DEPFETs with Internal Signal Compression. IEEE NSS-MIC conference record, N1-228, (2012).

Bavdaz, M., E. Wille, K. Wallace, B. Shortt, M. Collon, M. Ackermann, M. Olde Riekerink, J. Haneveld, C. van Baren, M. Erhard, F. Christensen, M. Krumrey and V. Burwitz: Silicon pore optics developments and status. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844329-844329-9 (2012).

Berthomier, M., A.N. Fazakerley, C. Forsyth, R. Pottelette, O. Alexandrova, A. Anastasiadis, A. Aruliah, P.-L. Blelly, C. Briand, R. Bruno, P. Canu, B. Cecconi, T. Chust, I. Daglis, J. Davies, M. Dunlop, D. Fontaine, V. Génot, B. Gustavsson, G. Haerendel, M. Hamrin, M. Hapgood, S. Hess, D. Kataria, K. Kauristie, S. Kemble, Y. Khotyaintsev, H. Koskinen, L. Lamy, B. Lanchester, P. Louarn, E. Lucek, R. Lundin, M. Maksimovic, J. Manninen, A. Marchaudon, O. Marghitu, G. Marklund, S. Milan, J. Moen, F. Mottez, H. Nilsson, N. Ostgaard, C.J. Owen, M. Parrot, A. Pedersen, C. Perry, J.-L. Pincon, F. Pitout, T. Pulkkinen, I.J. Rae, L. Rezeau, A. Roux, I. Sandahl, I. Sandberg, E. Turunen, J. Vogt, A. Walsh, C.E.J. Watt, J.A. Wild, M. Yamauchi, P. Zarka and I. Zouganelis: Alfvén: magnetosphere—ionosphere connection explorers. Experimental Astronomy 33, 445-489 (2012).

Bogner, S., M. Becker, F. Grupp, F. Lang-Bardl, S. Hu, M. Beyerlein, J. Lamprecht, J. Pfund, U. Hopp, R. Bender and B. Fleck: Test system for a Shack-Hartmann sensor based telescope alignment demonstrated at the 40cm Wendelstein Telescope. In Proc. of "Ground-based and Airborne Telescopes IV", Amsterdam, The Netherlands, 2012. (Eds.) L.M. Stepp, R. Gilmozzi, H.J. Hall. SPIE Conference Proceedings 8444E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844458-844458-6 (2012).

Boller, T. and T. Dwelly: The 4MOST facility simulator: instrument and science optimisation. In Proc. of "Observatory Operations: Strategies, Process, and Systems IV", Amsterdam, The Netherlands, 2012. (Eds.) A.B. Peck, R.L. Seamon, F. Comeraon. SPIE Conference Proceedings 8448E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84480X-84480X-7 (2012).

Bonaglia, M., L. Busoni, L. Carbonaro, F. Quiròs Pacheco, M. Xompero, S. Esposito, G. Orban de Xivry and S. Rabien: Laboratory characterization of the ARGOS laser wavefront sensor. In Proc. of "Adaptive Optics Systems III", Amsterdam, The Netherlands, 2012. (Eds.) B.L. Ellerbroek, E. Marchetti, J.-P. Veran. SPIE Conference Proceedings 8447E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84476B-84476B-11 (2012).

Borelli, J., L. Barl, W. Gässler, M. Kulas and S. Rabien: Service-oriented architecture for the ARGOS instrument control software. In Proc. of "Software and Cyberinfrastructure for Astronomy II", Amsterdam, The Netherlands, 2012. (Eds.) N.M. Radziwill, G. Chiozzi. SPIE Conference Proceedings 8451E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84510G-84510G-9 (2012).

Braig, C., V. Burwitz, T. Käsebier, E.-B. Kley, P. Predehl and A. Tünnermann: Resolution limits of transmission optics for x-ray astronomy. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844341-844341-6 (2012).

Brucalassi, A., T. Feger, F. Grupp, F. Lang-Bardl, S.M. Hu, U. Hopp and R. Bender: Pressure and temperature stabilization of an existing Echelle spectrograph III. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society

for Optical Engineering, Bellingham, WA USA, 84462F-84462F-9 (2012).

Burtscher, L., K.R.W. Tristram, W.J. Jaffe and K. Meisenheimer: Observing faint targets with MIDI at the VLTI: the MIDI AGN large programme experience. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84451G-84451G-13 (2012).

Buschkamp, P., W. Seifert, K. Polsterer, R. Hofmann, H. Gemperlein, R. Lederer, M. Lehmitz, V. Naranjo, N. Ageorges, J. Kurk, F. Eisenhauer, S. Rabien, M. Honsberg and R. Genzel: LUCI in the sky: performance and lessons learned in the first two years of near-infrared multi-object spectroscopy at the LBT. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84465L-84465L-11 (2012).

Bähr, A., S. Aschauer, K. Hermenau, S. Herrmann, P.H. Lechner, G. Lutz, P. Majewski, D. Miessner, M. Porro, R.H. Richter, G. Schaller, C. Sandow, M. Schnecke, F. Schopper, A. Stefanescu, L. Strüder and J. Treis: New simulation and measurement results on gateable DEPFET devices. In Proc. of "High Energy, Optical, and Infrared Detectors for Astronomy V", Amsterdam, The Netherlands, 2012. (Eds.) A.D. Holland, J.W. Beletic. SPIE Conference Proceedings 8453E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84530N-84530N-13 (2012).

Cirasuolo, M., J. Afonso, R. Bender, P. Bonifacio, C. Evans, L. Kaper, E. Oliva, L. Vanzi, M. Abreu, E. Atad-Ettedgui, C. Babusiaux, F.E. Bauer, P. Best, N. Bezawada, I.R. Bryson, A. Cabral, K. Caputi, M. Centrone, F. Chemla, A. Cimatti, M.-R. Cioni, G. Clementini, J. Coelho, E. Daddi, J.S. Dunlop, S. Feltzing, A. Ferguson, H. Flores, A. Fontana, J. Fynbo, B. Garilli, A.M. Glauser, I. Guinouard, J.-F. Hammer, P.R. Hastings, H.-J. Hess, R.J. Ivison, P. Jagourel, M. Jarvis, G. Kauffman, A. Lawrence, D. Lee, G. Li Causi, S. Lilly, D. Lorenzetti, R. Maiolino, F. Mannucci, R. McLure, D. Minniti, D. Montgomery, B. Muschielok, K. Nandra, R. Navarro, P. Norberg, L. Origlia, N. Padilla, J. Peacock, F. Pedicini, L. Pentericci, J. Pragt, M. Puech, S. Randich, A. Renzini, N. Ryde, M. Rodrigues, F. Royer, R. Saglia, A. Sánchez, H. Schnetler, D. Sobral, R. Speziali, S. Todd, E. Tolstoy, M. Torres, L. Venema, F. Vitali, M. Wegner, M. Wells, V. Wild and G. Wright: MOONS: a multi-object optical and near-infrared spectrograph for the VLT. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84460S-84460S-9 (2012).

Civitani, M.M., O. Citterio, S. Campana, P. Conconi, E. Mattaini, G. Pareschi, G. Tagliaferri, G. Parodi, V. Burwitz, G.D. Hartner, J. Arnold, S. Schuler, H. Combrinck, R. Freeman, R. Morton, P. Simpson and D. Walker: Thin glass shell oriented to wide field x-ray telescope. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84430Q-84430Q-13 (2012).

Colditz, S., F. Fumi, N. Geis, R. Hönle, R. Klein, A. Krabbe, L. Looney, A. Poglitsch, W. Raab, M. Savage, F. Rebell and C. Fischer: The SOFIA far-infrared spectrometer FIFI-LS: spearheading a post Herschel era. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844617-844617-11 (2012).

de Jong, R.S., O. Bellido-Tirado, C. Chiappini, É. Depagne, R. Haynes, D. Johl, O. Schnurr, A. Schwope, J. Walcher, F. Dionies, D. Haynes, A. Kelz, F.S. Kitaura, G. Lamer, I. Minchev, V. Müller, S.E. Nuza, J.-C. Olaya, T. Piffl, E. Popow, M. Steinmetz, U. Ural, M. Williams, R. Winkler, L. Wisotzki, W.R. Ansorge, M. Banerji, E. Gonzalez Solares, M. Irwin, R.C. Kennicutt, D. King, R.G. McMahon, S. Koposov, I.R. Parry, D. Sun, N.A. Walton, G. Finger, O. Iwert, M. Krumpe, J.-L. Lizon, M. Vincenzo, J.-P. Amans, P. Bonifacio, M. Cohen, P. Francois, P. Jagourel, S.B. Mignot, F. Royer, P. Sartoretti, R. Bender, F. Grupp, H.-J. Hess, F. Lang-Bardl, B. Muschielok, H. Böhringer, T. Boller, A. Bongiorno, M. Brusa, T. Dwelly, A. Merloni, K. Nandra, M. Salvato, J.H. Pragt, R. Navarro, G. Gerlofsma, R. Roelfsema, G.B. Dalton, K.F. Middleton, I.A. Tosh, C. Boeche, E. Caffau, N. Christlieb, E.K. Grebel, C. Hansen, A. Koch, H.-G. Ludwig, A. Quirrenbach, L. Sbordone, W. Seifert, G. Thimm, T. Trifonov, A. Helmi, S.C. Trager, S. Feltzing, A. Korn and W. Boland: 4MOST: 4-metre multi-object spectroscopic telescope. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84460T-84460T-15 (2012).

den Herder, J.-W., L. Piro, T. Ohashi, ..., P. Friedrich,..., P. Predehl, et al.: ORIGIN: metal creation and evolution from the cosmic dawn. Experimental Astronomy 34, 519-549 (2012).

Dennerl, K., W. Burkert, V. Burwitz, M. Freyberg, P. Friedrich and G. Hartner: Determination of the eROSITA mirror half energy width (HEW) with subpixel resolution. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844350-844350-22 (2012).

Fabricius, M.H., F. Grupp, R. Bender, N. Drory, J. Arns, S. Barnes, C. Gössl, J. Snigula, G.J. Hill, U. Hopp, F. Lang-Bardl, P.J. MacQueen, R. Saglia and P. Wullstein: VIRUS-W: commissioning and first-year results of a new integral field unit spectrograph dedicated to the study of spiral

galaxy bulges. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84465K-84465K-11 (2012).

Feger, T., A. Brucalassi, F.U. Grupp, F. Lang-Bardl, R. Holzwarth, U. Hopp and R. Bender: A testbed for simultaneous measurement of fiber near and far-field for the evaluation of fiber scrambling properties. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844692-844692-14 (2012).

Feroci, M., L. Stella, M. van der Klis, …, G. Kanbach, et al.: The Large Observatory for X-ray Timing (LOFT). Experimental Astronomy 34, 415-444 (2012).

Fiorini, C., P. Busca, R. Peloso, A. Abba, A. Geraci, C. Bianchi, G.L. Poli, G. Virotta, K. Erlandsson, B.F. Hutton, P. Lechner, H. Soltau, L. Struder, A. Pedretti, P. Van Mullekom, L. Ottobrini and G. Lucignani: The HICAM Gamma Camera. C 59, 537-544 (2012).

Fischer, S., C. Straubmeier, C. Araujo-Hauck, S. Yazici, M. Wiest, I. Wank, F. Eisenhauer, G. Perrin, A. Eckart, K. Perraut, W. Brandner, A. Amorim and M. Schöller: The GRAVITY spectrometers: system design. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84451W-84451W-9 (2012).

Foley, S., A. Zoglauer, J. Greiner and G. Kanbach: Simulations for a proposed gamma-ray space telescope using MEGAlib. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84433A-84433A-8 (2012).

Freyberg, M.J. and K. Dennerl: eROSITA in-orbit calibration strategy and plan: from the ground to the science. In Proc. of "Observatory Operations: Strategies, Process, and Systems IV", Amsterdam, The Netherlands, 2012. (Eds.) A.B. Peck, R.L. Seamon, F. Comeraon. SPIE Conference Proceedings 8448E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84480Y-84480Y-10 (2012).

Freyberg, M.J., B. Budau, V. Burwitz, K. Dennerl, G. Hartner, A. von Kienlin, B. Menz and B. Mican: Calibration of the eROSITA calibration source: design and trade-off analysis. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844351-844351-11 (2012).

Friedrich, P., H. Bräuninger, B. Budau, W. Burkert, V. Burwitz, K. Dennerl, J. Eder, M. Freyberg, R. Gaida, G. Hartner, B. Menz, E. Pfeffermann, P. Predehl, C. Rohé and R. Schreib: Development and testing of the eROSITA mirror modules. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84431S-84431S-8 (2012).

Fürmetz, M., J. Eder, E. Pfeffermann, P. Predehl and L. Tiedemann: The thermal control system of the x-ray telescope eROSITA on Spektrum-Roentgen-Gamma. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844352-844352-12 (2012).

Gal, C., A. Reutlinger, A. Boesz, T. Leberle, A. Mottaghibonab, P. Eckert, M. Dubowy, H. Gebler, F. Grupp, N. Geis, A. Bode, R. Katterloher and R. Bender: Test results of high-precision large cryogenic lens holders. In Proc. of "Modern Technologies in Space- and Ground-based Telescopes and Instrumentation II", Amsterdam, The Netherlands, 2012. (Eds.) R. Navarro, C.R. Cunningham, E. Prieto. SPIE Conference Proceedings 8450E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84500P-84500P-13 (2012).

Gillessen, S., M. Lippa, F. Eisenhauer, O. Pfuhl, M. Haug, S. Kellner, T. Ott, E. Wieprecht, E. Sturm, F. Haußmann, C.F. Kister, D. Moch and M. Thiel: GRAVITY: metrology. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84451O-84451O-9 (2012).

Greiner, J., K. Mannheim, F. Aharonian, M. Ajello, L.G. Balasz, G. Barbiellini, R. Bellazzini, S. Bishop, G.S. Bisnovatij-Kogan, S. Boggs, A. Bykov, G. Di Cocco, R. Diehl, D. Elsässer, S. Foley, C. Fransson, N. Gehrels, L. Hanlon, D. Hartmann, W. Hermsen, W. Hillebrandt, R. Hudec, A. Iyudin, J. Jose, M. Kadler, G. Kanbach, W. Klamra, J. Kiener, S. Klose, I. Kreykenbohm, L.M. Kuiper, N. Kylafis, C. Labanti, K. Langanke, N. Langer, S. Larsson, B. Leibundgut, U. Laux, F. Longo, K. Maeda, R. Marcinkowski, M. Marisaldi, B. McBreen, S. McBreen, A. Meszaros, K. Nomoto, M. Pearce, A. Peer, E. Pian, N. Prantzos, G. Raffelt, O. Reimer, W. Rhode, F. Ryde, C. Schmidt, J. Silk, B.M. Shustov, A. Strong, N. Tanvir, F.-K. Thielemann, O. Tibolla, D. Tierney, J. Trümper, D.A. Varshalovich, J. Wilms, G. Wrochna, A. Zdziarski and A. Zoglauer: GRIPS - Gamma-Ray Imaging, Polarimetry and Spectroscopy. Experimental Astronomy 34, 551-582 (2012).

Grupp, F., E. Prieto, N. Geis, A. Bode, R. Katterloher, R. Grange, V. Junk and R. Bender: The optical baseline concept of the NISP near infrared spectrometer and photometer on board of the ESA/EUCLID satellite. In Proc. of "Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave", Amsterdam, The Netherlands, 2012. (Eds.) M.C. Clampin, G.G. Fazio, H.A. MacEwen, J.M. Oschmann. SPIE Conference Procee-

dings 8442E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84420X-84420X-11 (2012).

Grupp, F., F. Lang-Bardl and R. Bender: A wide field corrector concept including an atmospheric dispersion corrector for the ESO-NTT. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84465Z-84465Z-7 (2012).

Gässler, W., S. Rabien, S. Esposito, M. Lloyd-Hart, L. Barl, U. Beckmann, T. Bluemchen, M. Bonaglia, J.L. Borelli, G. Brusa, J. Brynnel, P. Buschkamp, L. Busoni, L. Carbonaro, C. Connot, R. Davies, M. Deysenroth, O. Durney, R. Green, H. Gemperlein, V. Gasho, M. Haug, P. Hubbard, S. Ihle, M. Kulas, R. Lederer, J. Lewis, C. Loose, M. Lehmitz, J. Noenickx, E. Nussbaum, G. Orban de Xivry, D. Peter, A. Quirrenbach, M. Rademacher, W. Raab, J. Storm, C. Schwab, V. Vaitheeswaran and J. Ziegleder: Status of the ARGOS ground layer adaptive optics system. In Proc. of "Adaptive Optics Systems III", Amsterdam, The Netherlands, 2012. (Eds.) B.L. Ellerbroek, E. Marchetti, J.-P. Veran. SPIE Conference Proceedings 8447E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844702-844702-10 (2012).

Gössl, C., R. Bender, M. Fabricius, U. Hopp, A. Karasz, R. Kosyra and F. Lang-Bardl: Commissioning of the WWFI for the Wendelstein Fraunhofer Telescope. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84463P-84463P-10 (2012).

Hauf, S., M. Kuster, D.H.H. Hoffmann, P.-M. Lang, S. Neff, M.G. Pia and L. Strüder: Background simulations for the wide field imager aboard the ATHENA X-ray Observatory. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84435J-84435J-7 (2012).

Haug, M., F. Haussmann, S. Kellner, R. Hofmann, J. Eder, F. Eisenhauer, J.-L. Lizon, G. Thummes and H. Weisz: The cryostat for the GRAVITY beam combiner instrument at the VLTI. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J. K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84452V-84452V-16 (2012).

Hill, G.J., S.E. Tuttle, H. Lee, B.L. Vattiat, M.E. Cornell, D.L. De Poy, N. Drory, M.H. Fabricius, A. Kelz, J.L. Marshall, J.D. Murphy, T. Prochaska, R.D. Allen, R. Bender, G. Blanc, T. Chonis, G. Dalton, K. Gebhardt, J. Good, D. Haynes, T. Jahn, P.J. MacQueen, M.D. Rafal, M.M. Roth, R.D. Savage and J. Snigula: VIRUS: production of a massively replicated 33k fiber integral field spectrograph for the upgraded Hobby-Eberly Telescope. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84460N-84460N-20 (2012).

Hopp, U., R. Bender, F. Grupp, H. Thiele, N. Ageorges, P. Aniol, H. Barwig, C. Gössl, F. Lang-Bardl, W. Mitsch and M. Ruder: First tests of the compact low scattered-light 2m-Wendelstein Fraunhofer Telescope. In Proc. of "Ground-based and Airborne Telescopes IV", Amsterdam, The Netherlands, 2012. (Eds.) L.M. Stepp, R. Gilmozzi, H.J. Hall. SPIE Conference Proceedings 8444E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84442V-84442V-8 (2012).

Ihle, S., I. Ordavo, A. Bechteler, R. Hartmann, P. Holl, A. Liebel, N. Meidinger, H. Soltau, L. Strüder and U. Weber: A compact high-speed pnCCD camera for optical and x-ray applications. In Proc. of "High Energy, Optical, and Infrared Detectors for Astronomy V", Amsterdam, The Netherlands, 2012. (Eds.) A.D. Holland, J.W. Beletic. SPIE Conference Proceedings 8453E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84531A-84531A-9 (2012).

Jocou, L., K. Perraut, A. Nolot, T. Moulin, Y. Magnard, P. Labeye, V. Lapras, F. Eisenhauer, G. Perrin, A. Amorim, W. Brandner and C. Straubmeier: The integrated optics beam combiner assembly of the GRAVITY/VLTI instrument. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84452X-84452X-13 (2012).

Kendrew, S., S. Hippler, W. Brandner, Y. Clénet, C. Deen, E. Gendron, A. Huber, R. Klein, W. Laun, R. Lenzen, V. Naranjo, U. Neumann, J. Ramos, R.-R. Rohloff, P. Yang, F. Eisenhauer, A. Amorim, K. Perraut, G. Perrin, C. Straubmeier, E. Fedrigo and M. Suarez Valles: GRAVITY Coudé Infrared Adaptive Optics (CIAO) system for the VLT Interferometer. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84467W-84467W-9 (2012).

Kulas, M., L. Barl, J.L. Borelli, W. Gässler and S. Rabien: Instrument control software development process for the multi-star AO system ARGOS. In Proc. of "Software and Cyberinfrastructure for Astronomy II", Amsterdam, The Netherlands, 2012. (Eds.) N.M. Radziwill, G. Chiozzi. SPIE Conference Proceedings 8451E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 845109-845109-7 (2012).

Lang-Bardl, F., R. Bender, F. Grupp, M. Häuser, H.-J. Hess, V. Junk, R. Kosyra, B. Muschielok, J. Richter, J. Schlichter and C. Schwab: A fibre positioner solution for

the 4MOST instrument. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844661-844661-7 (2012).

Liebel, A., H. Soltau, R. Eckhardt, O. Jaritschin, A. Niculae and F. Schopper: New Results with Next Generation Solid State Backscattered Electron Detectors. Microscopy and Microanalysis 18, 1206-1207 (2012).

Loose, C., S. Rabien, L. Barl, J. Borelli, M. Deysenroth, W. Gaessler, H. Gemperlein, M. Honsberg, M. Kulas, R. Lederer, W. Raab, G. Rahmer and J. Ziegleder: Testing and integrating the laser system of ARGOS: the ground layer adaptive optics for LBT. In Proc. of "Adaptive Optics Systems III", Amsterdam, The Netherlands, 2012. (Eds.) B.L. Ellerbroek, E. Marchetti, J.-P. Veran. SPIE Conference Proceedings 8447E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84474I-84474I-11 (2012).

Majewski, P., F. Aschauer, A. Bähr, G. de Vita, B. Günther, K. Hermenau, S. Herrmann, M. Hilchenbach, T. Lauf, P. Lechner, G. Lutz, D. Miessner, M. Porro, J. Reiffers, G. Schaller, F. Schopper, H. Soltau, A. Stefanescu, R. Strecker, L. Strüder and J. Treis: Integration and calibration of DEPFET macropixel detectors for MIXS. In Proc. of "High Energy, Optical, and Infrared Detectors for Astronomy V", Amsterdam, The Netherlands, 2012. (Eds.) A.D. Holland, J.W. Beletic. SPIE Conference Proceedings 8453E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84530Q-84530Q-9 (2012).

Majewski, P., L. Andricek, A. Bahr, G. De Vita, B. Gunther, K. Hermenau, M. Hilchenbach, T. Lauf, P. Lechner, G. Lutz, D. Miessner, M. Porro, J. Reiffers, R. Richter, G. Schaller, M. Schnecke, F. Schopper, H. Soltau, A. Stefanescu, R. Strecker, L. Struder and J. Treis: DEPFET Macropixel Detectors for MIXS: Integration and Qualification of the Flight Detectors. C 59, 2479-2486 (2012).

Meidinger, N., R. Andritschke, F. Aschauer, J. Elbs, T. Eraerds, S. Granato, O. Hälker, G. Hartner, D. Mießner, D. Pietschner, P. Predehl, J. Reiffers, L. Strüder, A. von Kienlin and S. Walther: Design and performance of the eROSITA focal plane instrumentation. In Proc. of "High Energy, Optical, and Infrared Detectors for Astronomy V", Amsterdam, The Netherlands, 2012. (Eds.) A.D. Holland, J.W. Beletic. SPIE Conference Proceedings 8453E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84530P-84530P-11 (2012).

Mohr, J.J., R. Armstrong, E. Bertin, G. Daues, S. Desai, M. Gower, R. Gruendl, W. Hanlon, N. Kuropatkin, H. Lin, J. Marriner, D. Petravic, I. Sevilla, M. Swanson, T. Tomashek, D. Tucker and B. Yanny: The Dark Energy Survey data processing and calibration system. In Proc. of "Software and Cyberinfrastructure for Astronomy II", Amsterdam, The Netherlands, 2012. (Eds.) N.M. Radziwill, G. Chiozzi. SPIE Conference Proceedings 8451E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84510D-84510D-12 (2012).

Morgante, G., T. Maciaszek, L. Martin, M. Riva, F. Bortoletto, E. Prieto, C. Bonoli, L. Corcione, V. De Caprio, F. Grupp, S. Ligori, M. Trifoglio, L. Valenziano and F.M. Zerbi: Euclid NISP thermal control design. In Proc. of "Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave", Amsterdam, The Netherlands, 2012. (Eds.) M.C. Clampin, G.G. Fazio, H.A. MacEwen, J.M. Oschmann. SPIE Conference Proceedings 8442E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844234-844234-12 (2012).

Nandra, K., D. Barret, A. Fabian, L. Strueder, R. Willingale, M. Watson, P. Jonker, H. Kunieda, G. Miniutti, C. Motch and P. Predehl: GRAVITAS: general relativistic astrophysics via timing and spectroscopy. Experimental Astronomy 34, 445-462 (2012).

Niculae, A., M. Bornschlegl, R. Eckhardt, J. Herrmann, O. Jaritschin, S. Jeschke, L. Mungenast, P. Lechner, A. Liebel, H. Soltau, F. Schopper and L. Strueder: Optimizing the Low Energy Performance of Pole-shoe EDX Detectors. Microscopy and Microanalysis 18, 1202-1203 (2012).

Oliva, E., E. Diolaiti, B. Garilli, R. Gratton, D. Lorenzetti, P. Schipani, S. Scuderi, E. Vanzella, M. Cirasuolo, J. Afonso, R. Bender, P. Bonifacio, L. Kaper, L. Vanzi, C. Baffa, A. Bianco, C. Bonoli, F. Bortoletto, P. Bruno, L. Carbonaro, M. Centrone, G. Cresci, V. De Caprio, C. Del Vecchio, P. Di Marcantonio, A. Di Paola, F. D'Alessio, M. D'Alessandro, S. D'Orsi, G. Falcini, D. Ferruzzi, A. Fontana, I. Foppiani, M. Fumana, E. Giani, F. Leone, G. Li Causi, M. Lombini, R. Maiolino, F. Mannucci, L. Marty, L. Miglietta, M. Munari, R. Navarro, L. Origlia, L. Paioro, F. Pedichini, J. Pragt, S. Randich, M. Scodeggio, P. Spanò, R. Speziali, R. Stuik, A. Tozzi and F. Vitali: The design of the MOONS-VLT spectrometer. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84464V-84464V-9 (2012).

Orban de Xivry, G. and S. Rabien: A test bench for ARGOS: integration of sub-systems and validation of the wavefront sensing. In Proc. of "Adaptive Optics Systems III", Amsterdam, The Netherlands, 2012. (Eds.) B.L. Ellerbroek, E. Marchetti, J.-P. Veran. SPIE Conference Proceedings 8447E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844751-844751-8 (2012).

Perinati, E., C. Tenzer, A. Santangelo, K. Dennerl and M. Freyberg: Nuclear spallation by solar proton events and cosmic rays in the eROSITA and ATHENA focal plane configurations. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84432J-84432J-7 (2012).

Perinati, E., C. Tenzer, A. Santangelo, K. Dennerl, M. Freyberg and P. Predehl: The radiation environment in L-2 orbit: implications on the non-X-ray background of the eROSITA pn-CCD cameras. Experimental Astronomy 33, 39-53 (2012).

Perinati, E., S. Diebold, E. Kendziorra, A. Santangelo, C.

Tenzer, J. Jochum, S. Bugiel, R. Srama, E. Del Monte, M. Feroci, A. Rubini, A. Rachevski, G. Zampa, N. Zampa, I. Rashevskaya, A. Vacchi, P. Azzarello, E. Bozzo, J.-W. den Herder, S. Zane, S. Brandt, M. Hernanz, M.A. Leutenegger, R.L. Kelley, C.A. Kilbourne, N. Meidinger, L. Strüder, B. Cordier, D. Götz, G.W. Fraser, J.P. Osborne, K. Dennerl, M. Freyberg and P. Friedrich: Accelerator experiments with soft protons and hyper-velocity dust particles: application to ongoing projects of future x-ray missions. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84430O-84430O-13 (2012).

Peter, D., W. Gässler, J. Borelli, L. Barl and S. Rabien: Vibration control for the ARGOS laser launch path. In Proc. of "Adaptive Optics Systems III", Amsterdam, The Netherlands, 2012. (Eds.) B.L. Ellerbroek, E. Marchetti, J.-P. Veran. SPIE Conference Proceedings 8447E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84474J-84474J-8 (2012).

Pezzuto, S., R. Ottensamer, A. Mazy, H. Feuchtgruber, A.M. Di Giorgio, B. Vandenbussche, M. Benedettini, S.J. Liu, S. Molinari and D. Schito: The on-board software of the HERSCHEL/PACS instrument: three successful years of in-flight operations. In Proc. of "Observatory Operations: Strategies, Process, and Systems IV", Amsterdam, The Netherlands, 2012. (Eds.) A.B. Peck, R.L. Seamon, F. Comeraon. SPIE Conference Proceedings 8448E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844823-844823-14 (2012).

Pfuhl, O., M. Haug, F. Eisenhauer, D. Penka, A. Amorim, S. Kellner, S. Gillessen, T. Ott, E. Wieprecht, E. Sturm, F. Haußmann, S. Huber, M. Lippa, L. Burtscher, K. Rousselet-Perraut, C. Straubmeier, G. Perrin and W. Brandner: GRAVITY: beam stabilization and light injection subsystems. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84451U-84451U-20 (2012).

Plucinsky, P.P., A.P. Beardmore, J.M. De Pasquale, D. Dewey, A. Foster, F. Haberl, E.D. Miller, A.M.T. Pollock, J.L.L. Posson-Brown, S. Sembay and R.K. Smith: Cross-calibration of the x-ray instruments onboard the Chandra, Suzaku, Swift, and XMM-Newton Observatories using the SNR 1E 0102.2-7219. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 844312-844312-22 (2012).

Predehl, P.: eROSITA. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84431R-84431R-10 (2012).

Prieto, E., J. Amiaux, J.-L. Auguères, J.C. Barrière, C. Bonoli, F. Bortoletto, C. Cerna, L. Corcione, L. Duvet, A. Ealet, B. Garilli, P. Gondoin, F. Grupp, K. Jahnke, R.J. Laureijs, S. Ligori, O. Le Fèvre, T. Maciaszek, F. Madrid, J. Martignac, L. Martin, G. Morgante, Y. Mellier, T. Pamplona, R. Holmes, R. Grange, M. Riva, C. Rossin, G. Seidel, G. Smadja, R. Toledo-Moreo, M. Trifoglio, L. Valenziano and F. Zerbi: Euclid near-infrared spectrophotometer instrument concept at the end of the phase A study. In Proc. of "Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave", Amsterdam, The Netherlands, 2012. (Eds.) M.C. Clampin, G.G. Fazio, H.A. MacEwen, J.M. Oschmann. SPIE Conference Proceedings 8442E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84420W-84420W-11 (2012).

Rabien, S. and J. Ziegleder: Dynamical refocusing laser guide stars with membrane mirrors. In Proc. of "Adaptive Optics Systems III", Amsterdam, The Netherlands, 2012. (Eds.) B.L. Ellerbroek, E. Marchetti, J.-P. Veran. SPIE Conference Proceedings 8447E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84474P-84474P-8 (2012).

Reutlinger, A., A. Mottaghibonab, C. Gal, A. Boesz, F. Grupp, N. Geis, A. Bode, R. Katterloher and R. Bender: Glue test results for high-precision large cryogenic lens holder. In Proc. of "Modern Technologies in Space- and Ground-based Telescopes and Instrumentation II", Amsterdam, The Netherlands, 2012. (Eds.) R. Navarro, C.R. Cunningham, E. Prieto. SPIE Conference Proceedings 8450E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 845028-845028-12 (2012).

Roelfsema, P., M. Giard, F. Najarro, K. Wafelbakker, W. Jellema, B. Jackson, B. Swinyard, M. Audard, Y. Doi, M. Griffin, F. Helmich, F. Kerschbaum, M. Meyer, D. Naylor, H. Nielsen, G. Olofsson, A. Poglitsch, L. Spinoglio, B. Vandenbussche, K. Isaak and J.R. Goicoechea: The SAFARI imaging spectrometer for the SPICA space observatory. In Proc. of "Space Telescopes and Instrumentation 2012: Optical, Infrared, and Millimeter Wave", Amsterdam, The Netherlands, 2012. (Eds.) M.C. Clampin, G.G. Fazio, H.A. MacEwen, J.M. Oschmann. SPIE Conference Proceedings 8442E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84420R-84420R-15 (2012).

Roques, J.-P., E. Jourdain, L. Bassani, A. Bazzano, R. Belmont, A.J. Bird, E. Caroli, M. Chauvin, D. Clark, N. Gehrels, U. Goerlach, F. Harrisson, P. Laurent, J. Malzac, P. Medina, A. Merloni, S. Paltani, J. Stephen, P. Ubertini and J. Wilms: PheniX: a new vision for the hard X-ray sky. Experimental Astronomy 34, 489-517 (2012).

Sharples, R., R. Bender, A. Agudo Berbel, R. Bennett, N. Bezawada, M. Cirasuolo, P. Clark, G. Davidson, R. Davies, R. Davies, M. Dubbeldam, A. Fairley, G. Finger, R. Genzel, R. Haefner, A. Hess, I. Lewis, D. Montgomery, J. Murray, B. Muschielok, N. Förster-Schreiber, J. Pirard, S. Ramsay, P. Rees, J. Richter, D. Robertson, I. Robson, S.

Rolt, R. Saglia, J. Schlichter, M. Tecza, S. Todd, M. Wegner and E. Wiezorrek: Status of the KMOS multi-object near-infrared integral field spectrograph. In Proc. of "Ground-based and Airborne Instrumentation for Astronomy IV", Amsterdam, The Netherlands, 2012. (Eds.) I.S. McLean, S.K. Ramsay, H. Takami. SPIE Conference Proceedings 8446E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84460K-84460K-9 (2012).

Snigula, J.M., M.E. Cornell, N. Drory, M. Fabricius, M. Landriau, G.J. Hill and K. Gebhardt: Cure-WISE: HETDEX data reduction with Astro-WISE. In Proc. of "Software and Cyberinfrastructure for Astronomy II", Amsterdam, The Netherlands, 2012. (Eds.) N.M. Radziwill, G. Chiozzi. SPIE Conference Proceedings 8451E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 845125-845125-7 (2012).

Soltau, H., R. Hartmann, P. Holl, S. Ihle, P. Lechner, C. Thamm, A. Niculae, I. Ordavo, R. Eckhardt, O. Scharf, F. Schopper and L. Strüder: High Speed High Resolution pnCCDs and SDDs for Micro Fluorescence Analysis. Microscopy and Microanalysis 18, 954-955 (2012).

Straubmeier, C., S. Fischer, C. Araujo-Hauck, M. Wiest, S. Yazici, I. Wank, F. Eisenhauer, G. Perrin, W. Brandner, K. Perraut, A. Amorim, M. Schöller and A. Eckart: The GRAVITY spectrometers: optical design. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84452R-84452R-12 (2012).

Takahashi, T., K. Mitsuda, R. Kelley, …, Y. Tanaka, et al.: The ASTRO-H X-ray Observatory. In Proc. of "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, The Netherlands, 2012. (Eds.) T. Takahashi, S.S. Murray, J.-W.A. den Herder. SPIE Conference Proceedings 8443E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84431Z-84431Z-22 (2012).

Thiele, H., N. Ageorges, D. Kampf, M. Hartl, S. Egner, P. Aniol, M. Ruder, C. Abfalter, U. Hopp, R. Bender, C. Gössl, F. Grupp, F. Lang-Bardl and W. Mitsch: New Fraunhofer Telescope Wendelstein: assembly, installation, and current status. In Proc. of "Ground-based and Airborne Telescopes IV", Amsterdam, The Netherlands, 2012. (Eds.) L.M. Stepp, R. Gilmozzi, H.J. Hall. SPIE Conference Proceedings 8444E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84441B-84441B-11 (2012).

Treis, J., R. Eckhardt, S. Jeschke, L. Mungenast, H. Soltau, K. Heinzinger, K. Hermenau, G. Krenz, P. Lechner, G. Lutz, F. Schopper and L. Strüder: New Results from SDD Detectors with Minimized Input Capacitance. Microscopy and Microanalysis 18, 1224-1225 (2012).

Weidenspointner, G., R. Andritschke, S. Aschauer, F. Erdinger, P. Fischer, K. Hansen, M. Kirchgessner, P. Lechner, G. Lutz, D. Moch, M. Porro, S. Schlee, J. Soldat and L. Strüder: Calibration of the non-linear system response of a prototype set-up of the DSSC detector for the European XFEL. IEEE NSS-MIC conference record, N1-230, (2012).

Winter, A., E. Breunig, R. Capelli, P. Friedrich, V. Burwitz, G. Hartner, B. Menz, T. Schmachtel, G. Derst and M. Neher: Light-weight glass optics for segmented x-ray mirrors. In Proc. of "Modern Technologies in Space- and Ground-based Telescopes and Instrumentation II", Amsterdam, The Netherlands, 2012. (Eds.) R. Navarro, C.R. Cunningham, E. Prieto. SPIE Conference Proceedings 8450E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84502E-84502E-10 (2012).

Yazici, S., M. Wiest, S. Fischer, C. Straubmeier, C. Araujo-Hauck, A. Eckart, I. Wank, F. Eisenhauer, G. Perrin, K. Perraut, W. Brandner, A. Amorim and M. Schöller: A linear displacement mechanism for the GRAVITY spectrometers. In Proc. of "Optical and Infrared Interferometry III", Amsterdam, The Netherlands, 2012. (Eds.) F. Delplanke, J.K. Rajagopal, F. Malbet. SPIE Conference Proceedings 8445E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 84452T-84452T-8 (2012).

Nicht-referierte Publikationen

Batic, M., M. Han, S. Hauf, G. Hoff, C.H. Kim, M. Kuster, M.G. Pia, P. Saracco, H. Seo and G. Weidenspointner: Physics Data Libraries: Content and Algorithms for Improved Monte Carlo Simulation. IEEE NSS-MIC conference record, N14-65, (2012).

Batic, M., M. Han, S. Hauf, G. Hoff, C.H. Kim, M. Kuster, M.G. Pia, P. Saracco, H. Seo, G. Weidenspointner and A. Zoglauer: Paths to Geant4 Evolution: Refactoring, Reengineering and Physics. IEEE NSS-MIC conference record, N7-3, (2012).

Batic, M., S. Granato, G. Hoff, M.G. Pia and G. Weidenspointner: Precision Analysis of Electron Energy Deposition in Detectors Simulated by Geant4. IEEE NSS-MIC conference record, N28-5, (2012).

Batič, M., M. Begalli, M. Han, S. Hauf, G. Hoff, C.H. Kim, M. Kuster, M.G. Pia, P. Saracco, H. Seo, G. Weidenspointner and A. Zoglauer: Refactoring, reengineering and evolution: paths to Geant4 uncertainty quantification and performance improvement. Journal of Physics Conf. Ser. 396, 022038 (2012).

Biffi, V., K. Dolag, H. Böhringer and G. Lemson: Observing Simulated Clusters: A Novel Virtual X-ray Telescope. In Proc. of "Advances in computational astrophysics: methods, tools, and outcome", Cefalu, Italy, 2011. (Eds.) R. Capuzzo-Dolcetta, M. Limongi, A. Tornambe. ASP Conf. Ser. 453, Astronomical Society of the Pacific, San Francisco, CA USA, 345 (2012).

Boller, T.: Soft X-Ray Reflection and Strong and Weak Field Limit Determination in Narrow-Line Seyfert 1 Galaxies. In Proc. of "Advances in Nuclear Physics in Our Time", Goa, India, 2010. (Eds.) X. XXXXX. Exploring Fundamental Issues in Nuclear Physics, 44-52 (2012).

Boxhammer, V., G.E. Morfill, J.R. Jokipii, T. Shimizu, T. Klämpfl, Y.-F. Li, J. Köritzer, J. Schlegel and J.L. Zimmermann: Bactericidal action of cold atmospheric plasma in solution. New Journal of Physics 14, 113042, (2012).

Bristow, P., P. Baksai, I. Balestra, H. Dekker, C.E. Garcia Dabo, P. Hammersley, C. Izzo, S. Mieske, M. Rejkuba, P. Rosati, R. Sanchez-Janssen, F. Selman and B. Wolff: PILMOS: Pre-Image-Less Multi-Object Spectroscopy for VIMOS. The Messenger 148, 13-16 (2012).

Burtscher, L., F. Delplancke, R. Gilmozzi and J. Melnick: Report on the Workshop Ten Years of VLTI: From First Fringes to Core Science. The Messenger 147, 38-40 (2012).

Davies, R., I. Corbett, R. Ekers, R. Green, M. Iye, R. Kraan-Korteweg, M.T. Ruiz, L. Tacconi, M. Tarenghi, C. Wilson and G. Zhao: Executive Committee Working Group Future Large Scale Facilities. Transactions of the International Astronomical Union 28, 417-417 (2012).

Davies, R., L. Burtscher, K. Dodds-Eden and G. Orban de Xivry: Do stellar winds play a decisive role in feeding AGN?. Journal of Physics Conf. Ser. 372, 012046 (2012).

Davies, R.L., J.S. Gallagher, F. Combes, S.J. Courteau, A. Dekel, M. Franx, C.J. Jog, S. Jogee, N. Nakai, M. Rubio, L.J. Tacconi and E. Terlevich: Commission 28: Galaxies. Transactions of the International Astronomical Union 28, 255-259 (2012).

de Jong, J.A., E. Wieprecht, J. Schreiber, R. Huygen, M. Wetzstein, P. Royer, B. Vandenbussche, K. Exter, R. Vavrek, B. Gonzalez, J. Diaz, J. Bakker and E. Sturm: The Herschel PACS Pipeline Extensions: Making Tasks and Scripts Suitable for Interactive and Automatic Processing. In Proc. of "Astronomical Data Analysis Software and Systems XXI", Paris, France, 2011. (Eds.) P. Ballester. ASP Conf. Ser. 461, Astronomical Society of the Pacific, San Francisco, CA USA, 631 (2012).

Desai, S., R. Armstrong, M.L.N. Ashby, B. Bayliss, G. Bazin, B. Benson, E. Bertin, L. Bleem, M. Brodwin, A. Clochiatti, R. Foley, M. Gladders, A.H. Gonzalez, F.W. High, J. Liu, J. Mohr, A. Rest, J. Ruel, A. Saro, J. Song, B. Stalder, A. Stanford, C. Stubbs and A. Zenteno: Optical followup of galaxy clusters detected by the South Pole Telescope. Journal of Physics Conf. Ser. 375, 032011 (2012).

Elliott, J., J. Greiner, S. Khochfar, P. Schady, J.L. Johnson and A. Rau: The long gamma-ray burst rate and the correlation with host galaxy properties. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 86 (2012).

Ermolaeva, S., O. Petrov, N. Zigangirova, M. Vasiliev, E. Sysolyatina, S. Antipov, M. Alyapyshev, N. Kolkova, A. Mukhachev, B. Naroditsky, T. Shimizu, A. Grigoriev, G. Morfill, V. Fortov and A. Gintsburg: Low Temperature Atmospheric Argon Plasma: Diagnostics and Medical Applications. In Proc. of "NATO Advanced Research Workshop on Plasma for Bio-Decontamination, Medicine, and Food Security", Demanovska Dolina, Slovakia, 2011. (Eds.) Z. Machala, K. Hensel, Y. Akishev. Plasma for Bio-Decontamination, Medicine and Food Security book, -none-, 163 (2012).

Fierlinger, K.M., A. Burkert, R. Diehl, C. Dobbs, D.H. Hartmann, M. Krause, E. Ntormousi and R. Voss: Molecular Cloud Disruption and Chemical Enrichment of the ISM Caused by Massive Star Feedback. In Proc. of "Advances in computational astrophysics: methods, tools, and outcome", Cefalu, Italy, 2011. (Eds.) R. Capuzzo-Dolcetta, M. Limongi, A. Tornambe. ASP Conf. Ser. 453, Astronomical Society of the Pacific, San Francisco, CA USA, 25 (2012).

Foley, S.: Energy-dependent Spectral Lags of Fermi-GBM GRBs. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 18 (2012).

Greiner, J.: Preface. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 1 (2012).

Gruber, D. and Fermi/GBM Collaboration: Rest-frame properties of GRBs observed by Fermi/GBM. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany,

2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 7 (2012).

Gruber, D. and Fermi/GBM Collaboration: Untriggered Swift-GRBs in Fermi/GBM data. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 36 (2012).

Haerendel, G.: Auroral Generators: A Survey. In Proc. of "Meeting of American Geophysical Union", San Francisco,USA, 2012. (Eds.) A. Keiling, E. Donovan, F. Bagenal, T. Karlsson. Washington DC American Geophysical Union Geophysical Monograph Series 197, American Geophysical Union, 347-354 (2012).

Hatzidimitriou, D., R. Wyse, O. Gerhard, G. Carraro, B.G. Elmegreen and B. Nordström: Division VII: the Galactic System. Transactions of the International Astronomical Union 28, 243-245 (2012).

Henze, M., W. Pietsch, F. Haberl, M. Hernanz, G. Sala, D. Hatzidimitriou, M. Della Valle, A. Rau, D.H. Hartmann, V. Burwitz and J. Greiner: X-ray monitoring of Classical Novae in the central region of M 31. Mem. Soc. Astron. Ital. 83, 798 (2012).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, R. Starr, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'shin, D. Frederiks, D. Svinkin, D.M. Smith, W. Hajdas, A. von Kienlin, X. Zhang, A. Rau and K. Yamaoka: The Interplanetary Network Database. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 117 (2012).

Huygen, R., B. Vandenbussche, W. De Meester, J. De Jong, E. Wieprecht and M. Wetzstein: Providing Legacy Access to Astronomical Data Analysis Software. In Proc. of "Astronomical Data Analysis Software and Systems XXI", Paris, France, 2011. (Eds.) P. Ballester. ASP Conf. Ser. 461, Astronomical Society of the Pacific, San Francisco, CA USA, 639 (2012).

Kasuga, T., F. Usui, S. Hasegawa, D. Kuroda, T. Ootsubo, T.G. Müller and M. Ishiguro: Two Faces of Cybele Asteroid Group Revealed by AKARI/AcuA. Lunar Planetary Institute Contrib. 1667, 6097 (2012).

Kidger, M.R., T. Müller, B. Altieri, A. Abreu, D. Bockelee-Morvan, D. Coia, J. Crovisier, B. González, A. Llorente, R. Lorente, L. Lucas, J. Riedinger, F. Rodríguez and M. Sierra: Far Infrared Observation of Comet C/1995 O1 (Hale-Bopp) with the Herschel Space Observatory at r=29.95AU. Lunar Planetary Institute Contrib. 1667, 6321 (2012).

Kim, J.W. and G. Lemson: GOM.FITS: Modeling and Storing FITS Metadata in a Relational Database. In Proc. of "Astronomical Data Analysis Software and Systems XXI", Paris, France, 2011. (Eds.) P. Ballester. ASP Conf. Ser. 461, Astronomical Society of the Pacific, San Francisco, CA USA, 371 (2012).

Kiss, C., E. Vilenius, T.G. Müller, A. Pál, M. Rengel, M. Mommert, N. Szalai, P. Santos-Sanz, E. Lellouch and J. Stansberry: Thermal Emission of the Eris - Dysnomia System as Observed by Herschel/PACS. Lunar Planetary Institute Contrib. 1667, 6357 (2012).

Kueppers, M., L. O'Rourke, D. Bockelee-Morvan, J. Crovisier, B. Carry, D. Teyssier, R. Vavrek, T.G. Mueller, M.A. Barucci, B.G. Gonzalez-Garcia and Mach 11 Team: Search for Water Vapour Emission from Dawn Target (1) Ceres with Herschel. Lunar Planetary Institute Contrib. 1667, 6377 (2012).

Lakić, B., M. Arik, S. Aune, ...,H. Bräuninger, et al.: Status and perspectives of the CAST experiment. Journal of Physics Conf. Ser. 375, 022001 (2012).

Landriau, M. and for the HETDEX collaboration: The Hobby-Eberly Telescope Dark Energy Experiment. In: Proceedings of the XLVIIth Rencontres de Moriond: Cosmology. (Eds.) E. Auger, J. Dumarchez, J. Tran Thanh Van. Vol., ARISF, 169-173 (2012).

Li, J., S. Zhang, Y.P. Chen, M. Tuerler, J. Chenevez, E. Bozzo, C. Ferrigno, A. Tramacere, I. Caballero, J. Rodriguez, M. Cadolle-Bel, C. Sanchez-Fernandez, M. del Santo, A. Tarana, M. Fiocchi, P.R. den Hartog, I. Kreykenbohm, M. Köhnel, A. Paizis, G. Puehlhofer, K. Watanabe and G. Weidenspointner: Swift/XRT follow-up observation of IGR J18179-1621. The Astronomer's Telegram, 3950, (2012).

Lisse, C.M., D.J. Christian, S.J. Wolk, K. Dennerl, D. Bodewits, J.-Y. Li, M.R. Combi, S.T. Lepri, T.H. Zurbuchen, N. Dello-Russo and M.M. Knight: Chandra ACIS-S X-Ray Imaging Spectroscopy of EPOXI Target Comet 103P/Hartley 2. Lunar Planetary Institute Contrib. 1667, 6252 (2012).

Martinez-Valpuesta, I. and O. Gerhard: Unifying the planar bar and the boxy bulge of the Milky Way. In: Proceedings of Assembling the Puzzle of the Milky Way, Le Grand-Bornand, France. (Eds.) C. Reylé, A. Robin, M. Schultheis. EPJ Web of Conferences Vol. 19, id.06010 (2012).

McDermid, R.M., K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, M. Cappellari, A.F. Crocker, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: The star-formation histories of early-type galaxies from ATLAS^{3D}. In Proc. of "IAUS 284: The spectral energy distribution of galaxies (SED2011)", Preston, UK, 2011. (Eds.) R.J. Tuffs Max, C.C. Popescu. Proc. IAU 284, Cambridge University Press, Cambridge, UK, 244-247 (2012).

Merloni, A., P. Predehl, W. Becker, H. Böhringer, T. Boller, H. Brunner, M. Brusa, K. Dennerl, M. Freyberg, P. Friedrich, A. Georgakakis, F. Haberl, G. Hasinger, N. Meidinger, J. Mohr, K. Nandra, A. Rau, T.H. Reiprich, J. Robrade, M. Salvato, A. Santangelo, M. Sasaki, A. Schwope, J. Wilms and the German eROSITA Consortium: eROSITA Science Book: Mapping the Structure of the Energetic Universe. arXiv, URL: http://arxiv.org/abs/1209.3114, (2012).

Meusinger, H., M. Henze, K. Birkle, W. Pietsch, B. Williams, D. Hatzidimitriou, R. Nesci, S. Ertel, A. Hinze, T. Bertold and B. Kaminsky: A unique UV flare in the optical light curve of the quasar J004457.9+412344. In Proc. of "Tidal Disruption Events and AGN Outbursts", Madrid,

Spain, 2012. (Eds.) R. Saxton, S. Komossa. EPJ Web of Conferences 3908001M, EDP Sciences, Les Ulis, FRance, 8001 (2012).

Miloch, W.J., V.V. Yaroshenko, S.V. Vladimirov, H.L. Pécseli and J. Trulsen: Spacecraft charging in flowing plasmas; numerical simulations. Journal of Physics Conf. Ser. 370, 012004 (2012).

Miniutti, G., W.N. Brandt, D.P. Schneider, A.C. Fabian, L.C. Gallo and T. Boller: Exceptional AGN long-timescale X-ray variability: The case of PHL 1092. In Proc. of "Tidal Disruption Events and AGN Outbursts", Madrid, Spain, 2012. (Eds.) R. Saxton, S. Komossa. EPJ Web of Conferences 3906002M, EDP Sciences, Les Ulis, FRance, 6002 (2012).

Mitra, A., G.E. Morfill, T Shimizu, B. Steffes, G. Isbary, H.-U. Schmidt, Y.-F. Li and J.L.Zimmermann: Applications in plasma medicine - a SWOT approach. Composite Interfaces 19, 231-238 (2012).

Miyata, T., T.G. Mueller, S. Hasegawa, S. Sako, T. Kamizuka, T. Nakamura, K. Asano, M. Uchiyama, M. Konishi, M. Yoneda, T. Ootsubo, F. Usui, B. Altieri, M. Kidger, Y. Yoshii, M. Doi, K. Kohno, K. Kawara, M. Tanaka, K. Motohara, T. Tanabe, T. Minezaki, T. Morokuma, Y. Tamura, T. Aoki, T. Soyano, K. Tarusawa, S. Koshida, H. Takahashi and N. Kato: Thermal Infrared Observations of an Asteroid 2005YU55 During the Closet Approach. Lunar Planetary Institute Contrib. 1667, 6260 (2012).

Morfill, G.E. and J.L. Zimmermann: Plasma Health Care - Old Problems, New Solutions. D 52, 655-663 (2012).

Morganti, L. and O. Gerhard: NMAGIC Made-to-Measure Particle Models of Galaxies. In Proc. of "Advances in computational astrophysics: methods, tools, and outcome", Cefalu, Italy, 2011. (Eds.) R. Capuzzo-Dolcetta, M. Limongi, A. Tornambe. ASP Conf. Ser. 453, Astronomical Society of the Pacific, San Francisco, CA USA, 147 (2012).

Müller, T.G., E. Vilenius, P. Santos-Sanz, M. Mommert, C. Kiss, A. Pal and TNOS-are-Cool Team: TNOs are Cool: A Survey of the Trans-Neptunian Region — Herschel Observations and Thermal Modeling of Large Samples of Kuiper Belt Objects. Lunar Planetary Institute Contrib. 1667, 6316 (2012).

Müller, T.G., L. O'Rourke, A.M. Barucci, A. Pal, C. Kiss, P. Zeidler, B. Altieri, B.M. González-García and M. Küppers: Thermal, Shape and Surface Properties of OSIRIS-REx Target Asteroid (10955) 1999 RQ36 — Derived from Herschel, ESO-VISIR and Spitzer Observations. Lunar Planetary Institute Contrib. 1667, 6312 (2012).

Nardini, M., J. Greiner, R. Filgas, J. Elliott, F. Olivares E., A. Rau, P. Schady, V. Sudilovsky, S. Klose, D.A. Kann, A. Nicuesa Guilbenzu, A. Rossi, T. Krühler, P. Afonso and A. Updike: Unveiling long lasting central engine activity with Optical-NIR afterglows. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 104 (2012).

Nikolov, N., J. Koppenhoefer, M. Lendl, T. Henning and J. Greiner: Multiband Transit Light Curve Modeling of WASP-4. In Proc. of "IAUS 282: From Interacting Binaries to Exoplanets: Essential Modeling Tools", Tartranska Lomnica, Slovakia, 2011. (Eds.) M. Richards, I. Hubeny. Proc. IAU 282, Cambridge University Press, Cambridge, UK, 141-142 (2012).

O'Rourke, L., M. Küppers, L. Jorda, D. Bockelee-Morvan, O. Groussin, T. Müller, C. Kiss, J. Crovisier, B. Altieri, B. Gónzalez-García, K. Altwegg and R. Schulz: Herschel Observations of the Rosetta Target 67P/Churyumov-Gerasimenko and Deep Impact/Stardust/Stardust NEXt Target 9P/Tempel-1. Lunar Planetary Institute Contrib. 1667, 6292 (2012).

O'Rourke, L., T. Müller, B. Altieri, B. Gónzalez-García, C. Kiss, A. Pal, A. Barucci, M. Yoshikawa, E. Dotto, M. Küppers and M. Sanchez Portal: Herschel Observations of the Hayabusa-2 Asteroid 162173 (1999 JU3). Lunar Planetary Institute Contrib. 1667, 6299 (2012).

Oates, S., M.J. Page, M. De Pasquale and P. Schady: An intrinsic correlation between GRB optical/UV afterglow brightness and decay rate. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 60 (2012).

Okada, T., T. Fukuhara, S. Tanaka, M. Taguchi, R. Nakamura, T. Sekiguchi, S. Hasegawa, Y. Ogawa, K. Kitazato, T. Matsunaga, T. Imamura, T. Wada, T. Arai, Y. Yamamoto, R. Takaki, S. Tachikawa, J. Helbert and T.G. Mueller: Thermal Infrared Imager TIR on Hayabusa 2 to Investigate Physical Properties of C-Class Near-Earth Asteroid 1999JU3. Proc. Lunar and Planetary Institute Science Conferences 43, Lunar and Planetary Institute, 1498 (2012).

Okada, T., T. Fukuhara, S. Tanaka, M. Taguchi, R. Nakamura, T. Sekiguchi, S. Hasegawa, Y. Ogawa, K. Kitazato, T. Matsunaga, T. Imamura, T. Wada, T. Arai, Y. Yamamoto, R. Takaki, S. Tachikawa, J. Helbert, T. Mueller and A. Hagermann: Thermal-Infrared Imager TIR on Hayabsua-2: Thermal Properties of C-Class Asteroid 1999JU3. Lunar Planetary Institute Contrib. 1667, 6136 (2012).

Okamura, N., S. Hasegawa, T. Hiroi, T. Ootsubo, T.G. Müller, F. Usui and S. Sugita: 3-μm Spectroscopic Obersvations of Asteroid 21 Lutetia Using Akari Satellite. In Proc. of "43st", Lunar. (Eds.) Proc. Lunar and Planetary Institute Science Conferences 43, Lunar and Planetary Institute, 1918 (2012).

Olivares E., F., J. Greiner, P. Schady, A. Rau, S. Klose, T. Krühler, et al.: The Fast Evolution of SN 2010bh associated with GRB 100316D. In Proc. of "IAUS 279: Death of Massive Stars: Supernovae and Gamma-Ray Bursts", Nikko, Japan, 2012. (Eds.) P. Roming, N. Kawai, E. Pian. Proc. IAU 279, Cambridge University Press, Cambridge, UK, 375-376 (2012).

Oliveira, I., K.M. Pontoppidan, E.F. van Dishoeck and B. Merin: Tracing the Evolution of Dust in Protoplanetary Disks — The First Steps of Planet Formation. Lunar Planetary Institute Contrib. 1667, 6006 (2012).

Osipov, T., D. Rolles, C. Bostedt, J.-C. Castagna, R. Hartmann, J.D. Bozek, I. Schlichting, L. Strüder, J. Ullrich and N. Berrah: Next Generation Endstation for Concur-

rent Measurements of Charged Products and Photons in LCLS FEL Experiments. Journal of Physics Conf. Ser. 388, 142025 (2012).

Pal, A., C. Kiss, T.G. Muller, E. Vilenius, M. Rengel, M. Mommert, P. Santos-Sanz, E. Lellouch and J. Stansberry: Surface Properties of Extreme TNOs Based on Herschel/PACS measurements: The Case of Sedna and 2010 EK139. Lunar Planetary Institute Contrib. 1667, 6368 (2012).

Ridgway, S.T., G. van Belle, D. Mourard, G. Perrin, G. Duvert, R. Genzel, C. Haniff, C. Hummel, P. Lawson, J. Monnier, P. Tuthill and F. Vakili: Commission 54: Optical/infrared Interferometry. Transactions of the International Astronomical Union 28, 292-296 (2012).

Rodíguez-Ardila, A., R. Riffel, X. Mazzalay and J.G. Portilla: High-ionization Gas in Active Galactic Nuclei: Line Profiles and Physical Conditions. In Proc. of "AGN Winds in Charlston", Charlston, USA, 2011. (Eds.) G. Chartas. ASP Conf. Ser. 460, Astronomical Society of the Pacific, San Francisco, CA USA, 144 (2012).

Rossi, A., S. Klose, D.A. Kann, A. Nicuesa Guelbenzu, P. Ferrero, J. Greiner, P.M.J. Afonso, C. Clemens, R. Filgas, M. Nardini, F. Olivares E., A. Rau, S. Savaglio, P. Schady, D.H. Hartmann, A.C. Updike, T. Krülher, E. Palazzi, L. Amati, N. Masetti, L.K. Hunt, A.J. Castro-Tirado, A. de Ugarte Postigo, A. Küpcü Yoldaş, A. Yoldaş and E. Pian: The host galaxies of dark bursts. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 143 (2012).

Rudek, B., D. Rolles, A. Rudenko, S. Epp, L. Foucar, B. Erk, R. Hartmann, N. Kimmel, P. Holl, C. Reich, L. Strüder, H. Hirsemann, K. Ueda, M. Simon, N. Berrah, C. Bostedt, J. Bozek, S. Schorb, M. Messerschmidt, M. Adolph, T. Gorkhover, D. Rupp, T. Möller, J. Schulz, L. Gumprecht, A. Aquila, F. Filsinger, K.-U. Kühnel and J. Ullrich: Multiphoton Ionization of Xenon at the LCLS Free-Electron Laser. Journal of Physics Conf. Ser. 388, 022022 (2012).

Saha, K., I. Martinez-Valpuesta and O. Gerhard: Dynamical evolution of a bulge in an N-body model of the Milky Way. In Proc. of "Assembling the Puzzle of the Milky Way", Le Grand-Bornand, France, 2011. (Eds.) C. Reyle, A. Robin, M. Schultheis. EPJ Web of Conferences 1906008S, EDP Sciences, Les Ulis, France, 6008 (2012).

Savaglio, S.: Unveiling the fundamental properties of Gamma-Ray Burst host galaxies. In Proc. of "IAUS 279: Death of Massive Stars: Supernovae and Gamma-Ray Bursts", Nikko, Japan, 2012. (Eds.) P. Roming, N. Kawai, E. Pian. Proc. IAU 279, Cambridge University Press, Cambridge, UK, 212-215 (2012).

Schady, P., T. Dwelly, M.J. Page, J. Greiner, T. Krühler, S. Savaglio, S. Oates and A. Rau: Dust and metal column densities in GRB host galaxies. In Proc. of "IAUS 279: Death of Massive Stars: Supernovae and Gamma-Ray Bursts", Nikko, Japan, 2012. (Eds.) P. Roming, N. Kawai, E. Pian. Proc. IAU 279, Cambridge University Press, Cambridge, UK, 199-206 (2012).

Schady, P.: Gamma-ray burst afterglows as probes of the ISM. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 62 (2012).

Schwan, D., R. Kneissl, P. Ade, K. Basu, A. Bender, F. Bertoldi, H. Böhringer, H.-M. Cho, G. Chon, J. Clarke, M. Dobbs, D. Ferrusca, D. Flanigan, N. Halverson, W. Holzapfel, C. Horellou, D. Johansson, B. Johnson, J. Kennedy, Z. Kermish, M. Klein, T. Lanting, A. Lee, M. Lueker, J. Mehl, K. Menten, D. Muders, F. Pacaud, T. Plagge, C. Reichardt, P. Richards, R. Schaaf, P. Schilke, M. Sommer, H. Spieler, C. Tucker, A. Weiss, B. Westbrook and O. Zahn: APEX-SZ: The Atacama Pathfinder EXperiment Sunyaev-Zel'dovich Instrument. The Messenger 147, 7-12 (2012).

Sekiguchi, T., T. Ootsubo, S. Hasegawa, F. Usui, D.P. Cruikshank, C.M. Dalle Ore and T.G. Müller: AKARI Observations of Minor Bodies in the Outer Solar System. Lunar Planetary Institute Contrib. 1667, 6477 (2012).

Tristram, K.R.W., M. Schartmann, L. Burtscher, K. Meisenheimer, W. Jaffe, M. Kishimoto, S.F. Hönig and G. Weigelt: The complexity of parsec-scaled dusty tori in AGN. Journal of Physics Conf. Ser. 372, 012035 (2012).

Trumper, J.: Welcome Remarks. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 2 (2012).

Usui, F., D. Kuroda, T.G. Müller, S. Hasegawa, M. Ishiguro, T. Ootsubo and T. Kasuga: AKARI/IRC Mid-Infrared Asteroid Survey. Lunar Planetary Institute Contrib. 1667, 6119 (2012).

Vennik, J. and U. Hopp: Dwarf Galaxies in Nearby Groups of Galaxies: Photometric Properties. In Proc. of "JENAM Symposium 2010", Lisbon, Portugal, 2010. (Eds.) P. Papaderos, S. Recchi, G. Hensler. Dwarf Galaxies: Keys to Galaxy Formation and Evolution book, Springer, Berlin, Germany, 295 (2012).

Wahlgren, G.M., E.F. van Dishoeck, S.R. Federman, P. Beiersdorfer, M.S. Dimitrijevic, A. Jorissen, L.I. Mashonkina, H. Nilsson, F. Salama and J. Tennyson: Commission 14: Atomic and Molecular Data. Transactions of the International Astronomical Union 28, 339-340 (2012).

Wyse, R., B. Nordström, O. Gerhard, J. Bland-Hawthorn, S. Feltzing, B. Fuchs and D. Minniti: Commission 33: Structure and Dynamics of the Galactic System. Transactions of the International Astronomical Union 28, 246-248 (2012).

van Dishoeck, E.F., E. Herbst, Y. Aikawa, J.H. Black, G.A. Blake, P. Caselli, J. Cernicharo, G. Garay, M. Guelin, U.G. Jørgensen, J.P. Maier, K.M. Menten, T.J. Millar, S. Kwok, F. Salama, I. Sims and A. Sternberg: Division VI / Commission 34 / Working Group Astrochemistry. Transactions of the International Astronomical Union 28, 236-239 (2012).

von Kienlin, A.: The Fermi GBM Gamma-Ray Burst Catalog: Years Three & Four. In Proc. of "The Fermi/Swift GRB Conference 2012", Munich, Germany, 2012. (Eds.) J. Greiner, A. Rau. Proc. of Science (GRB 2012), 31 (2012).

Telegramme / Zirkulare / Datenkataloge

Abbott, T., F. Abdalla, I. Achitouv, ..., R. Saglia, et al.: First SN Discoveries from the Dark Energy Survey. The Astronomer's Telegram 4668, 1 (2012).

Alexander, F. and T. Preibisch: X-ray data for IC 348 young stars (Alexander+, 2012). VODC 353, 99064 (2012).

Brightman, M. and K. Nandra: Multi-waveband analysis of 12um galaxies (Brightman+, 2011). VODC 741, 43084 (2012).

Cappellari, M., E. Emsellem, D. Krajnovic, R.M. McDermid, P. Serra, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, R.L. Davies, T.A. Davis, P.T. de Zeeuw, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, A.-M. Weijmans and L.M. Young: ATLAS3D project. VII. (Cappellari+, 2011). VODC 741, 61680 (2012).

Caux, E., C. Kahane, A. Castets, A. Coutens, C. Ceccarelli, A. Bacmann, S. Bisschop, S. Bottinelli, C. Comito, F.P. Helmich, B. Le floch, B. Parise, P. Schilke, A.G.G.M. Tielens, E. van Dishoeck, C. Vastel, V. Wakelam and A. Walters: TIMASSS. I. (Caux+, 2011). VODC 353, 29023 (2012).

Civano, F., M. Elvis, M. Brusa, A. Comastri, M. Salvato, G. Zamorani, T. Aldcroft, A. Bongiorno, P. Capak, N. Cappelluti, M. Cisternas, F. Fiore, A. Fruscione, H. Hao, J. Kartaltepe, A. Koekemoer, R. Gilli, C.D. Impey, G. Lanzuisi, E. Lusso, V. Mainieri, T. Miyaji, S. Lilly, D. Masters, S. Puccetti, K. Schawinski, N.Z. Scoville, J. Silverman, J. Trump, M. Urry, C. Vignali and N.J. Wright: The Chandra COSMOS survey. III. (Civano+, 2012). VODC 220, 10030 (2012).

Cortesi, A., M. Arnaboldi, L. Coccato, M.R. Merrifield, O. Gerhard, S. Bamford, A. Romanowsky, N.R. Napolitano, N.G. Douglas, K. Kuijken, M. Capaccioli, K.C. Freeman, A.L. Chies-Santos, Pota, V.: Planetary Nebula Spectrograph survey (Cortesi+, 2013). VODC 354, 99115 (2012).

de Pasquale, M., D. Gruber, J.M. Burgess, J. McEnery, S.T. Holland, S. Razzaque and J.L. Racusin: GRB 120624B: discussion of Fermi and Swift measurements and future Swift observations. GCN Circ. 13389, 1 (2012).

Elliott, J., J. Greiner, A. Nicuesa Guelbenzu, S. Schmidl and S. Klose: GRB 120709A: optical afterglow limits. GCN Circ. 13426, 1 (2012).

Elliott, J., J. Greiner, E.F. Olivares, A. Rau and T. Kruehler: GRB 120302A: GROND detection of an afterglow candidate. GCN Circ. 13003, 1 (2012).

Elliott, J., P. Schady, D.A. Kann and J. Greiner: GRB 120712A: GROND detection of the Optical/NIR afterglow candidate and photo-z. GCN Circ. 13457, 1 (2012).

Elliott, J., S. Klose and J. Greiner: GRB 120224A: GROND detection of the afterglow candidate. GCN Circ. 12988, 1 (2012).

Elliott, J., S. Klose and J. Greiner: GRB 120711A: GROND photometric redshift. GCN Circ. 13438, 1 (2012).

Elliott, J., S. Schmidl, S. Klose and J. Greiner: GRB 120701A: GROND detection of the afterglow. GCN Circ. 13409, 1 (2012).

Elliott, J., V. Sudilovsky and J. Greiner: GRB 120211A: GROND upper limits. GCN Circ. 12931, 1 (2012).

Emsellem, E., M. Cappellari, D. Krajnovic, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, R.L. Davies, T.A. Davis, P.T. de Zeeuw, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, G. van de Ven, A.-M. Weijmans and L.M. Young: ATLAS3D project. III. (Emsellem+, 2011). VODC 741, 40888 (2012).

Finoguenov, A., M.G. Watson, M. Tanaka, C. Simpson, M. Cirasuolo, J.S. Dunlop, J.A. Peacock, D. Farrah, M. Akiyama, Y. Ueda, V. Smolcic, G. Stewart, S. Rawlings, C. van Breukelen, O. Almaini, L. Clewley, D.G. Bonfield, M.J. Jarvis, J.M. Barr, S. Foucaud, R.J. McLure, K. Sekiguchi and E. Egami: SXDF X-ray groups and galaxy clusters (Finoguenov+, 2010). VODC 740, 32063 (2012).

Foley, S., A. Collazzi and J.M. Burgess: Fermi GBM triggers 120305.186, 120305.802 and 120306.823 are not GRBs. GCN Circ. 13061, 1 (2012).

Foley, S., C. Kouveliotou, A.C. Collazzi, Y. Kaneko and D. Palmer: Fermi/GBM detection of an SGR-like burst. GCN Circ. 13600, 1 (2012).

Foley, S., C. Kouveliotou, Y. Kaneko and A. Collazzi: Fermi/GBM detection of a burst from the magnetar 1E 2259+5. GCN Circ. 13280, 1 (2012).

Foley, S.: GRB 120328B: Fermi GBM detection. GCN Circ. 13163, 1 (2012).

Foley, S.: GRB 120728B: Fermi GBM detection. GCN Circ. 13553, 1 (2012).

Foley, S.: GRB 121123A: Fermi GBM observation. GCN Circ. 13985, 1 (2012).

Fotopoulou, S., M. Salvato, G. Hasinger, E. Rovilos, M. Brusa, E. Egami, D. Lutz, V. Burwitz, J.P. Henry, J.H. Huang, D. Rigopoulou and M. Vaccari: Photometry catalogs for the Lockman Hole (Fotopoulou+, 2012). VODC 219, 80001 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of short hard GRB 121011B. GCN Circ. 13863, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K.

Makishima: IPN triangulation of GRB 120816B (short/exceptionally intense). GCN Circ. 13675, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 121127A (short/hard). GCN Circ. 14021, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of short GRB 120603A. GCN Circ. 13353, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm and D. Palmer: IPN triangulation of GRB 120624A (short/intense). GCN Circ. 13376, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm and D. Palmer: Improved IPN error box for short hard GRB 120811B. GCN Circ. 13627, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 120817B (short/very intense). GCN Circ. 13670, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of GRB 120519A (short/hard). GCN Circ. 13313, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, A. von Kienlin, X. Zhang, V. Savchenko and A. Rau: IPN triangulation of GRB 120323A (short/very intense). GCN Circ. 13102, 1 (2012).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm and D. Palmer: IPN triangulation of short hard GRB 120811B. GCN Circ. 13620, 1 (2012).

Greiner, J., A. Belloche, T. Csengeri, F. Wyrowski, F. Schuller, F. Montenegro, V. Sudilovsky, J. Elliott, D.A. Kann, A. de Ugarte Postigo and T. Kruehler: GRB 121027A: submm upper limit. GCN Circ. 13937, 1 (2012).

Greiner, J., A. Rau and F. Olivares E.: GROND upper limits for MASTER OT103630.69-003523.8. The Astronomer's Telegram 3848, 1 (2012).

Greiner, J., A. Rau and P. Schady: Follow-up observations of MASTER J113122.95-075714.5. The Astronomer's Telegram 3906, 1 (2012).

Greiner, J., A. Rau and P. Schady: MAXI J1305-704: bright candidate counterpart from Swift and GROND. The Astronomer's Telegram 4030, 1 (2012).

Greiner, J., A. Rau, P. Schady, I. Saviane and B. Cenko: VLT/FORS2 redshift of GRB120716A. GCN Circ. 13493, 1 (2012).

Gruber, D. and A. Goldstein: GRB 120716A: Fermi GBM observation. GCN Circ. 13498, 1 (2012).

Gruber, D. and V. Connaughton: Fermi GBM trigger 120123.169 is not a GRB. GCN Circ. 12896, 1 (2012).

Gruber, D. and V. Connaughton: GRB 120323A: Fermi GBM detection. GCN Circ. 13099, 1 (2012).

Gruber, D. and V. Pelassa: GRB 120711A: Fermi GBM observation. GCN Circ. 13437, 1 (2012).

Gruber, D., J.M. Burgess and V. Connaughton: GRB 120624B: Fermi GBM detection. GCN Circ. 13377, 1 (2012).

Gruber, D., W. Paciesas, V. Pelassa and V. Chaplin: GRB 120911B: Fermi GBM observation. GCN Circ. 13757, 1 (2012).

Gruber, D.: Fermi GBM trigger 120602.539 is not a GRB. GCN Circ. 13352, 1 (2012).

Gruber, D.: Fermi GBM triggers 120309.265 and 120309.402 are not GRBs. GCN Circ. 13062, 1 (2012).

Gruber, D.: GRB 120119A: Fermi GBM observation. GCN Circ. 12874, 1 (2012).

Gruber, D.: GRB 120521B: Fermi GBM observation. GCN Circ. 13339, 1 (2012).

Gruber, D.: GRB 120624B: Fermi GBM fluence and peak photon flux correction. GCN Circ. 13383, 1 (2012).

Gruber, D.: GRB 120712A: Fermi GBM observation. GCN Circ. 13469, 1 (2012).

Gruber, D.: GRB 120911A: Fermi GBM observation. GCN Circ. 13754, 1 (2012).

Guelbenzu, A.N., S. Klose and J. Greiner: GRB 120714A: GROND upper limits. GCN Circ. 13479, 1 (2012).

Guelbenzu, A.N., S. Klose and J. Greiner: GRB 120714B: GROND confirmation of fading afterglow. GCN Circ. 13478, 1 (2012).

Haberl, F., R. Sturm, J. Ballet, D.J. Bomans, D.A.H. Buckley, M.J. Coe, R. Corbet, M. Ehle, M.D. Filipovic, M. Gilfanov, D. Hatzidimitriou, N. La Palombara, S. Mereghetti, W. Pietsch, S. Snowden and A. Tiengo: SMC XMM-Newton images (Haberl+, 2012). VODC 354, 59128 (2012).

Haberl, F., R. Sturm, M. Tsujimoto, Q. Wada, K. Ebisawa, E. Miller, M.J. Coe, H. Klus and A.P. Beardmore: SXP523 = Suzaku J0102-7204 = 2XMM J010247.4-720449, a Be/X-ray binary pulsar in the SMC. The Astronomer's Telegram 4648, 1 (2012).

Hanlon, L., A. Martin-Carrillo, X.-L. Zhang and A. von Kienlin: GRB 120711A: INTEGRAL/SPI observations. GCN Circ. 13468, 1 (2012).

Henze, M., W. Pietsch and F. Haberl: Swift XRT observations of the M 31 ULX XMMU J004243.6+412519. The Astronomer's Telegram 3959, 1 (2012).

Henze, M., W. Pietsch and F. Haberl: XMMU J004243.6+412519 becomes the second ultraluminous X-ray source in M 31. The Astronomer's Telegram 3921, 1 (2012).

Henze, M., W. Pietsch, F. Haberl and XMM-Newton/Chandra M31 Nova Monitoring Collaboration: XMMU J004243.6+412519 - a new X-ray transient in M 31 seen with XMM-Newton. The Astronomer's Telegram 3890, 1 (2012).

Henze, M., W. Pietsch, F. Haberl and J. Greiner: Swift XRT finds the M 31 ULX XMMU J004243.6+412519 still active after Sun block. The Astronomer's Telegram 4125, 1 (2012).

Henze, M., W. Pietsch, F. Haberl and M. Middleton: Nova M31N 2012-05c found as a supersoft X-ray source with XMM-Newton. The Astronomer's Telegram 4511, 1 (2012).

Henze, M., W. Pietsch, V. Burwitz, J. Rodriguez, J. Bochinski, R. Busuttil, C.A. Haswell, S. Holmes and U. Kolb: New disk nova candidate in M 31. The Astronomer's Telegram 3932, 1 (2012).

Herpin, F., L. Chavarria, F. van der Tak, F. Wyrowski, E.F. van Dishoeck, T. Jacq, J. Braine, A. Baudry, S. Bontemps and L. Kristensen: Herschel-HIFI water spectra of W43-MM1 (Herpin+, 2012). VODC 354, 29076 (2012).

Hofmann, F., M. Henze, J. Greiner and W. Pietsch: Swift UV light curves of recent M 31 novae. The Astronomer's Telegram 4281, 1 (2012).

Hofmann, F., M. Henze, W. Pietsch, F. Haberl and J. Greiner: CXOU J004233.2+411742: A new X-ray transient in the M 31 globular cluster Bol 112. The Astronomer's Telegram 4164, 1 (2012).

Hofmann, F., W. Pietsch, J. Greiner, F. Haberl and M. Henze: New outburst of X-ray transient in M 31 GC Bol 128. The Astronomer's Telegram 4359, 1 (2012).

Hofmann, F., W. Pietsch, R. Sturm, J. Greiner, F. Haberl and M. Henze: Detection of new X-ray transient in M 31. The Astronomer's Telegram 4375, 1 (2012).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 120427A. GCN Circ. 13271, 1 (2012).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti, M. Marisaldi, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm and D. Palmer: IPN triangulation of GRB 121118B (long/intense). GCN Circ. 13977, 1 (2012).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 120316A. GCN Circ. 13073, 1 (2012).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, D.M. Smith and J. McTiernan: IPN triangulation of GRB 120728B (long/intense). GCN Circ. 13549, 1 (2012).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti, M. Marisaldi, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN triangulation of GRB 120911B (long/bright). GCN Circ. 13755, 1 (2012).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 120707A. GCN Circ. 13424, 1 (2012).

Hurley, K., J. Goldsten, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthel-

my, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, D.M. Smith, J. McTiernan and W. Hajdas: IPN triangulation of GRB 120226A. GCN Circ. 12993, 1 (2012).

Hurley, K., J. Goldsten, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 120602A (long/very bright). GCN Circ. 13365, 1 (2012).

Hurley, K., J. Goldsten, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN triangulation of long GRB 120919B. GCN Circ. 13788, 1 (2012).

Hurley, K., J. Goldsten, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of long GRB 120919A. GCN Circ. 13786, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, V. Connaughton, M. Briggs, C. Meegan, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of long GRB 120916A. GCN Circ. 13778, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, V. Connaughton, M.S. Briggs and C. Meegan: IPN triangulation of short GRB 120830A. GCN Circ. 13705, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN triangulation of GRB 120709A. GCN Circ. 13462, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of unusual GRB 120716A. GCN Circ. 13487, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN triangulation of bright GRB 120426A. GCN Circ. 13265, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of GRB 120328B (long/intense). GCN Circ. 13157, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 121118A. GCN Circ. 13975, 1 (2012).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm and D. Palmer: IPN triangulation of GRB 121122A (long/intense). GCN Circ. 14001, 1 (2012).

Hurley, K., J.-L. Atteia, C. Barraud, A. Pelangeon, M. Boer, R. Vanderspek, G. Ricker, E. Mazets, S. Golenetskii, D.D. Frederiks, V.D. Pal'Shin, R.L. Aptekar, D.M. Smith, C. Wigger, W. Hajdas, A. Rau, A. von Kienlin, I.G. Mitrofanov, D.V. Golovin, A.S. Kozyrev, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, S. Barthelmy, T. Cline, J. Cummings, N. Gehrels, H.A. Krimm, K. Yamaoka, Y. Fukazawa, Y. Hanabata, M. Ohno, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, C. Guidorzi, F. Frontera, C.E. Montanari, F. Rossi, J. Trombka, T. McClanahan, R. Starr, J. Goldsten and R. Gold: The IPN supplement to the HETE-2 GRB catalog (Hurley+, 2011). VODC 219, 70034 (2012).

Jaffe, Y.L., A. Aragon-Salamanca, H. Kuntschner, S. Bamford, C. Hoyos, L.G. de, C. Halliday, B. Milvang-Jensen, B. Poggianti, G. Rudnick, R.P. Saglia, P. Sanchez-Blazquez and D. Zaritsky: Gas properties in emission-line galaxies (Jaffe+, 2011). VODC 741, 71996 (2012).

Kann, D.A., M. Nardini and J. Greiner: GRB 121017A: GROND observations. GCN Circ. 13881, 1 (2012).

Kann, D.A., S. Klose and J. Greiner: GRB 120728A: GROND afterglow discovery. GCN Circ. 13542, 1 (2012).

Kann, D.A., S. Klose and J. Greiner: GRB 120728A: GROND observations. GCN Circ. 13526, 1 (2012).

Kirkpatrick, J.D., M.C. Cushing, C.R. Gelino, R.L. Griffith, M.F. Skrutskie, K.A. Marsh, E.L. Wright, A. Mainzer, P.R. Eisenhardt, I.S. McLean, M.A. Thompson, J.M. Bauer, D.J. Benford, C.R. Bridge, S.E. Lake, S.M. Petty, S.A. Stanford, C.-W. Tsai, V. Bailey, C.A. Beichman, J.S. Bloom, J.J. Bochanski, A.J. Burgasser, P.L. Capak, K.L. Cruz, P.M. Hinz, J.S. Kartaltepe, R.P. Knox, S. Manohar, D. Masters, M. Morales-Calderon, L.A. Prato, T.J. Rodigas, M. Salvato, S.D. Schurr, N.Z. Scoville, R.A. Simcoe, K.R. Stapelfeldt, D. Stern, N.D. Stock and W.D. Vacca: First brown dwarfs discovered by WISE (Kirkpatrick+, 2011). VODC 219, 70019 (2012).

Klose, S., J. Greiner, J. Fynbo, A. Nicuesa Guelbenzu, S. Schmidl, A. Rau and T. Kruehler: GRB 120714B: GROND/FORS2 detection of a supernova. GCN Circ. 13613, 1 (2012).

Knust, F., P. Schady and J. Greiner: GRB 121024A: GROND detection of the Optical/NIR afterglow. GCN Circ. 13891, 1 (2012).

Knust, F., S. Klose, A. Nicuesa Guelbenzu and J. Greiner: GRB 120923A: GROND upper limits. GCN Circ. 13811, 1 (2012).

Knust, F., T. Kruehler, J. Greiner and S. Klose: GRB 120922A: GROND afterglow candidate. GCN Circ. 13795, 1 (2012).

Knust, F., T. Kruehler, S. Klose and J. Greiner: GRB 120922A: GROND photometric redshift. GCN Circ. 13810, 1 (2012).

Kruehler, T., A. Nicuesa Guelbenzu and J. Greiner: GRB 121209A: GROND optical afterglow candidate. GCN Circ. 14049, 1 (2012).

Kruehler, T., S. Klose and J. Greiner: GRB 121201A: GROND afterglow observations and photometric redshift. GCN Circ. 14031, 1 (2012).

Kurk, J., A. Cimatti, E. Daddi, M. Mignoli, L. Pozzetti, M. Dickinson, M. Bolzonella, G. Zamorani, P. Cassata, G. Rodighiero, A. Franceschini, A. Renzini, P. Rosati, C. Halliday and S. Berta: GMASS photometry (Kurk+, 2013). VODC 354, 99063 (2012).

Li, J., S. Zhang, Y.P. Chen, M. Tuerler, J. Chenevez, E. Bozzo, C. Ferrigno, A. Tramacere, I. Caballero, J. Rodriguez, M. Cadolle-Bel, C. Sanchez-Fernandez, M. d. Santo, A. Tarana, M. Fiocchi, P.R. den Hartog, I. Kreykenbohm, M. Kuehnel, A. Paizis, G. Puehlhofer, K. Watanabe and G. Weidenspointner: Swift/XRT follow-up observation of IGR J18179-1621. The Astronomer's Telegram 3950, 1 (2012).

Mainieri, V., A. Bongiorno, A. Merloni, M. Aller, M. Carollo, K. Iwasawa, A.M. Koekemoer, M. Mignoli, J.D. Silverman, M. Bolzonella, M. Brusa, A. Comastri, R. Gilli, C. Halliday, O. Ilbert, E. Lusso, M. Salvato, C. Vignali, G. Zamorani, T. Contini, J.-P. Kneib, O. Le Fevre, S. Lilly, A. Renzini, M. Scodeggio, I. Balestra, S. Bardelli, K. Caputi, G. Coppa, O. Cucciati, S. dela Torre, L. de Ravel, P. Franzetti, B. Garilli, A. Iovino, P. Kampczyk, C. Knobel, K. Kovac, F. Lamareille, J.-F. Le Borgne, V. Le Brun, C. Maier, P. Nair, R. Pello, Y. Peng, E. Perez Montero, L. Pozzetti, E. Ricciardelli, M. Tanaka, L. Tasca, L. Tresse, D. Vergani, E. Zucca, H. Aussel, P. Capak, N. Cappelluti, M. Elvis, F. Fiore, G. Hasinger, C. Impey, E. Le Floc'h, N. Scoville, Y. Taniguchi and J. Trump: Type-2 QSOs in XMM-COSMOS (Mainieri+, 2011). VODC 353, 59080 (2012).

Martins, F., N.M. Foerster Schreiber, F. Eisenhauer and D. Lutz: NIR spectrum of NGC1705-1 (Martins+, 2012). VODC 354, 79017 (2012).

McNeil-Moylan, E.K., K.C. Freeman, M. Arnaboldi and O.E. Gerhard: NGC 1316 planetary nebula kinematics (McNeil-Moylan+, 2012). VODC 353, 99011 (2012).

Nardini, M., S. Schmidl, J. Greiner and D.A. Kann: GRB 120422A GROND observations. GCN Circ. 13256, 1 (2012).

Nicuesa Guelbenzu, A., S. Klose, M. Nardini and J. Greiner: GRB 121117A: GROND confirmation of the UVOT afterglow candidate. GCN Circ. 13976, 1 (2012).

Nicuesa Guelbenzu, A., S. Schmidl, V. Sudilovsky and J. Greiner: GRB 120514A: GROND upper limits. GCN Circ. 13298, 1 (2012).

Nikolov, N., T. Henning, J. Koppenhoefer, M. Lendl, G. Maciejewski and J. Greiner: WASP-4b transit griz light curves (Nikolov+, 2012). VODC 353, 99159 (2012).

Paciesas, W.S., C.A. Meegan, A. von Kienlin, P.N. Bhat, E. Bissaldi, M.S. Briggs, J.M. Burgess, V. Chaplin, V. Connaughton, R. Diehl, G.J. Fishman, G. Fitzpatrick, S. Foley, M. Gibby, M. Giles, A. Goldstein, J. Greiner, D. Gruber, S. Guiriec, A.J. van der Horst, R.M. Kippen, C. Kouveliotou, G. Lichti, L. Lin, S. McBreen, R.D. Preece, A. Rau, D. Tierney and C. Wilson-Hodge: The Fermi GBM catalog (Paciesas+, 2012). VODC 219, 90018 (2012).

Pasquini, L., A. Brucalassi, M.T. Ruiz, P. Bonifacio, C. Lovis, R. Saglia, C. Melo, K. Biazzo, S. Randich and L.R. Bedin: Radial Velocities of stars observed in M67 (Pasquini+, 2012). VODC 354, 59139 (2012).

Rau, A. and C. Meegan: GRB 111222A: Fermi GBM observations. GCN Circ. 12806, 1 (2012).

Rau, A. and G. Kanbach: GRB120816A: OPTIMA discovery of optical counterpart. GCN Circ. 13657, 1 (2012).

Rau, A., F. Knust, D.A. Kann and J. Greiner: Swift J174510.8-262411: GROND discovery of a candidate near-IR counterpart. The Astronomer's Telegram 4380, 1 (2012).

Rau, A., J. Greiner and P. Schady: Swift J1910.2-0546: GROND discovery of a candidate optical/near-IR counterpart. The Astronomer's Telegram 4144, 1 (2012).

Rau, A., M. Nardini and J. Greiner: SwiftJ1943.4+0228: GROND observation of the optical/near-IR counterpart. The Astronomer's Telegram 4054, 1 (2012).

Rau, A., P. Schady and J. Greiner: GROND observations of Fermi J1717-5156. The Astronomer's Telegram 4032, 1 (2012).

Rau, A., P. Schady, D.A. Kann and J. Greiner: IGRJ17062-6143: GROND observations of the optical/near-IR counterpart. The Astronomer's Telegram 4214, 1 (2012).

Rau, A., P. Schady, J. Greiner, M. Salvato, M. Ajello, E. Bottacini, N. Gehrels, P.M.J. Afonso, J. Elliott, R. Filgas,

D.A. Kann, S. Klose, T. Kruehler, M. Nardini, A. Nicuesa Guelbenzu, E.F. Olivares, A. Rossi, V. Sudilovsky, A.C. Updike and D.H. Hartmann: BL Lac objects beyond z=1.3 (Rau+, 2012). VODC 353, 89026 (2012).

Rau, A., P. Schady, J. Greiner, and T. Kruehler: GROND observations of Swift J063933.6+054918: Likely a flare star. The Astronomer's Telegram 4634, 1 (2012).

Rau, A.: Fermi gamma-ray burst monitor trigger 120527.573 is not a GRB. GCN Circ. 13347, 1 (2012).

Rau, A.: GBM triggers 120604.526 & 120604.399 were not GRBs. GCN Circ. 13355, 1 (2012).

Rau, A.: GBM triggers 120705.153 & 120705.322 were not GRBs. GCN Circ. 13419, 1 (2012).

Rau, A.: GRB 120212A: Fermi GBM observation. GCN Circ. 12950, 1 (2012).

Rau, A.: GRB 120729A: Fermi GBM observation. GCN Circ. 13560, 1 (2012).

Rau, A.: GRB 120919A: Fermi GBM detection. GCN Circ. 13785, 1 (2012).

Reichert, A., H. Böhringer, R. Fassbender and M. Muehlegger: X-ray galaxy clusters study (Reichert+, 2011). VODC 353, 59004 (2012).

Rossi, A., M. Nardini, S. Klose and J. Greiner: GRB 120521A: GROND upper limits. GCN Circ. 13335, 1 (2012).

Rossi, A., M. Nardini, S. Klose and J. Greiner: GRB 120521B: GROND upper limits. GCN Circ. 13328, 1 (2012).

Rossi, A., P. Schady and J. Greiner: GRB 120927A: GROND upper limits. GCN Circ. 13827, 1 (2012).

Saintonge, A., G. Kauffmann, C. Kramer, L.J. Tacconi, C. Buchbender, B. Catinella, S. Fabello, J. Gracia-Carpio, J. Wang, L. Cortese, J. Fu, R. Genzel, R. Giovanelli, Q. Guo, M.P. Haynes, T.M. Heckman, M.R. Krumholz, J. Lemonias, C. Li, S. Moran, N. Rodriguez-Fernandez, D. Schiminovich, K. Schuster and A. Sievers: COLD GASS survey (Saintonge+, 2011). VODC 741, 50032 (2012).

Savchenko, V., S. Mereghetti, C. Ferrigno, E. Bozzo, T.J.-L. Courvoisier, D. Goetz, J. Borkowski, A. v. Kienlin, A. Rau, X. Zhang and V. Beckmann: Detection of bursting activity with INTEGRAL/SPI-ACS, possibly from 1E 2259+586 or SGR 1806-20. The Astronomer's Telegram 4101, 1 (2012).

Saxton, C.J., J. Greiner, J. Fynbo, A. Nicuesa Guelbenzu, S. Schmidl, A. Rau and T. Kruehler: Supernova 2012eb = GRB 120714B. IAU Telegram 3200, 1 (2012).

Schady, P., A. Nicuesa Guelbenzu, S. Klose, D.A. Kann, M. Nardini and J. Greiner: GRB 120624B: GROND upper limits. GCN Circ. 13393, 1 (2012).

Schady, P., J. Greiner, S. Schmidl and D.A. Kann: GRB 120202A: GROND observations. GCN Circ. 12913, 1 (2012).

Schady, P., M. Nardini and J. Greiner: GRB 120716A: GROND confirmation of the optical/NIR afterglow. GCN Circ. 13492, 1 (2012).

Schady, P., S. Klose and J. Greiner: GRB 120821A: GROND upper limits. GCN Circ. 13697, 1 (2012).

Schady, P., V. Sudilovsky, J. Greiner and T. Kruehler: GRB 120119A: GROND detection of the Optical/NIR afterglow. GCN Circ. 12863, 1 (2012).

Schmidl, S., A. Nicuesa Guelbenzu, S. Klose and J. Greiner: GRB 121123A: GROND observations. GCN Circ. 13992, 1 (2012).

Schmidl, S., D.A. Kann, S. Klose and J. Greiner: GRB 121001A: GROND afterglow confirmation. GCN Circ. 13840, 1 (2012).

Sturm, R., F. Haberl, W. Pietsch, S. Immler and A. Udalski: Swift J053321.3-684121 - A candidate HMXB in the LMC. The Astronomer's Telegram 3993, 1 (2012).

Sudilovsky, V., A. Nicuesa Guelbenzu and J. Greiner: GROND observations of GRB 120327A. GCN Circ. 13129, 1 (2012).

Sudilovsky, V., A. Rau and J. Greiner: GRB120404A: GROND observations show steeply decaying afterglow. GCN Circ. 13229, 1 (2012).

Sudilovsky, V., A.N. Guelbenzu and J. Greiner: GRB 120324A: GROND observations. GCN Circ. 13098, 1 (2012).

Sudilovsky, V., D.A. Kann and J. Greiner: GRB 120722A: GROND detection of the afterglow. GCN Circ. 13506, 1 (2012).

Sudilovsky, V., D.A. Kann and J. Greiner: GRB 120815A: GROND afterglow candidate. GCN Circ. 13648, 1 (2012).

Sudilovsky, V., D.A. Kann, T. Kruehler and J. Greiner: GRB 121027A: GROND confirmation of rebrightening. GCN Circ. 13926, 1 (2012).

Sudilovsky, V., J. Elliott and J. Greiner: GRB 120804A: GROND upper limits. GCN Circ. 13579, 1 (2012).

Sudilovsky, V., J. Elliott, J. Greiner, T. Kruehler and A. Rau: GRB 120401A: GROND detection of an optical/NIR afterglow candidate. GCN Circ. 13219, 1 (2012).

Sudilovsky, V., S. Klose and J. Greiner: GRB 120819A: GROND afterglow confirmation. GCN Circ. 13688, 1 (2012).

Sudilovsky, V., S. Schmidl, D.A. Kann and J. Greiner: GRB 120909A: GROND detection of the afterglow. GCN Circ. 13729, 1 (2012).

Sudilovsky, V., T. Prinz and J. Greiner: GROND observations of GRB 120311A. GCN Circ. 13048, 1 (2012).

Sun, Y.-C., Y. Bai, X.-T. He, Y. Chen, J.-H. Wu, Q.-K. Li, R.F. Green and W. Voges: Optical identification of ROSAT AGN (Sun+, 2012). VODC 460, 3001 (2012).

Symeonidis, M., A. Georgakakis, N. Seymour, R. Auld, J. Bock, D. Brisbin, V. Buat, D. Burgarella, P. Chanial, D.L. Clements, A. Cooray, S. Eales, D. Farrah, A. Franceschini, J. Glenn, M. Griffin, E. Hatziminaoglou, E. Ibar, R.J. Ivison, A.M.J. Mortier, S.J. Oliver, M.J. Page, A. Papageorgiou, C.P. Pearson, I. Perez-Fournon, M. Pohlen, J.I. Rawlings, G. Raymond, G. Rodighiero, I.G. Roseboom, M. Rowan-Robinson, D. Scott, A.J. Smith, K.E. Tugwell,

M. Vaccari, J.D. Vieira, L. Vigroux, L. Wang and G. Wright: SPIRE (f250um>17.4mJy) GOODS-N galaxies (Symeonidis+, 2011). VODC 741, 72239 (2012).

Tuerler, M., J. Chenevez, E. Bozzo, C. Ferrigno, A. Tramacere, I. Caballero, J. Rodriguez, M. Cadolle-Bel, C. Sanchez-Fernandez, M. Del Santo, M. Fiocchi, A. Tarana, P.R. den Hartog, I. Kreykenbohm, M. Kuehnel, A. Paizis, G. Puehlhofer, K. Watanabe, G. Weidenspointner and S. Zhang: A new hard X-ray transient discovered by INTEGRAL: IGR J18179-1621. The Astronomer's Telegram 3947, 1 (2012).

Young, L.M., M. Bureau, T.A. Davis, F. Combes, R.M. McDermid, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.T. de Zeeuw, E. Emsellem, S. Khochfar, D. Krajnovic, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra and A.-M. Weijmans: ATLAS3D project. IV. (Young+, 2011). VODC 741, 40940 (2012).

von Kienlin, A.: Fermi GBM detection of an SGR-like burst. GCN Circ. 12958, 1 (2012).

von Kienlin, A.: GRB 120624A: Fermi GBM observation. GCN Circ. 13380, 1 (2012).

von Kienlin, A.: GRB 121029A: Fermi GBM detection. GCN Circ. 13925, 1 (2012).

Poster

Alexander, F. et al.: Understanding a Nearby Massive Star Region: Scorpius-Centaurus, European Week of Astronomy and Space Science, Rome, Italy, July 2012.

Alexander, F. et al.: Understanding a Nearby Massive Star Region: Scorpius-Centaurus, 9th INTEGRAL Workshop: An INTEGRAL view of the high-energy sky, Paris, France, October 2012.

Alexander, F.: Understanding a Nearby Massive Star Region: Scorpius-Centaurus, Galactic Scale Star Formation, Heidelberg, Germany, July 2012.

Aschauer, F. et al.: Novel Noise Estimation Approach for X-Ray Detectors on FPGAs, IEEE NSS-MIC, Anaheim, USA, October 2012.

Becker, W. et al.: Proper Motion of the CCO RX J0822-4300 in the SNR Puppis-A, UK-German National Astronomy Meeting 2012, Manchester, UK, April 2012.

Boxhammer, V. et al.: Inactivation of Bacteria in Solution by Atmospheric Pressure Plasma: Density Effects, 4th International Conference on Plasma Medicine, Orléans, France, June 2012.

Brunner, H. et al.: eROSITA data analysis: pipeline processing, archiving, data access, 2nd Conference on Science with eROSITA and ART-XC aboard Spectrum-RG, Kazan, Russia, September 2012.

Burtscher, L. et al.: Resolving AGN outflows, Black Hole Feedback 2012, Hanover, New Hampshire, USA, August 2012.

Burwitz, V. et al.: Extending the MPE Panter X-ray test facility, SPIE Astronomical Telescopes and Instrumentation, Amsterdam, The Netherlands, July 2012.

Burwitz, V. et al.: eROSITA Testing and Calibration Activities at the MPE PANTER X-ray Test Facility, 2nd Conference on Science with eROSITA and ART-XC aboard Spectrum-RG, Kazan, Russia, September 2012.

Dennerl, K. et al.: Determination of the eROSITA mirror HEW with subpixel resolution, 2nd Conference on Science with eROSITA and ART-XC aboard Spectrum-RG, Kazan, Russia, September 2012.

Dennerl, K. et al.: Determination of the eROSITA mirror HEW with subpixel resolution, SPIE Astronomical Telescopes and Instrumentation, Amsterdam, The Netherlands, July 2012.

Du, C.-R. et al.: Interaction of two-dimensional plasma crystals with upstream charged particles, 39th IEEE International Conference on Plasma Science, Edinburg, UK, July 2012.

Freyberg, M. et al.: Calibration of the eROSITA internal calibration source: design and trade-off analysis, SPIE Astronomical Telescopes and Instrumentation, Amsterdam, The Netherlands, July 2012.

Freyberg, M. et al.: Design and trade-off study of the eROSITA internal calibration source, 2nd Conference on Science with Spectrum-RG/eROSITA and ART-XC, Kazan, Russia, September 2012.

Freyberg, M. et al.: On the eROSITA in-orbit calibration strategy and plan, 2nd Conference on Science with Spectrum-RG/eROSITA and ART-XC, Kazan, Russia, September 2012.

Freyberg, M. et al.: eROSITA as an explorer of the Local Interstellar Medium and the Soft X-ray Background, 2nd Conference on Science with Spectrum-RG/eROSITA and ART-XC, Kazan, Russia, September 2012.

Fuermetz, M. et al.: The thermal control system of the X-ray telescope eROSITA, 2nd Conference on Science with eROSITA and ART-XC aboard Spectrum-RG, Kazan, Russia, September 2012.

Karska, A.: Herschel/ PACS survey of deeply-embedded young stellar objects, From atoms to pebbles, Grenoble, France, March 2012.

von Kienlin, A.: The Fermi GBM Gamma-Ray Burst Catalog: Years Three & Four, Gamma-Ray Bursts 2012 Conference (GRB 2012), Munich, Germany, May 2012.

von Kienlin, A.: The Fermi GBM Gamma-Ray Burst Catalog: years Three & Four, 9th INTEGRAL Workshop: "An INTEGRAL view of the high-energy sky" (the first 10 years), Paris, France, October 2012.

von Kienlin, A.: eROSITA on-board Spectrum-RG, 9th INTEGRAL Workshop: "An INTEGRAL view of the high-energy sky" (the first 10 years), Paris, France, October 2012.

von Kienlin, A.: The Fermi GBM Gamma-Ray Burst Catalog: Years Three & Four, Gamma-Ray Bursts 2012 Conference (GRB 2012), Munich, Germany, May 2012.

Klecker, B., et al.: Direct measurement of the ionic charge of Anomalous Cosmic Rays with SAMPEX, AGU Fall Meeting, San Francisco, December 2012.

Knapek, C.A. et al.: Scale-Free Behavior of a 2D Complex Plasma During Rapid Cooling, 39th IEEE International Conference on Plasma Science (ICOPS 2012), Edinburgh, UK, July 2012.

Kretschmer, M. et al.: Instabilities in Complex RF and DC Plasmas, 39th IEEE International Conference on Plasma Science (ICOPS12), Edinburgh, UK, July 2012.

Köritzer, J. et al.: Inactivation of different microorganisms including EHEC and MRSA by non-thermal atmospheric plasma devices, MRS Spring Meeting, San Francisco, USA, April 2012.

Li, Y.-F. et al.: In Vivo Skin Test by Using a Portable Cold Atmospheric Plasma Device, The 4th International Conference on Plasma Medicine, Orléans, France, June 2012.

Mitra, A et al.: Enhanced germination characteristics and seed vigor by Cold Atmospheric Plasma, 4th international conference on plasma medicine, Orléans, France, June 2012.

Mitra, A et al.: Enhanced germination characteristics and seed vigor by Cold Atmospheric Plasma, 4th international conference on plasma medicine, Orléans, France, June 2012.

Modest, H.I. et al.: Can Bianchi- and fNL-models explain the phase correlations in CMB data?, Critical Tests of Inflation Using Non-Gaussianity, Munich, Germany, December 2012.

Müller, T. et al.: TNOs are Cool: A Survey of the Trans-Neptunian Region - Herschel Observations and Thermal Modeling of Large Samples of Kuiper Belt Objects, Asteroids, Comets, Meteors (ACM) 2012, Niigata, Japan, May 2012.

Müller, T. et al.: TNOs are Cool: A survey of the trans-Neptunian region - Herschel observations and thermal modeling of large samples of Kuiper belt objects, European Planetary Science Congress 2012, Madrid, Spain, September 2012.

Nosenko, V. et al.: Anisotropic Shear Melting of a 2D Complex (Dusty) Plasma, International Topical Conference on Plasma Science: Advanced Plasma Concepts, Faro, Portugal, September 2012.

Nosenko, V. et al.: Microstructure of a liquid complex (dusty) plasma under shear, XXI Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases, Viana do Castelo, Portugal, July 2012.

Nosenko, V. et al.: Microstructure of liquid complex plasma under shear, 3rd International Conference CODEF III, Bonn, Germany, March 2012.

Pustylnik, M. et al.: High-Voltage Nanosecond Pulse Discharge in a Low-Pressure Preionized Medium, XXI Europhysics Conference on Atomic and Molecular Physics of Ionized Gases, Viana do Castelu, Portugal, July 2012.

Pustylnik, M. et al.: On the mechanism of the heartbeat instability in complex plasmas, 39-th European Physical Society Conference on Plasma Physics and 16-th International Congress on Plasma Physics, Stockholm, Sweden, July 2012.

Rau, A. et al.: The X-ray Transient Sky - GROND Follow-up of X-ray Transients and Variables, 2nd Conference on Science with Spectrum-RG/eROSITA and ART-XC, Kazan, Russia, September 2012.

Rossmanith, G. et al.: Probing non-Gaussianities on an Incomplete Sky, Inflationary Theory and its Confrontation with Data in the PLANCK Era, Aspen, USA, February 2012.

Salvato, M. et al.: 4MOST for EUCLID, Copenhagen, Denmark, May 2012.

Salvato, M. et al.: eROSITA, EUCLID meeting, Copenhagen, Denmark, May 2012.

Schartmann, M. et al.: Origin and Fate of the GC Cloud G2, Universe Cluster Symposium: Symmetry and Phases in the Universe, Irsee, Germany, February 2012.

Schartmann, M. et al.: Simulations of the Origin and Fate of the GC Cloud G2, STScI May Symposium: Gas Flows in Galaxies, Baltimore, USA, May 2012.

Schwabe, M. et al.: Apparent surface tension in complex plasmas, Department of Energy Plasma Science Center Annual Review, Princeton, USA, May 2012.

Shimizu, S. et al.: Application of low-temperature atmospheric pressure plasma for preventing biological contamination - requirement in life research space missions, 11th Asia-Pacific Conference on Plasma Science and Technology / 25th Symposium on Plasma Science for Materials, Kyoto, Japan, October 2012.

Shimizu, S. et al.: Application of low-temperature atmospheric pressure plasma for the demand of planetary protection policy, 2012 Materials Research Society Spring Meeting & Exhibit, San Francisco, USA, April 2012.

Sidorenko, I. et al.: Assessment of global morphological and topological changes in trabecular structure under the bone resorption process, SPIE, Medical Imaging 2012, San Diego, USA, February 2012.

Strong, A.W.: Interstellar cosmic-ray spectra from synchrotron and gamma rays, Gamma-2012, Heidelberg, Germany, July 2012.

Vilenius, E. et al.: TNOs are Cool: Thermal modeling of large samples of Kuiper belt objects observed with Herschel Space Observatory, Planet Formation and Evolution 2012, Munich, Germany, September 2012.

Weidenspointner, G. et al.: Calibration of the Non-Linear System Gain of a Prototype Setup of the DSSC Detector for the European XFEL, IEEE NSS-MIC conference, Anaheim, USA, October 2012.

Yaroshenko, V.V. et al.: Cassini-plasma interactions in the Enceladus torus, General Assembly EGU, Vienna, Austria, April, 2013.

Yaroshenko, V.V. et al.: Spacecraft-Plasma Interactions in Saturn’s Magnetosphere, High-Tech Plasma Processes Conference, Bologna, Italy, June 2012.

Zhang, X.-L. et al.: INTEGRAL/SPI and Fermi/GBM Observation of the 2012Mar07 Solar Flares, The 9th INTE-

GRAL Workshop, Paris, France, October 2012.

Ziparo, F. et al.: The role of environment in the evolution of star formation activity up to z~1.6, Growing-up at high redshift: from proto-clusters to galaxy clusters (ESAC), Madrid, Spain, September 2012.

Ziparo, F. et al.: The role of environment in the evolution of star formation activity up to z~1.6, IMPRS evaluation, Garching, Germany, July 2012.

Vorträge

Antonova, T.: Expansion of complex plasma and dust particle charge, contributed talk, 39th IEEE International Conference on Plasma Science, Edinburgh, UK, July 2012.

Antonova, T.: Expansion of complex plasma and dust particle charge, colloquium, Edinburgh, UK, July 2011.

Aschauer, F.: Ethernet based real-time DAQ system (SuMoDAQ), invited talk, Stanford Linear Accelerator Center (SLAC), Stanford, USA, October 2012.

Aschauer, F.: SuMoDAQ system for DePFET detectors, colloquium, Lehrstuhl für Integrierte Systeme TUM, Munich, Germany, January 2012.

Becker, W.: Deep Space Navigation With Pulsars, invited talk, Electromagnetic Radiation from Pulsars and Magnetars, Zielona Gora, Poland, April 2012.

Becker, W.: Deep Space Navigation With Pulsars, colloquium, Deutsches Zentrum für Luft- und Raumfahrt (DLR), Bremen, Deutschland, Juli 2012.

Becker, W.: Deep Space Navigation With Pulsars, colloquium, Max-Planck Institute for Radio Astronomy, Bonn, Deutschland, December 2012.

Becker, W.: Deep Space Navigation With Pulsars, contributed talk, Relativistic Positioning Systems and their Scientific Application, Brdo, Slovenia, September 2012.

Becker, W.: Deep Space Navigation With Pulsars, contributed talk, UK-German National Astronomy Meeting 2012, Manchester, UK, April 2012.

Becker, W.: SNRs/candidates in the eROSITA all-sky survey and radio observations with prospects for eROSITA, contributed talk, eROSITA Consortium Meeting, Hamburg, Germany, July 2012.

Becker, W.: eROSITA: Status & Scientific Prospects, colloquium, Radbound University, Nijmwege, The Netherlands, October 2012.

Bender, R.: Supermassive Black Holes in Nearby Galaxies, invited, Marcel Grossmann Meeting, Stockholm, Sweden, July 2012

Bender, R.: Supermassive Black Holes in Nearby Galaxies, colloquium, University of Leicester, UK, November 2012.

Boller, Th.: 20 years of X-raying Narrow-Line Seyfert 1 galaxies: Probing the extreme of Seyfert activity, contributed talk, Half a century of X-ray astronomy, Mykonos, Greece, September 2012.

Boller, Th.: 20 years of X-raying Narrow-Line Seyfert 1 galaxies: probing the extreme of Seyfert activity, contributed talk, 39th COSPAR Scientific Assembly, Mysore, India, July 2012.

Boller, Th.: Anfang und Ende des Universums, invited talk, Novartis Pharma GmbH Experten-Workshop Allergie: Diagnostik und Therapie, Hamburg, Germany, April 2012.

Boller, Th.: Anfang und Ende des Universums, public talk, Jahrestagung der Deutschen Mukoviszidose Gesellschaft, Würzburg, Germany, November 2012.

Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, 5th COST WGs-Meeting "Black Holes and Jets", Palermo, Italy, November 2012.

Boller, Th.: Astronomie für Schüler, public talk, Hauptschule Freising, Freising, Germany, January 2012.

Boller, Th.: Astronomie für Schüler, public talk, Montessori Schule Freising, Freising, Germany, February 2012.

Boller, Th.: Das Schicksal des Universums, public talk, Freundeskreis Evangelische Akademie Tutzing, Starnberg, Germany, September 2012.

Boller, Th.: Physikstudium an deutschen Universitäten: Informationsveranstaltung für Gymnasiasten, public talk, Gymnasium Ottobrunn: Rotary Berufsdienst, Munich, Germany, October 2012.

Boller, Th.: Science with 4MOST: Expanding the 4MOST AGN Science case, invited talk, 4MOST Science Workshop: Large Area Optical Spectroscopic Surveys, Potsdam, Germany, November 2012.

Boller, Th.: The 4MOST Facility Simulator and 4MOST trade-off decision, invited talk, 4MOST consortium meeting, Potsdam, Germany, March 2012.

Boller, Th.: The 4MOST Facility Simulator: Instrument and science optimisation, contributed talk, SPIE Astronomical Telescopes and Instrumentation 2012, Amsterdam, The Netherlands, July 2012.

Boller, Th.: The Zoo of AGN: Experimental tests of GR and its pseudo-complex extension, invited talk, Vulcano workshop: Frontier Objects in Astrophysics and Particle Physics, Vulcano, Italy, May 2012.

Boller, Th.: eROSITA status, invited talk, Vulcano workshop: Frontier Objects in Astrophysics and Particle Physics, Vulcano, Italy, May 2012.

Boxhammer, V.: Plasma in cell culture - artificial or model?, contributed talk, 1st Young Professionals Workshop on Plasma Medicine, Boltenhagen, Germany, September 2012.

Brightman, M.: The evolution of obscured AGN, contributed talk, 50 years of X-ray astronomy, Mykonos, Greece, September 2012.

Bruderer, S.: Comparison of chemistry and radiative trans-

fer models, invited talk, Exciting CO in the Local and High-Redshift Universe, Leiden, Netherlands, February 2012.

Bruderer, S.: Thermo-chemical models of the gas in cavities of transition disks, colloquium, Vienna, Austria, November 2012.

Bruderer, S.: Warm gas atmospheres of the protoplanetary disks seen by Herschel: Gas rich and carbon poor?, contributed talk, From Atoms to Pebbles: Herschel's view of Star and Planet Formation, Grenoble, France, March 2012.

Brusa, M.: AGN in the golden epoch of galaxy-AGN coevolution - ALMA perspectives, contributed talk, millimeter and submillimeter Astronomy workshop, Bologna, Italy, April 2012.

Brusa, M.: Iron line emission in average X-ray spectra of Active Galaxies, colloquium, MPA High-energy seminars, Munich, Germany, April 2012.

Brusa, M.: Lessons on AGN from X-ray surveys, invited talk, 10th national congress on AGN: "dall'orizzone degli eventi all'orizzonte cosmologico", Rome, Italy, September 2012.

Brusa, M.: Obscured AGN in the golden epoch of AGN-galaxy co-evolution, contributed talk, 50 years of X-ray astronomy meeting, Mykonos, Greece, September 2012.

Brusa, M.: Obscured AGN in the golden epoch of galaxy AGN coevolution - eROSITA perspectives, contributed talk, Second International eROSITA conference, Kazan, Russia, September 2012.

Brusa, M.: The X-ray selected high-z AGN population, invited talk, High-z Workshop, Bologna, Italy, June 2012.

Bunk, W.: Preliminary Inhalation Experiments, contributed talk, Plasma Medicine Workshop, Ringberg Castle, Kreuth, Germany, October 2012.

Burtscher, L.: From dawn to dust: The link between nuclear starbursts and AGN obscuration, invited talk, Torus Workshop 2012, San Antonio, Texas, USA, December 2012.

Burtscher, L.: Infrared interferometry of AGNs, invited talk, SPIE Astronomical Instrumentation, Amsterdam, The Netherlands, June 2012.

Burwitz, V.: Die Geschichte des DADOS, public talk, Regiomontanus Sternwarte, Nürnberg, Germany, June 2012.

Burwitz, V.: The MPE PANTER X-ray Test Facility, invited talk, IHEP, Beijing, China, November 2012.

Burwitz, V.: eROSITA Testing and Calibration Activities at the MPE PANTER X-ray Test Facility, colloquium, Science with eROSITA and ART-XC aboard Spectrum-RG, Kazan, Russia, September 2012, Kazan, Russia, September 2012.

Burwitz, V.: eROSITA on Spectrum-Rentgen-Gamma (SRG), contributed talk, IACHEC Meeting, Napa, USA, March 2012.

Chaudhuri, M.: A diagnostic to explore quasi-two-dimensional plasma crystal and cluster, contributed talk, 13th workshop on the physics of dusty plasma, Waco, USA, May 2012.

Chaudhuri, M.: Exploring complex (dusty) plasmas with defocus imaging technique, invited talk, National Symposium on Plasma Science & Technology, Pondicherry, India, December 2012.

Chaudhuri, M.: Grain Charging in an Intermediately Collisional Plasma, contributed talk, Deutsche Physikalische Gesellschaft (DPG) - Frühjahrstagung, Stuttgart, Germany, March 2012.

Collmar, W.: Erde, Sonne, Mond und Sterne: Eine Reise ins Weltall, public talk, Montessori Schule München, Munich, Germany, November 2012.

Collmar, W.: The Microquasar LS 5039 at MeV Energies, contributed talk, Black Holes and Jets, Palermo, Italy, November 2012.

Davies, R.: Causal Relations between Gas Inflow and Star Formation, invited talk, Star Formation and Its Environment in the Center of Galaxies, Hsinchu, Taiwan, November 2012.

Davies, R.: Enabling Technologies for MICADO, the E-ELT first light Imager, invited talk, Realizing the Astronomy of the Future, Oxford, UK, June 2012.

Davies, R.: Extragalactic Astronomy with Adaptive Optics, invited talk, Astronomical Telescopes and Instrumentation: Adaptive Optics Systems III, Amsterdam, The Netherlands, July 2012.

Davies, R.: MICADO, the E-ELT first light imager, invited talk, EWASS 2012: The European Extremely Large Telescope, Rome, Italy, July 2012.

Davies, R.: MICADO, the E-ELT first light imager, invited talk, The E-ELT Instrument Roadmap, London, UK, November 2012.

Davies, R.: Scientific Potential of Adaptive Optics Systems, invited talk, Gemini North Adaptive Optics Workshop, Victoria, Canada, June 2012.

Davies, R.: The Local View of Molecular Gas in AGN, invited talk, Galaxy and Black Hole Evolution at High Redshift, Jerusalem, Israel, October 2012.

Davies, R.: What can we learn about AGN-driven outflows from nearby galaxies?, invited talk, Galactic Winds of Change: confronting models with observations, Sexten, Italy, July 2012.

Davis, A.J.: Dark Matter in Early Dwarf Galaxies: Cores or Cusps, contributed talk, 39th Committee on Space Research Scientific Assembly, Mysore, India, July 2012.

Dennerl, K.: Charge Exchange Astrophysics with ATHENA, contributed talk, First German ATHENA Science Workshop, Garching, Germany, January 2012.

Dennerl, K.: Charge Exchange in Astrophysics, colloquium, Astrophysikalisches Seminar / Kolloquium, Tübingen, Germany, May 2012.

Dennerl, K.: Comets, charge exchange, and a novel look at the X-ray Universe with eROSITA, invited talk, Science with eROSITA and ART-XC aboard Spectrum-RG, Kazan, Russia, September 2012.

Dodds-Eden, K.: Sgr A* with VLT and APEX, contributed talk, Science with the Atacama Pathfinder Experiment,

Schloss Ringberg, Germany, February 2012.

Du, C.-R.: Introduction to Complex Plasmas, colloquium, Max-Planck-Institut Halbleiterlabor, Munich, Germany, March 2012.

Du, C.-R.: Introduction to Complex Plasmas: Experiments on ground and on board the International Space Station, colloquium, Institute of Condensed Matter Physics, Shanghai Jiao Tong University, Shanghai, China, March 2012.

Dwelly, T: 4MOST Facility Simulator - Operations Simulator and Fiber Allocator, invited talk, 4MOST Busy Week, AIP, Potsdam, Germany, March 2012.

Dwelly, T: The 4MOST Facility Simulator, invited talk, Large Area Optical Spectroscopic Surveys: Science with 4MOST, AIP, Potsdam, Germany, November 2012.

Eisenhauer, F.: Approaching the Event Horizon of SgrA* with GRAVITY and the EHT, invited talk, Galaxy and Black Hole Evolution at High Redshift, Jerusalem, Israel, October 2012.

Eisenhauer, F.: GRAVITY - Exploring Physics close to the Galactic Center Black hole, invited talk, COST conference: Black Holes: From Quantum To Gravity, Malta, April 2012.

Eisenhauer, F.: GRAVITY - Observing the Universe in Motion, invited talk, Institut de Planéétologie et d'Astrophysique de Grenoble, Grenoble, France, February 2012.

Eisenhauer, F.: GRAVITY: A preview, contributed talk, Annual Meeting of the Astronomische Gesellschaft 2012, Hamburg, Germany, September 2012.

Eisenhauer, F.: GRAVITY: Observing the Universe in motion, invited talk, SPIE Astronomical Telescopes and Instrumentation, Amsterdam, The Netherlands, July 2012.

Eisenhauer, F.: Infrared observations and interferometry of Sgr A*, invited talk, From stars to black holes: mm-VLBI with ALMA and other telescopes, Garching, Germany, June 2012.

Eisenhauer, F.: Riesenteleskope und Weltraumastronomie, invited talk, Lüscher-Lectures, Akademie für Lehrerfortbildung und Personalführung, Dillingen, Germany, September 2012.

Eisenhauer, F.: The instruments behind the discovery of the galactic center black hole and the origin of the orbiting stars, invited talk, Black holes and the centre of the galaxy: The international Crafoord Prize Symposium in Astronomy, Lund, Sweden, May 2012.

Fabricius, M.H.: Early results from the first year of observations with VIRUS-W, contributed talk, 9th Potsdam Thinkshop 2012, Potsdam, Germany, September 2012.

Freyberg, M.: eROSITA in-orbit calibration strategy and plan: from the ground to the science, contributed talk, SPIE Astronomical Telescopes and Instrumentation, Amsterdam, The Netherlands, July 2012.

Fritz, T.K.: The extinction curve towards the Galactic Center, colloquium, ESO Santiago, Santiago, Chile, August 2012.

Fritz, T.K.: The smallest and the biggest cluster, invited talk, Gluehwine Aarseth N-body meeting, Bonn, Germany, December 2012.

Förster Schreiber, N.M.: Galaxy growth: kinematics and star formation, invited talk, Galaxy and black hole evolution at high redshift, Jerusalem, Israel, October 2012.

Förster Schreiber, N.M.: IFU Surveys of Distant Galaxies with KMOS, contributed talk, 9th Potsdam Thinkshop 2012 - Galaxy Surveys using Integral Field Spectroscopy: Achievements and Opportunities, Potsdam, Germany, September 2012.

Förster Schreiber, N.M.: Structure and kinematics of distant galaxies, invited talk, ESO@50 -- the first 50 years of ESO, Garching, Germany, September 2012.

Förster Schreiber, N.M.: The growth of galaxies at z~2, invited talk, Galaxies Insight-Out, Leiden, The Netherlands, July 2012.

Förster Schreiber, N.M.: What drives star formation and stellar mass assembly at z~1-3? From SINFONI to KMOS, contributed talk, Annual Meeting of the Astronomische Gesellschaft - Splinter Session on Upcoming VLT Instrumentation, Hamburg, Germany, September 2012.

Genzel, R.: The Galactic Centre, invited talk, Workshop to celebrate the 50th anniversary of ESO, Garching, Germany, September 2012.

Genzel, R.: Galactic disks in the galaxy formation epoch, invited talk, Onsala Space Observatory & Chalmers University of Technology, Onsala, Sweden, May 2012.

Genzel, R.: Massereiche Schwarze Löcher und Entwicklung von Galaxien, public talk, Lectures in Astronomy (Littrow Lectures), Österreichische Akademie der Wissenschaften (ÖAW), Vienna, Austria, April 2012.

Genzel, R.: Massereiche Schwarze Löcher und Galaxien, invited talk, Ernst-Abbe-Kolloquium, Ernst-Abbe-Stiftung & Friedrich-Schiller-Universität Jena, Zeiss-Planetarium, Jena, Germany, April 2012.

Genzel, R.: Massive Black Holes and Galaxies, colloquium, PhD Physics School, University of Milano, Milano, Italy, May 2012.

Genzel, R.: Massive Black Holes and Galaxies, invited talk, Spanish Royal Academy of Sciences, Madrid, Spain, March 2012.

Genzel, R.: Massive Schwarze Löcher und die Entwicklung von Galaxien, invited talk, Katholische Akademie in Bayern, Munich, Germany, December 2012.

Genzel, R.: Massive Schwarze Löcher – Monster in Galaxienzentren, public talk, Volkssternwarte Darmstadt, Darmstadt, Germany, November 2012.

Genzel, R.: Massive black holes and galaxies, public talk, University of Gothenburg, Gothenburg, Sweden, May 2012.

Genzel, R.: Massive black holes: from discovery to cosmic evolution, invited talk, Crafoord Prize Lecture, Royal Swedish Academy, Lund, Sweden, May 2012.

Genzel, R.: Massive black holes: from discovery to cosmic evolution, invited talk, Crafoord Prize, Symposium “Black hole in the Centres of Galaxies”, Royal Swedish Academy, Lund, Sweden, May 2012.

Genzel, R.: Massive star forming galaxies at the peak of the galaxy formation epoch, invited talk, Tycho Brahe Prize Lecture, EWASS, Rome, Italy, July 2012.

Genzel, R.: Massive star forming galaxies at the peak of the galaxy formation epoch, colloquium, Astrophysics Colloquium, MIT, Cambridge, USA, May 2012.

Genzel, R.: Massive star forming galaxies at the peak of the galaxy formation epoch, colloquium, UCLA, Los Angeles, USA, February 2012.

Genzel, R.: Massive star forming galaxies at the peak of the galaxy formation epoch, colloquium, University of Toronto, Toronto, Canada, April 2012.

Genzel, R.: Recent Developments of High-z Galaxy Evolution: Overview and Key Issues, invited talk, Joint Research Conference of the Institute for Advanced Studies and the Israel Science Foundation "Galaxy and black hole evolution at high redshift", Jerusalem, Israel, October 2012.

Genzel, R.: Supermassive black holes and the evolution of galaxies, invited talk, Celebration of Admission, Royal Society Fellowship Foreign Member, Royal Society, London, United Kingdom, July 2012.

Genzel, R.: The Effects of Gas Flows on High-redshift Galaxies, invited talk, STScI Symposium “Gas Flows in Galaxies”, Baltimore, USA, May 2012.

Genzel, R.: The Galactic Center, invited talk, SIGRAV Graduate School in Contemporary Relativity and Gravitational Physics, X Edition “Astrophysical Black Holes”, three lectures, Lake Como, Italy, May 2012.

Genzel, R.: The Massive Black Hole at the Center of the Milky Way, colloquium, Tel Aviv University, Israel, October 2012.

Genzel, R.: The infalling gas cloud in the Galactic Center, colloquium, Institute for Nuclear and particle Astrophysics (INAP), Lawrence Berkeley National Laboratory (LBNL), Berkeley, USA, February 2012.

Genzel, R.: The infalling gas cloud in the Galactic Center, colloquium, UCLA Seminar, Los Angeles, USA, February 2012.

Genzel, R.: The nature of dispersion dominated z~1-3 star forming galaxies, invited talk, Santa Cruz Galaxy Workshop, Santa Cruz, USA, August 2012.

Genzel, R.: Vom Jagen nach schwarzen Löchern: Forschung braucht Freiheit, invited talk, 10. Gesprächsforum mit den Kuratoriumsvorsitzenden der Max-Planck-Institute, Schloß Ringberg, Kreuth, Germany, September.

Gerhard, O.: Dark Matter in Massive Galaxies, invited talk, The Intriguing Life of Massive Galaxies, IAU Symposium 295, IAU General Assembly, Beijing, China, August 2012.

Gerhard, O.: The Milky Way's Dark Matter Halo, colloquium, Shanghai Astronomical Observatory, Shanghai, China, September 2012.

Gerhard, O.: The Milky Way's Dark Matter Halo, invited talk, Galactic Archaeology Surveys: Past, Present and Future, Sydney, Australia, July 2012.

Gerhard, O.: What next in Dynamical Modelling?, invited talk, Dynamics meets Kinematic Tracer, Schloss Ringberg, Tegernsee, Germany, April 2012.

Gillessen, S.: A gas cloud on its way towards the supermassive black hole at the Galactic Centre, colloquium, Astronomical colloquium (held at ESO), Garching, Germany, 23.2.2012.

Gillessen, S.: A gas cloud on its way towards the supermassive black hole at the Galactic Centre, colloquium, Institut Astrophysique de Paris, Paris, France, 3.2.2012.

Gillessen, S.: A gas cloud on its way towards the supermassive black hole at the Galactic Centre, invited talk, Galaxy and Black Hole ISF Conference, Jerusalem, Israel, October 2012.

Gillessen, S.: A gas cloud on its way towards the supermassive black hole at the Galactic Centre, invited talk, eRosita-Meeting, Kazan, Russia, September 2012.

Gillessen, S.: Adaptive Optics observations of the supermassive black hole in the Galactic Center, colloquium, USM-Kolloquium, Munich, Germany, October 2012.

Gillessen, S.: Feuerwerk um das Schwarze Loch der Milchstraße, public talk, Sternwarte Radebeul, Radebeul, Germany, November 2012.

Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße, public talk, Lehrerfortbildung der Uni Jena, Jena, Germany, July 012.

Gillessen, S.: Food for a Monster, public talk, Lunch talk for non-scientists at ESO, Garching, Germany, June 2012.

Gillessen, S.: GRAVITY - a versatile tool designed for the Galactic Center, invited talk, Event-Horizon-Telescope Meeting, Tucson, USA, January 2012.

Gillessen, S.: Observing stellar motions at the Galactic Center, invited talk, Marcel-Grossmann-Meeting, Stockholm, Sweden, July 2012.

Gillessen, S.: Schwarze Löcher - Fiction oder Realität, public talk, Sternfreunde Rüsselsheim, Rüsselsheim, Germany, March 2012.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Carl-Orff-Gymnasium, Unterschleißheim, Germany, March 2012.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Seminarkolleg deutsches Museum, Munich, Germany, January 2012.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Verband Beratender Ingenieure, Weihenstephan, Germany, November 2012.

Gillessen, S.: The Galactic Center Supermassive Black Hole, invited talk, AstroGR workshop at the NAOC, Beijing, China, September 2012.

Gillessen, S.: The S-stars in the Galactic Center, invited talk, Aarseth N-body meeting, Bonn, Germany, 5.12.2012.

Gillessen, S.: The black hole at the Galactic Center, invited talk, Marcel-Grossmann-Meeting, Stockholm, Sweden, July 2012.

Gillessen, S.: The black hole in the galactic centre, invited talk, 9th LISA-Symposium, Paris, France, May 2012.

Gillessen, S.: The distance to the Galactic Center, invited talk, IAU Symposium on the cosmic distance ladder, Beijing, China, August 2012.

Gillessen, S.: Watching in real-time how the Galactic Center black hole starts getting fed, invited talk, COST-Meeting, Palermo, Italy, October 2012.

Graciá Carpio, J.: Gas contents and dynamics of high-z star forming galaxies, invited talk, NAM2012: 12 billion years of star formation and nuclear activity in galaxies - the submillimetre view, Manchester, UK, March 2012.

Graciá Carpio, J.: Herschel Views Galaxies, invited talk, Galaxy and Black Hole Evolution at High Redshift, Jerusalem, Israel, October 2012.

Haberl, F.: High Mass X-ray Binaries in External Galaxies, invited talk, 39th COSPAR Scientific Assembly, Scientific Event "Astrophysics with HMXBs", Mysore, India, July 2012.

Haberl, F.: The XMM-Newton survey of the Small Magellanic Cloud - results and future prospects, contributed talk, X-ray Astronomy: towards the next 50 years!, Milano, Italy, October 2012.

Haerendel, G.: Der Himmel strahlt: Was wir mit bloßem Auge sehen können, public talk, Seminar “Himmels(t) raum” der Evangelischen Akademie Tutzing, Germany, March 2012.

Haerendel, G.: Birth and Life of Auroral Arcs Embedded in the Evening Auroral Oval Convection: A Critical Comparison with Theory, colloquium, Space Sciences Laboratory, Univ. of California Berkeley, Berkeley, USA, May 2012.

Haerendel, G.: Fascinating plasma structures, colloquium, Instituto Nacional de Pesquisas Espaciais, INPE, Jão José dos Campos, Brazil, June 2012.

Haerendel, G.: Long-range momentum and energy transfer, colloquium, Instituto Nacional de Pesquisas Espaciais, INPE, Jão José dos Campos, Brazil, June 2012.

Haerendel, G.: Penetration of electric fields to low latitudes, colloquium, Instituto Nacional de Pesquisas Espaciais, INPE, Jão José dos Campos, Brazil, June 2012.

Haerendel, G.: Energy conversion processes and scales, colloquium, Instituto Nacional de Pesquisas Espaciais, INPE, Jão José dos Campos, Brazil, June 2012.

Hopp, U.: The compact, low scattered-light 2m Wendelstein Fraunhofer Telescope, colloquium, Kolloquium Astronomical Inst. University of Göttingen, Germany, March 2012.

Huber, P.: Temporal evolution of 3D structures in a 3D complex plasma, contributed talk, 13th Workshop on the Physics of Dusty Plasmas, Waco, USA, May 2012.

Huber, P.: Temporal evolution of 3D structures in a 3D complex plasma, contributed talk, Ringberg Meeting, Ringberg, Germany, October 2012.

Kanbach, G.: Extreme Optical Outbursts from a 'Magnetar-like' Transient Source: SWIFT J1955+26, contributed talk, 2nd BONN workshop on Formation and Evolution of Neutron Stars, Bonn, Germany, October 2012.

Karska, A.: Herschel/ PACS survey of deeply-embedded young stellar objects, contributed talk, Star and planet formation workshop, Garching, Germany, May 2012.

Karska, A.: Synergies between APEX and Herschel, contributed talk, Science with the Atacama Pathfinder Experiment (APEX), Ringberg Castle, Germany, February 2012.

Karska, A.: WISH - PACS observations of deeply-embedded young stellar objects, contributed talk, Studies of Star and Planet Forming Regions with Herschel at the Lorentz Center, Leiden, The Netherlands, June 2012.

Katterloher, R.O.: Die Satellitenmission EUCLID - Aspekte der Instrumententwicklung, invited talk, Hochschule für Angewandte Wissenschaften FH MünchenVDI Arbeitskreis Angewandte Physik, Munich, Germany, June 2012.

Khrapak, S.A.: ECOPLASMA: Exploring fundamental physics of strongly coupled systems with complex plasmas, invited talk, ERC, Brussels, Belgium, April 2012.

Khrapak, S.A.: Effect of ionization on particle charging in plasmas, contributed talk, Ringberg Meeting, Ringberg, Germany, October 2012.

Klämpfl, T.G.: Atmospheric Surface Micro-Discharge Air Plasma Sterilization of Bacterial Endospores and other Microorganisms of Clinical Interest, contributed talk, 2012 MRS Spring Meeting, San Francisco, USA, April 2012.

Klämpfl, T.G.: Atmospheric surface micro-discharge air plasma disinfection against Clostridium difficile spores, contributed talk, International Conference on Plasma Medicine 4(ICPM4), Orléans, France, June 2012.

Klämpfl, T.G.: Decontamination with cold atmospheric plasma, invited talk, 6th International Symposium on NBC-Decontamination, Münster, Germany, May 2012.

Klecker, B.: Energetic particles in the heliosphere, colloquium, National Space Science Institute, Beijing, China, May 2012.

Klecker, B., Principles of particle spectrometry, invited talk, National Space Science Institute, Beijing, China, May 2012.

Klecker, B.: Current understanding of SEP acceleration and propagation, invited talk, 23rd European Cosmic Ray Symposium, Moscow, Russia, July 2012.

Klecker, B.: Solar energetic particles: current understanding, open questions and potential progress by multi-spacecraft observations, invited talk, In-situ Heliospheric Science Symposium, JHU/APL, Laurel, MD, USA, September 2012.

Klecker, B.: Die Heliosphäre - unsere kosmische Heimat, public talk, Astronomietage mit Schwerpunktthema Sonne, Volkshochschule Ingolstadt, Germany, November 2012.

Klecker, B.: SAMPEX: New Insights into Solar Energetic Particles, invited talk, AGU Fall Meeting, San Francisco, December 2012.

Knapek, C.A.: PlasmaLab - Next Generation Plasma Chambers for the International Space Station, contributed talk, 39th International Conference on Plasma Sciences (ICOPS 2012), Edinburgh, UK, July 2012.

Köritzer, J.: Non-thermal Atmospheric Plasma Induces

Growth Inhibition, S/G2-phase Cell Cycle Arrest and Apoptosis in Human Glioma Cells, contributed talk, MRS Spring Meeting, San Francisco, USA, April 2012.

Krause, M.G.H.: Simulations of the impact of massive stars on the Interstellar Medium, colloquium, Observatory of the University of Geneva, Geneva, Switzerland, March 2012.

Kurk, J.: Exploring gas metallicity of distant galaxies with LUCI at the LBT, contributed talk, Annual Meeting of the Astronomische Gesellschaft 2012, Hamburg, Germany, September 28, 2012.

Kurk, J.: Metallicity in z~2 star forming galaxies, contributed talk, METALS in TUSCANY 2012 - Galaxy metallicity through Cosmic Times, Abbazia di Spineto, Italy, June 19, 2012.

Kurk, J.: Star formation in a galaxy structure at z=1.6, contributed talk, Santiago, Chile, February 2012.

Kurk, J.: The evolutionary status of a large scale galaxy structure at z=1.6, contributed talk, Growing-up at high redshift: from proto-clusters to galaxy clusters, Madrid, Spain, September 2012.

Landriau, M.: Cure development: 2D spectral extraction, contributed talk, 6th HETDEX Science Meeting, New Brunswick, NJ, USA, October 2012.

Landriau, M.: HETDEX Scheduling Update, contributed talk, 5th HETDEX Science Meeting, Austin, Texas, USA, January 2012.

Landriau, M.: Scheduling Update, contributed talk, 6th HETDEX Science Meeting, New Brunswick, NJ, USA, October 2012.

Landriau, M.: The Hobby-Eberly Telescope Dark Energy Experiment, contributed talk, Rencontres de Moriond: Cosmology, La Thuile, Italy, March 2012.

Landriau, M.: The Hobby-Eberly Telescope Dark Energy Experiment, invited talk, General Relativity Group Seminar, Department of Applied Mathematics and Theoretical Physics, University of Cambridge, Cambridge, UK, April 2012.

Lang, P.L.: The dust content in the starburst and red halo regions of Blue Compact Galaxies as seen by Spitzer, contributed talk, An Odyssey in the Galaxy Archipelago, Stockholm, Sweden, June 2012.

Li, Y.-F.: Bacterial inactivation in a thin layer medium by surface micro-discharge, contributed talk, The 39th IEEE International Conference on Plasma Science, Edinburgh, UK, July 2012.

Li, Y.-F.: Characterization of a portable large area air plasma device, contributed talk, MRS Spring Meeting, San Francisco, USA, April 2012.

Li, Y.-F.: Diagnostic of the surface micro-discharge using spectroscopic methods, contributed talk, The 65th Annual Gaseous Electronics Conference, Austin, USA, October 2012.

Li, Y.-F.: High bacterial inactivation property on aqueous metal surface by cold atmospheric plasma, contributed talk, The 2nd International Conference on Antimicrobial Research, Lisbon, Portugal, November 2012.

Lutz, D.: Apex-Herschel Synergies, invited talk, Science with the Atacama Pathfinder Experiment, Ringberg, Germany, February 2012.

Lutz, D.: Galaxy formation studies using deep surveys with Herschel-PACS, colloquium, USM colloquium, Munich, Germany, October 2012.

Lutz, D.: Infrared Studies of Star Formation in AGN hosts, invited talk, Galaxy Growth and Black Hole Evolution, Jerusalem, Israel, October 2012.

Lutz, D.: Star formation in high-z AGN hosts, invited talk, The Physics and Evolutions of Active Black Holes, Haifa, Israel, May 2012.

Lutz, D.: Studies of Galaxy Evolution with Herschel-PEP, invited talk, UK-Germany National Astronomy Meeting, Manchester, UK, March 2012.

Mitra, A.: Cold atmospheric plasma application on seed germination, contributed talk, Max-Planck, Ringberg, Germany, October 2012.

Mitra, A.: Effects of Cold Atmospheric Plasma (CAP) on macromolecular oxidation in two bacterial genera, contributed talk, International Conference on Antimicrobial Research, Lisbon, Portugal, November 2012.

Mitra, A.: Modeling of inactivation of surface borne microorganisms occurring on seeds by cold atmospheric plasma (CAP), contributed talk, 65th Annual Gaseous Electronics Conference, Austin, Texas, USA, October 2012.

Mitra, A.: Plasma medicine: non-thermal atmospheric plasma treatment for disinfection purposes, contributed talk, Helmholtz Research Center, Munich, Germany, December 2012.

Magnelli, B.: Dust temperature and CO-to-H2 conversion factor variations in the SFR-M* plane, contributed talk, EWASS 2012, Rome, Italy, July 2012.

Meidinger, N.: Design and performance of the eROSITA focal plane instrumentation, contributed talk, SPIE Astronomical Telescopes and Instrumentation, Amsterdam, The Netherlands, July 2012.

Meidinger, N.: Detector issues in MPE semiconductor laboratory, colloquium, XTP-Gravitas workshop, Beijing, China, October 2012.

Meidinger, N.: eROSITA / DUO CCDs - Time-Resolved Spectroscopy and Imaging of X-Rays, colloquium, CNES, Toulouse, France, January 2012.

Merloni, A.: 4MOST follow-up of eROSITA AGN, invited talk, Large Area Optical Spectroscopic Surveys: Science with 4MOST, Potsdam, Germany, November 2012.

Merloni, A.: AGN feedback in clusters of galaxies: M87 under the LOFAR microscope, contributed talk, Black Hole Universe 2012, Bamberg, Germany, June 2012.

Merloni, A.: Accreting SMBH in the COSMOS field: the connection to their host galaxies, contributed talk, X-ray Astronomy, the next 50 years, Milan, Italy, October 2012.

Merloni, A.: All-sky X-ray surveys with eROSITA: Clusters, AGN, active stars and more, colloquium, Albert Einstein Institute, Golm, Germany, November 2012.

Merloni, A.: All-sky X-ray surveys with eROSITA: Clusters, AGN, active stars and more, contributed talk, ESO workshop "Science from the Next Generation Imaging and Spectroscopic Surveys", Garching, Germany, October 2012.

Merloni, A.: Observational appearance of AGN, invited talk, ISSI Workshop on “The Physics of Accretion onto Black Holes", Bern, Switzerland, October 2012.

Merloni, A.: Observations of Astrophysical Black Holes, public talk, European Science Open Forum, Dublin, Ireland, July 2012.

Merloni, A.: Science with the eROSITA all-sky surveys: an outlook, invited talk, 13th Marcel Grossman Meeting, Stockholm, Sweden, July 2012.

Merloni, A.: eROSITA: Follow-up for Clusters and AGN Surveys, colloquium, NOAC, Beijing, China, February 2012.

Merloni, A.: eROSITA: Follow-up for Clusters and AGN Surveys, contributed talk, UK-Germany National Astronomy Meeting 2012, Manchester, UK, March 2012.

Modest, H.: Analysing CMB Surrogates with Minkowski Functionals and Scaling Indices, invited talk, 4th Alpine Cosmology Workshop, Mayrhofen, Austria, July 2012.

Modest, H.I.: Analysing CMB Surrogates with Minkowski Functionals and Scaling Indices, contributed talk, Inflationary Theory and its Confrontation with Data in the Planck Era, Aspen, USA, February 2012.

Monetti, R.: Application of anisotropic structure measures for the classification of micro-CT images of human trabecular bone, contributed talk, SPIE Medical Imaging, 2012, San Diego, USA, February 2012.

Monetti, R.: Information Measures to Characterize the Coupling Complexity between Dynamical System Components, contributed talk, 9th AIMS conference on Dynamical Systems, Differential Equations and Applications, Orlando, USA, July 2012.

Müller, T.: 162173 (1999 JU3): Constraining size, albedo, shape, thermal properties and spin-axis via thermophysical model techniques, invited talk, Hayabusa2 Joint Science Team (HJST) Meeting, Sagamihara, Japan, November 2012.

Müller, T.: Asteroid models for PACS and SPIRE calibration, invited talk, Herschel Calibration Workshop, Villafranca, Spain, January 2012.

Müller, T.: Faszination Sonnensystem: Vom Ursprung und Ende des Lebens, public talk, Gymnasium Bruckmühl, Germany, July 2012.

Müller, T.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, Engadiner Astronomie Freunde, Sternwarte ACADEMIA Samedan, Switzerland, February 2012.

Müller, T.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, Starkenburg Sternwarte, Heppenheim, Germany, October 2012.

Müller, T.: OSIRIS-REx target asteroid 10955 (1999 RQ36): Thermal shape and surface properties derived from Herschel, ESO-VISIR and Spitzer observations, contributed talk, Asteroids, Comets, Meteors (ACM) 2012, Niigata, Japan, May 2012.

Müller, T.: Thermophysical modelling of small bodies, contributed talk, International Space Science Institute, Bern, Switzerland, May 2012.

Nandra, K.: Athena: The Extremes of the Universe from Black Holes to Large Scale Structure, invited talk, MPE – ATHENA Germany Meeting, Garching, Germany, January 2012.

Nandra, K.: Athena: The Extremes of the Universe from Black Holes to Large Scale Structure, invited talk, Athena UK Meeting, Chicheley Hall, UK, January 2012.

Nandra, K.: Athena: The Extremes of the Universe from Black Holes to Large Scale Structure, invited talk, Athena France Meeting, IAP, Paris, France, February 2012.

Nandra, K.: Athena: The Extremes of the Universe from Black Holes to Large Scale Structure, invited talk, ESA Advisory Structure Meeting, ESA HQ, Paris, France, April 2012.

Nandra, K.: X-ray Spectra of AGN, invited talk, Energetic Astronomy, Annapolis, Maryland, USA, June 2012.

Nandra, K.: Athena: The Extremes of the Universe from Black Holes to Large Scale Structure, invited talk, SPIE Astronomical Telescopes and Instrumentation, Amsterdam, The Netherlands, July 2012.

Nandra, K.: Athena: The Extremes of the Universe from Black Holes to Large Scale Structure, invited talk, X-ray Astronomy, the next 50 years, Milano, Italy, October 2012.

Nandra, K.: Athena: The Extremes of the Universe from Black Holes to Large Scale Structure, invited talk, Quantum to Cosmos, Bensberg, Germany, October 2012.

Nandra, K.: Understanding Accretion with the Next Generation of X-ray Observatories, Feeding Compact Objects: Accretion on all Scales, invited talk, IAU Symposium 290, Beijing, China, August 2012.

Nandra, K.: Future X-ray Telescopes, Future Large Scale Facilities, invited talk, IAU General Assembly, Beijing, China, August 2012.

Nandra, K.: eROSITA aboard SPectrum-RG, Half a Century of X-ray Astronomy, invited talk, Mykonos, Greece, September 2012.

Nandra, K.: X-ray Spectra of AGN: Current Status and Future Prospects, invited talk, Half a Century of X-ray Astronomy, Mykonos, Greece, September 2012.

Nandra, K.: Future Perspectives in X-ray Astronomy, invited talk, MPG/CAS Exploratory Round Table Conference on Space Science, Shanghai, China, November 2012.

Nandra, K.: Illuminating the Galaxy-AGN Connection: Introduction, invited talk, Illuminating the Galaxy-AGN Connection, Ringberg, Germany, December 2012.

Nandra, K.: Illuminating the Galaxy-AGN Connection: Closing Remarks, invited talk, Illuminating the Galaxy-AGN Connection, Ringberg, Germany, December 2012.

Nosenko, V.: Liquid complex plasmas in laboratory experiments, invited talk, 39th EPS Conference on Plasma Physics, Stockholm, Sweden, July 2012.

Orban de Xivry, G.: Secular evolution in NLS1 galaxies and the growth of their black holes, contributed talk, Nuclei of Seyfert galaxies and QSOs, Central engine and conditions of star formation, Bonn, Germany, November 2012.

Paardekooper, J.-P.: Simulating the sources of reionisation with SimpleX, contributed talk, Cosmological radiative transfer comparison project workshop IV, Austin, USA, December 2012.

Paardekooper, J.-P.: The contribution of stars in galaxies to cosmic reionisation, contributed talk, The Epoch of Reionization: Theory - Simulations - Observations, Strasbourg, France, April 2012.

Paardekooper, J.-P.: The sources of cosmic reionisation, colloquium, Los Alamos National Labs, Los Alamos, USA, December 2012.

Paschmann, G.: In-Situ Observations of Reconnection in Space: Global Properties, invited talk, ISSI Workshop on Microphysics of Cosmic Plasmas, Bern, April 2012.

Pietsch, W.: Population studies of X-ray sources in Local Group galaxies, invited talk, 13th Marcel Grossman Meeting, Stockholm, Sweden, July 2012.

Poglitsch, A.: Infrared Space Astronomy, invited talk, 3nd Exploratory Round Table Conference on Space Science Research/Satellite based Scientific Exploration / Shanghai Institute for Advanced Studies, Shanghai, China, November 2012.

Porro, M.: Development of the DEPFET Sensor with Signal Compression: a Large Format X-ray Imager with Mega-Frame Readout Capability for the European XFEL, contributed talk, Frontier Detectors for Frontier Physics, 12th Pisa meeting on advanced detectors, Isola d'Elba, Italy, May 2012.

Porro, M.: Development of the DEPFET Sensor with Signal Compression: a Large Format X-ray Imager with Mega-Frame Readout Capability for the European XFEL, invited talk, Advanced Instrumentation Seminars, SLAC National Accelerator Laboratory, Menlo Park, USA, October 2012.

Porro, M.: Development of the DEPFET Sensor with Signal Compression: a Large Format X-ray Imager with Mega-Frame Readout Capability for the European XFEL, invited talk, the 11th International Conference on Synchrotron Radiation Instrumentation, X-ray Detectors for Synchrotron Application, SRI satellite workshop, Zürich, Switzerland, July 2012.

Porro, M.: Milestone Achievements in the Development of the DEPFET Sensor with Signal Compression for the European XFEL, contributed talk, IEEE Nuclear Science Symposium 2012, Anaheim, USA, November 2012.

Predehl, P.: Raum und Zeit, public talk, Brucker Forum, Germering, Germany, October 2012.

Predehl, P.: The eROSITA Mission, invited talk, X-ray Astronomy: towards the next 50 years, Milan, Italy, October 2012.

Predehl, P.: The eROSITA Mission, invited talk, From Quantum to Cosmos V, Bergisch-Gladbach, Germany, October 2012.

Predehl, P.: eROSITA on Spectrum-Rentgen-Gamma (SRG), colloquium, Chinese Academy of Science, Bejing, China, February 2012.

Predehl, P.: eROSITA - Auf der Jagd nach der Dunklen Energie, public talk, Planetarium Hamburg, Germany, April 2012.

Predehl, P.: eROSITA - Instrument & Science – an Overview, invited talk, X-ray sky: from stars and black holes to cosmology, Kazan, Russia, September 2012.

Predehl, P.: eROSITA - Status, colloquium, eROSITA Consortium Meeting, Hamburg, Germany, July 2012.

Predehl, P.: eROSITA, contributed talk, SPIE Conference on "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray", Amsterdam, Netherlands, July 2012.

Prinz, T.: A Search for X-ray Counterparts of Radio Pulsars - Implications for NS cooling, contributed talk, second BONN workshop on - Formation and Evolution of Neutron Stars, Bonn, Germany, October 2012.

Raeth, C.: Imaging bone structures with bright and dark field CT: Identification of trabecular and subtrabecular alignment, colloquium, TUM, Munich, Germany, May 2012.

Raeth, C.: Revisiting algorithms for generating surrogate time series, contributed talk, XXXII. Dynamics Days, Gothenburgh, Sweden, September 2012.

Raeth, C.: Scale-dependent phase correlations in the WMAP data and non-Gaussianities of the local type, contributed talk, Inflationary Theory and its Confrontation with Data in the PLANCK Era, Aspen, USA, February 2012.

Raeth, C.: Similarities and differences in the mass-structure scaling relations of the trabecular bone taken from different locations in the femur, colloquium, UCSF, San Francisco, USA, February 2012.

Raeth, C.: Similarities and differences in the mass-structure scaling relations of the trabecular bone taken from different locations in the femur, contributed talk, SPIE conference on Medical Imaging, San Diego, USA, February 2012.

Raeth, C.: String Formation in 3D Particle Clusters in Complex Plasmas, contributed talk, ICOPS 2012, Edinburgh, UK, July 2012.

Raeth, C.: String Structures in Driven 3D Complex Plasma Clusters, invited talk, Plasmakristall-Symposium, Ringberg, Germany, October 2012.

Raeth, C.: Surrogates and the CMB, invited talk, 4th Alpine Cosmology Workshop, Mayrhofen, Austria, July 2012.

Rau, A.: HTRA and X-rays, contributed talk, 2012 HTRA Autumn Meeting, Lindau, Germany, October 2012.

Rau, A: GROND - an optical/NIR 7-channel imager: capabilities for follow-up of compact objects detected by eROSITA, contributed talk, eROSITA Consortium Meeting, Hamburg, Germany, July 2012.

Rossmanith, G.: Using the Method of Surrogates for analysing the CMB sky, invited talk, 4th Alpine Cosmology Workshop, Mayrhofen, Austria, July 2012.

Saglia, R.P.: The photometric classification server for Pan-STARRS1, invited talk, PanSTARRS Conference, Honolulu, USA, January 2012.

Saglia, R.P: Planets from the WTS/RoPACS projects, contributed talk, Planet formation and evolution Conference, Munich, Germany, September 2012.

Saha, K.: Rotation of classical bulges during secular evolution of barred galaxies, contributed talk, Galaxy Evolution Through Secular Processes, Special Session 3, IAU General Assembly, Beijing, China, August 2012.

Saintonge, A.: Cold gas as a probe of galaxy evolution, colloquium, General astrophysics seminar, Saclay, France, December 2012.

Saintonge, A.: Galaxy and black hole evolution in the local universe: the COLD GASS perspective, invited talk, Galaxy and black hole evolution at high redshift, Jerusalem, Israel, October 2012.

Saintonge, A.: Molecular gas and star formation in massive galaxies, invited talk, IAU General Assembly, Symposium "Molecular gas, dust and star formation", Beijing, China, August 2012.

Saintonge, A.: Star formation efficiencies across the galaxy population, invited talk, Disc galaxy formation in a cosmological context, Heidelberg, Germany, May 2012.

Saintonge, A.: Star formation efficiencies across the galaxy population, invited talk, Lorentz Center workshop "The dynamic nature of baryons in halos", Leiden, Netherlands, August 2012.

Salazar, S.: Clustering Tomography: Measuring distances through angular correlation functions, contributed talk, Sixth TRR33 Winter School, Passo del Tonale, Italy, December 2012.

Salvato, M.: Dissecting Photo-z for AGN: Lesson from XMM- and Chandra- COSMOS, contributed talk, CANDELS meeting, Austin, Texas, USA, January 2012.

Salvato, M.: Hunting for AGN, invited talk, ESO-AGN club, Munich, Germany, May 2012.

Salvato, M.: Photo-z for AGN and variability in COSMOS, contributed talk, COSMOS meeting, Washington, USA, June 2012.

Salvato, M.: Photometric redshifts for AGN: Recipe and ingredients, invited talk, CANDELS meeting, Santa Cruz, California, USA, September 2012.

Salvato, M.: Photometric redshifts for radio selected sources, invited talk, EMU workshop, Sydney, Australia, May 2012.

Salvato, M.: Photomwtric redshifts and added values for eROSITA AGN, contributed talk, X-ray sky: from stars and black holes to cosmology, Kazan, Russia, September 2012.

Salvato, M.: eROSITA, invited talk, SPARC meeting, Sydney, Australia, May 2012.

Salvato, M.: eROSITA- AGN follow-up, contributed talk, eROSIITA meeting, Hamburg, Germany, July 2012.

Salvato, M: Dissecting Photo-z for AGN: Lesson from XMM- and Chandra- COSMOS, invited talk, COSMOS-AGN workshop, Kashiwa, Japan, February 2012.

Sanchez, A.G.: Cosmological constraints from the full shape of xi(s), contributed talk, BOSS collaboration meeting 2012, New York, USA, January 2012.

Sanchez, A.G.: Cosmological constraints from the large-scale galaxy clustering in BOSS, invited talk, UK-Germany National Astronomy Meeting NAM2012, Manchester, UK, March 2012.

Sanchez, A.G.: Cosmological implications of the galaxy clustering in BOSS, invited talk, MPA-IFT2012 Workshop on LSS, Madrid, Spain, April 2012.

Sanchez, A.G.: Cosmological implications of the large-scale clustering wedges, contributed talk, Pittsburg BOSS collaboration meeting, Pittsburg, USA, December 2012.

Sanchez, A.G.: Cosmology with the Sloan Digital Sky Survey, invited talk, XXVI Rencontres de Physique de La Vallée d'Aoste, La Thuile, Italy, January 2012.

Sanchez, A.G.: Precision cosmology and the large-scale structure of the Universe, colloquium, Argelander Institute for Astronomy, Bonn, Germany, October 2012.

Sanchez, A.G.: Precision cosmology and the large-scale structure of the Universe, invited talk, Technische Universität München, Garching, Germany, September 2012.

Sanchez, A.G.: The Baryon Oscillation Spectroscopic Survey (BOSS): precision cosmology from the cosmic large-scale structure, invited talk, Universe Cluster's Science Week, Garching, Germany, December 2012.

Sanchez, A.G: Precision Cosmology from large-scale structure observations, invited talk, VIII International Workshop on the Dark Side of the Universe, Buzios, Brazil, June 2012.

Sanders, J.S.: AGN feedback in galaxy clusters, invited talk, Illuminating the Galaxy-AGN Connection: Theoretical Modeling and Observational Signatures, Ringberg, Germany, December 2012.

Sanders, J.S.: Feedback and velocities in the intracluster medium, invited talk, Galaxy Cluster Cosmology in the Real and Simulated Universe, Ringberg, Germany, November 2012.

Schartmann, M.: Simulations of the GC cloud G2, invited talk, Galaxy and black hole evolution at high redshift, Jerusalem, Israel, October 2012.

Schartmann, M.: Simulations of the Origin and Fate of the GC Cloud G2, contributed talk, General Meeting of the Astronomical Society, ISM Splinter Session, Hamburg, Germany, September 2012.

Schartmann, M.: Simulations of the Origin and Fate of the GC cloud G2, contributed talk, Nuclei of Seyfert Galaxies and QSOs, Bonn, Germany, November 2012.

Schartmann, M.: Towards a Physical Model of AGN Tori, invited talk, AGN Torus Workshop 2012, San Antonio, USA, December 2012.

Schwabe, M.: Apparent surface tension in complex plasmas, contributed talk, 39th IEEE International Conference on Plasma Science, Edinburgh, UK July 2012.

Schwabe, M.: Complex plasma experiments with the PK-3

Plus Laboratory on board the International Space Station, contributed talk, Next-Generation Suborbital Researchers Conference, Palo Alto, USA, February 2012.

Schwabe, M.: Crystallization fronts in a three-dimensional complex plasma, contributed talk, 13th Workshop on the Physics of Dusty Plasmas, Waco, USA, May 2012.

Shimizu, T.: Cold Atmospheric Plasma Production Using Venturi Effect, contributed talk, 2012 MRS (Material Research Society) Spring Meeting, San Francisco, USA, April 2012.

Shimizu, T.: Cold Atmospheric Plasma for Skin Treatment, invited talk, Ninth International Conference on Flow Dynamics, Sendai, Japan, September 2012.

Shimizu, T.: Cold Atmospheric Plasma for Wound Treatment using Argon Plasma Torch, invited talk, The 2nd International Symposium for Plasma Biosciences, Seoul, South Korea, August 2012.

Shimizu, T.: Non-Thermal Plasma at Atmosphere for Medicine and Hygiene, invited talk, 34th International Symposium on Dry Process, Tokyo, Japan, November 2012.

Shimizu, T.: Role of reactive species for bactericidal effect in air surface micro-discharge plasma, invited talk, 4th International Conference on Plasma Medicine, Orléans, France, June 2012.

Skinner, G.K.: The 511 keV sky as seen by INTEGRAL/SPI, CGRO/OSSE, SMM/GRS and WIND/TGRS combined, contributed talk, The 9th INTEGRAL Workshop "An INTEGRAL view of the high-energy sky - the first 10 years", Paris, France, October 2012

Strong, A.W.: Cosmic-ray propagation, invited talk, Helmholtz Alliance for Astroparticle Physics Theory Meeting, Hamburg, Germany, February 2012.

Strong, A.W.: Synchrotron: exploiting the high-energy astrophysics connection, invited talk, Workshop on Polarized CMB Foregrounds, Munich, Germany, November 2012.

Strong, A.W.: microeV to TeV emission from cosmic rays in the Galaxy, invited talk, 9th INTEGRAL Symposium, Paris, France, October 2012.

Strong, A.W.: microeV to TeV emission from cosmic rays in the Galaxy, invited talk, Searching for the sources of Galactic cosmic rays, Paris, France, December 2012.

Sturm, E.: CO and CII as tracers of (molecular) galactic winds, invited talk, Galactic Winds of Change - Confronting Models with Observations, Sexten, Italy, July 2012.

Sturm, E.: Extragalactic CO Observations and their Interpretation, invited talk, Exciting CO in the Local and High-Redshift Universe, Leiden, Netherlands, February 2012.

Sturm, E.: Galaxienstürme im infraroten Universum, public talk, Café & Kosmos, Munich, Germany, November 2012.

Sturm, E.: Galaxy evolution as seen by Herschel/SHINING, colloquium, Joint Colloquium of the Kapteyn Institute and SRON Groningnen, Groningen, Netherlands, May 2012.

Sturm, E.: Massive molecular outflows and negative feedback in ULIRGs, colloquium, Colloquium of the Cambridge Institute of Astronomy, Cambridge, UK, February 2012.

Sturm, E.: Massive molecular outflows and negative feedback in active galaxies, colloquium, ESA/ESTEC RSSD Seminar, Noordwijk, The Netherlands, March 2012.

Sturm, E.: Recent Herschel-PACS results from extragalactic molecular spectroscopy, invited talk, SPICA-SAFARI Conference, Leuven, Belgium, September 2012.

Sturm, E.: SHINING (Herschel/PACS) Results on the Astro-Chemistry in Nearby Galaxies, invited talk, EWASS 2012 - Symposium 1 Molecular gas in high redshift galaxies, Rome, Italy, July 2012.

Tacconi, L.J.: Galaxy Assembly and Star Formation in the Early Universe, invited talk, Symmetries and Phases in the Universe, Kloster Irsee, Germany, February 2012.

Tacconi, L.J.: Galaxy Evolution with ALMA, invited talk, First Year of ALMA Science, Puerto Varas, Chile, December 2012.

Tacconi, L.J.: Gas Dynamics, Galaxy Assembly and Star Formation in the Early Universe, colloquium, Zürich Physics Colloquium, ETH, Zürich, Switzerland, September 2012.

Tacconi, L.J.: Gas and Star Formation at High-z, invited talk, Gas, Stars & Black Holes in the Galaxy Ecosystems, Leiden, The Netherlands, July 2012.

Tacconi, L.J.: Mapping the Fuel for Star Formation in Early Universe Galaxies, invited talk, American Astronomical Winter Meeting, Lancelot M. Berkeley Prize Lecture, Austin, Texas, USA, January 2012.

Tacconi, L.J.: Molecular Gas Fractions and Star Formation Relations in High-z Galaxies, invited talk, European Week of Astronomy and Space Science, Symposium on Gas in High Redshift Galaxies, Rome, Italy, July 2012.

Tacconi, L.J.: Molecular Gas and Scaling Relations in z=1-2 Star Forming Galaxies, invited talk, 2012 Santa Cruz Galaxy Workshop, Santa Cruz, California, USA, August 2012.

Tacconi, L.J.: PHIBSS: Molecular Gas and Scaling Relations in z=1-2 Star Forming Galaxies, invited talk, Galaxy and Black Hole Evolution at High-z, Hebrew University, Jerusalem, Israel, October 2012.

Tacconi, L.J.: Tracking Star Formation at the Peak Epoch of Galaxy Formation, invited talk, ESO@50 - the first 50 years of ESO, Garching, Germany, September 2012.

Taghizadeh, L.: A Plasma-Chemical 0D Model for Non-thermal Atmospheric Pressure Plasma Jet, contributed talk, The 39th IEEE International Conference on Plasma Science (ICOPS), Edinburgh, UK, July 2012.

Taghizadeh, L.: Characterization and Simulation of Plasma Chemistry Produced by Surface Micro Discharge, contributed talk, 4th International Conference on Plasma Medicine, Orléans, France, June 2012.

Taghizadeh, L.: The lethal effect of electric field produced by surface micro-discharge plasma, contributed talk, 1st Young Professionals Workshop on Plasma Medicine, Boltenhagen, Germany, September 2012.

Thoma, M.H.: The PK-4 Project: Complex Plasma Micro-

gravity Experiments in a DC Discharge, contributed talk, 39th European Physical Society Conference on Plasma Physics, 16th International Congress on Plasma Physics, Stockholm, Sweden, July 2012.

Thoma, M.H.: The PK-4 Project: Complex Plasma Microgravity Experiments in a DC Discharge, contributed talk, 39th IEEE International Conference on Plasma Science, Edinburgh, UK, July 2012.

Thoma, M.H.: The PK-4 Project: Complex Plasma Microgravity Experiments in a DC Discharge, contributed talk, 5th China-Germany Workshop on Microgravity and Space Life Sciences, Rottach-Egern, Germany, September 2012.

Thoma, M.H.: The PK-4 Project: Complex Plasmas in Space - The Next Generation, invited talk, Justus-Liebig-Universität Giessen, Giessen, Germany, June 2012.

Thomas, H.M.: 11 Years of Plasma Crystal Research on the International Space Station, invited talk, 5th China-Germany Workshop on Microgravity and Space Life Sciences, Tegernsee, Germany, Sept. 2012.

Thomas, H.M.: Complex Plasma – Complementary Research in the Laboratory and on the International Space Station, invited talk, From quantum to cosmos conference 5, Bensberg, Germany, October 2012.

Thomas, H.M.: Multifacets of Complex (Dusty) Plasmas, invited talk, International Conference on Complex Processes in Plasmas and Nonlinear Dynamical Systems, Gandhinagar, India, November 2012.

Thomas, H.M.: Overview of recent and future complex plasma research on the International Space Station, contributed talk, 13th Workshop on the Physics of Dusty Plasma, Waco, Texas, USA, May 2012.

Trümper, J.: 50 Jahre Röntgenastronomie, invited talk, Akademische Feier der Fakultät für Physik und Astronomie, Würzburg, Germany, December 2012.

Trümper, J.: Arnulf Schlüter, invited talk, Gedenkveranstaltung der Bayerischen Akademie der Wissenschaften, Munich, Germany, November 2012.

Trümper, J.: Constraining the equation of state matter using neutron star observations, invited talk, Physik-Seminar, TU München, Munich, Germany, April 2012.

Trümper, J.: Constraining the equation of state of matter using neutron star observations, colloquium, Symposium "Symmetries and Phases in the Universe" 2012, Kloster Irsee, Germany, February 2012.

Trümper, J.: Gefahren aus dem All - Asteroiden und ausgediente Satelliten, invited talk, Mittwochskreis im IBZ, Munich, Germany, September 2012.

Trümper, J.: Hochenergetische Teilchen und Röntgenstrahlung aus dem Kosmos, invited talk, Gedenkveranstaltung "100 Jahre Prof. Dr. Erich Bagge", Christian-Albrechts-Universität, Kiel, Germany, May 2012.

Trümper, J.: Lessons learned from ROSAT, invited talk, Conference "Science with eROSITA and ART-XC aboard Spectrum-RG", Kasan, Russia, September 2012.

Trümper, J.: The Extreme Physical Properties of Neutron Stars, invited talk, Fakultät für Mathematik und Physik, Albert-Ludwigs-Universität Freiburg, Freiburg, Germany, January 2012.

Trümper, J.: The History of X-Ray Astronomy in Germany, invited talk, Conference on "X-ray Astronomy: Towards the next 50 years!", Milano, Italy, October 2012.

Trümper, J.: The Sky in X-Rays - Discoveries and Highlights from ROSAT, invited talk, DPG-AEF-Tagung, Stuttgart, Germany, March 2012.

Trümper, J.: The Sky in X-Rays, colloquium, "100 Jahre Max-von-Laue Experiment", LMU München, Munich, Germany, April 2012.

Trümper, J.: The quiescent emission of AXPs and SGRs - powered by accretion from a fallback disk, invited talk, 13th Marcel Grossman Meeting, Stockholm, Sweden, July 2012.

Trümper, J.: Welcome Remarks, invited talk, The Gamma-Ray Bursts 2012 Conference (GRB 2012), Munich, Germany, May 2012.

Vilenius, E.: TNOs are Cool: Analysis of Classical Kuiper Belt Objects from Herschel Space Observatory Data, contributed talk, American Astronomical Society / Department of Planetary Science, Reno, USA, October 2012.

Weidenspointner, G.: Precision Analysis of Electron Energy Deposition in Detectors Simulated by Geant4, contributed talk, IEEE NSS-MIC conference, Anaheim, USA, November 2012.

Wilman, D.J.: The Hierarchical Origin of Observed Galaxy Morphology, invited talk, Pontificia Universidad Catolica de Chile, Santiago, Chile, January 2012.

Wuyts, S.: A Resolved View on Galaxies at Cosmic Noon, colloquium, ETH Zürich, Switzerland, March 2012.

Wuyts, S.: A Resolved View on Stellar Populations at Cosmic Noon, colloquium, Galaxies Insight Out, Leiden, The Netherlands, June 2012.

Wuyts, S.: A Resolved View on Stellar Populations at Cosmic Noon, colloquium, University of California Santa Cruz Galaxy Formation Workshop, Santa Cruz, USA, August 2012.

Wuyts, S.: A Resolved View on Stellar Populations at Cosmic Noon, contributed talk, IAP-Subaru Conference: Stellar Populations across Cosmic Times, Paris, France, June 2012.

Wuyts, S.: Galaxy Growth: Structure and Stellar Populations, invited talk, Galaxy and Black Hole Evolution at High Redshift, Jerusalem, Israel, October 2012.

Wuyts, S.: Kinematics and Structure of Galaxies at Cosmic Noon, invited talk, IAU295: The Intriguing Life of Massive Galaxies, Beijing, China, August 2012.

Wuyts, S.: Smooth(er) Stellar Mass Maps in CANDELS: Constraints on the Longevity of Clumps in High-redshift Star-forming Galaxies, contributed talk, Oort Workshop, Leiden, The Netherlands, May 2012.

Wörner, L.: Effect of a clearing field on the residual particle charge in the plasma afterglow, contributed talk, 13th workshop on the physics of dusty plasmas, Waco, USA, 23. May 2012.

Wörner, L.: Growth of nanometer sized particles in a DC Discharge, contributed talk, 39th IEEE International Conference on Plasma Science, Edinburgh, UK, 9. July 2012.

Yaroshenko, V.V.: Effect of discharge electric fields on dust density waves, contributed talk, 39 EPS Conference, Stockholm, Sweden, July, 2012.

van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, Astronomical Institute, University,, Amsterdam, The Netherlands, October 2012.

van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, Institute for Molecules and Materials, Nijmegen, The Netherlands, April 2012.

van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, USM, Munich, Germany, January 2012.

van Dishoeck, E.F.: Acetylene observations of protostars and disks, invited talk, Fase molecular spectroscopy symposium, Brussel, Belgium, May 2012.

van Dishoeck, E.F.: Astrochemistry in star- and planet-forming regions: from Herschel to ALMA, invited talk, Physics and chemistry of the interstellar medium meeting, Paris, France, November 2012.

van Dishoeck, E.F.: Astrochemistry: from diffuse clouds to protoplanetary disks, colloquium, The first 50 years at ESO conference, Garching, Germany, September 2012.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Physikalisches Institut, Cologne, Germany, October 2012.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Technical University, Eindhoven, The Netherlands, October 2012.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, University lecture, Cornell University, Ithaca, USA, March 2012.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, public talk, Public lecture, Tokyo, Japan, December 2012.

van Dishoeck, E.F.: CO and water in star-forming regions with Herschel, invited talk, Exciting CO in the local and high-redshift Universe conference, Leiden, The Netherlands, February 2012.

van Dishoeck, E.F.: From ISM to comets, invited talk, Europlanet Rosetta workshop, London, UK, April 2012.

van Dishoeck, E.F.: Laboratory astrophysics as key to understanding the Universe: Kavli plenary lecture, invited talk, 220'th American Astronomical Society meeting, Anchorage, USA, June 2012.

van Dishoeck, E.F.: Molecular processes between the stars, colloquium, Dalian Institute for Chemical Physics, Dalian, China, August 2012.

van Dishoeck, E.F.: Molecular processes in space: from interstellar clouds to planets, invited talk, European conference on Dynamics of molecular systems (MOLEC12), Oxford, UK, September 2012.

van Dishoeck, E.F.: New trends in astrochemistry in the ALMA era, invited talk, New trends in radio astronomy in the ALMA era, Hakone, Japan, December 2012.

van Dishoeck, E.F.: Star and planet formation across the Universe with Herschel, colloquium, European week of astronomy and space sciences (EWASS12), Rome, Italy, July 2012.

van Dishoeck, E.F.: Sweet results from ALMA, colloquium, Joint ALMA Office, Santiago, Chile, December 2012.

van Dishoeck, E.F.: Sweet results from ALMA, colloquium, Paranal Observatory, Paranal, Chile, December 2012.

van Dishoeck, E.F.: VLT-CRIRES survey of protostars and disks around T Tauri stars: from physics to chemistry, colloquium, ETH-Zurich, Zurich, Switzerland, January 2012.

van Dishoeck, E.F.: WISH: recent results and emerging trends, contributed talk, From atoms to pebbles: Herschel's view on star and planet formation, Grenoble, France, March 2012.

van Dishoeck, E.F.: Water and organic molecules with Herschel and ALMA: examples of recent laboratory needs, contributed talk, IAU GA Commission 14 Atomic and molecular data meeting, Beijing, China, August 2012.

van Dishoeck, E.F.: Water chemistry: hot and cold, contributed talk, Early Phases of Star Formation, Ringberg, Germany, July 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disk, colloquium, Cornell University, Ithaca, USA, March 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disk, colloquium, Greenstein lecture, California Institute for Technology, Pasadena, USA, April 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disk, colloquium, Kavli Institute, Beijing, China, August 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disk, colloquium, Museum of Natural History, University, Copenhagen, Denmark, May 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disk, colloquium, University of California, Santa Cruz, USA, April 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disk, colloquium, University of Heidelberg, Heidelberg, Germany, January 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disk, colloquium, University of Lund, Lund, Denmark, May 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disks, colloquium, Institut fur Astrophysik, Göttingen, Germany, November 2012.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planets, invited talk, Kavli astrophysics symposium, Oslo, Norway, September 2012.

Habilitationen

Ivlev A.V.: Interdisciplinary Complex Plasma Research. Heinrich-Heine-Universität Düsseldorf 2011.

Krause, M.G.H.: Theory of Galactic Outflows. Ludwig-Maximilians-Universität München 2012.

Dissertationen

Buschkamp, P.: The LUCIFER multi-object spectroscopy unit and Line excitation, metallicity, and dust extinction in massive star-forming galaxies at high redshift. Ludwig-Maximilians-Universität München 2012.

Connelly, J.L.: Optically and X-ray selected galaxy groups at intermediate redshift. Ludwig-Maximilians-Universität München 2012.

Du, C.D.: Nonequilibrium phase transition in binary complex plasmas. Ludwig-Maximilians-Universität München 2012.

Fabricius, M.H.: Kinematics Across Bulge Types A Long-slit Kinematic Survey and Dedicated Instrumentation. Ludwig-Maximilians-Universität München 2012.

Fürmetz, M.: Design, development and verification of the eROSITA thermal control system. Technische Universität München 2012.

Granato, S.: The response of silicon PNCCD sensors with aluminum on-chip filter to visible light, UV- and X-ray radiation. Universität Siegen 2012.

Morganti, L.: Made-to-measure particle models of intermediate-luminosity elliptical galaxies: regularization, parameter estimation, and the dark halo of NGC 4494. Ludwig-Maximilians-Universität München 2012.

Pfuhl, O.: The GRAVITY interferometer and the Milky Way's Nuclear Star Cluster. Ludwig-Maximilians-Universität München 2012.

Rusli, S.: Central black holes in massive early-type galaxies. Ludwig-Maximilians-Universität München 2012.

Schmaler, G.: Characterisation of PNCCDs and Analysis of Pixel Defects. Technische Universität München 2012.

Sturm, R.: An X-ray investigation of the Small Magellanic Cloud with XMM-Newton. Technische Universität München 2012.

Wörner, L.: Tuning of the Interaction Potential in Complex Plasmas. Ludwig-Maximilians-Universität München, Université d'Orléans, France 2012.

Ziparo, FZ: The role of environment and merging activity in the star formation up to z~1.6. Ludwig-Maximilians-Universität München 2012.

Diplomarbeiten

Schlee, S.A.S.: Calibration of a novel, non-linear DePFET pixel in a prototype sensor setup for the European XFEL. Ludwig-Maximilians-Universität München 2012.

Masterarbeiten

Kodric, M.: Cepheids in the Pan-STARRS 1 survey of M 31 (PAndromeda). Ludwig-Maximilians-Universität München 2012.

Kretschmann, S.: The search for planets around white dwarfs, variables and eclipsing binaries in the Pan-Planets fields. 2012.

Lippa, M.: The Metrology System of the VLTI Instrument GRAVITY. Ludwig-Maximilians-Universität München 2012.

Obermeier, C.: The search for extrasolar planets with Pan-Planets. Ludwig-Maximilians-Universität München 2012.

Wullstein, P.W.: Window Function of the Hobby-Eberly Telescope Dark Energy Experiment. Ludwig-Maximilians-Universität München 2012.

Bachelorarbeiten

Kim, A.: Optimierung einer Variable Conductance Heatpipe (VCHP) für das eROSITA Teleskop. Technische Universität München 2012.

Plewa, P.M.: Stabilität klumpiger AGN Tori. MPE/Ludwig-Maximilians-Universität München 2012.

Schachtner, B.: Mass determination of supermassive black holes in centers of galaxies. Ludwig-Maximilians-Universität München 2012.

Bücher / Beiträge in Büchern

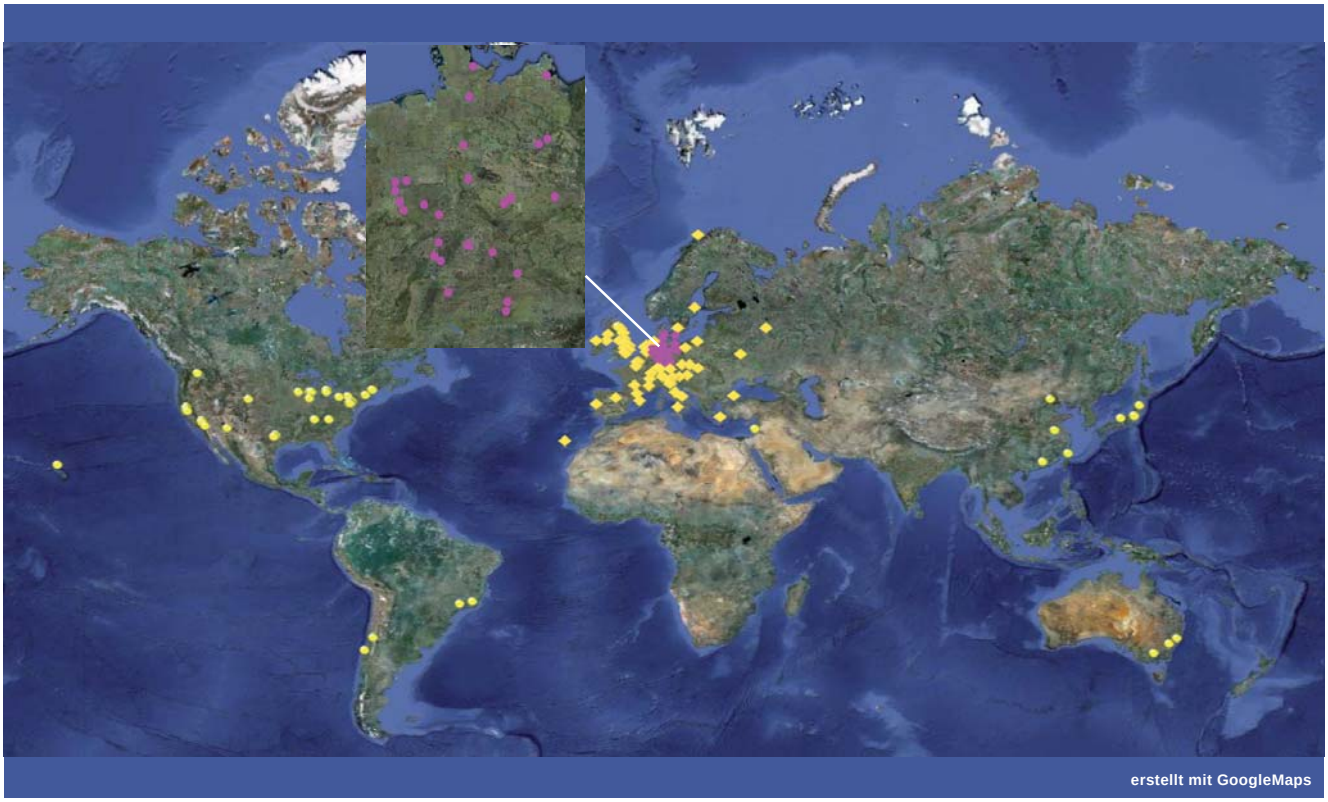
Greiner, J. and A. Rau (Eds.): GRB 2012 - Gamma-Ray Bursts 2012 Conference. Proceedings of Science, 2012.

Ivlev, A.V., H. Löwen, G.E. Morfill and C.P. Royall (Eds.): Complex Plasmas and Colloidal Dispersions: Particle-Resolved Studies of Classical Liquids and Solids. World Scientific Pub Co, Singapore 2012, 320 p.

Raeth, C., I. Sidorenko, R. Monetti, R. Monetti, T. Baum, M. Matsuura, P. Zysset and F. Eckstein: Simulating bone atrophy and its effects on the structure and stability of the bone, Osteoporosis.(Ed.) Y. Dionyssiotis. INTECH, Rijeka, 695-710 (2012).

Kollaborationen / Wissenstransfer

Wissenschaftliche Kollaborationen nach Ländern



Australien

Australian National University: Galaxienentstehung.

Monash University: Nukleare Astrophysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

Belgien

CSL Liège, Katholieke Universiteit Leuven: Herschel-PACS; INTEGRAL-Spectrometer SPI; SPICA-SAFARI.

Brasilien

Universidad de Sao Paulo: Galaxienentstehung.

Observatorio Nacional: DES.

Centro Brasileiro de Pesquisas: DES.

Universidade Federal do Rio: DES.

Chile

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme.

China

Institute for High-Energy Physics (IHEP), Peking: AGN und unidentifizierte Gammaquellen von COMPTEL und INTEGRAL.

Institute for Plasma Physics, Hefei: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

University of Hongkong: Strahlungsmechanismen von Pulsaren vom Röntgen bis zum Gammabereich.

Deutschland

Astrophysikalisches Institut Potsdam: eROSITA; XMM-Newton; GAVO; OPTIMA; ARGOS; HETDEX.

Christian-Albrechts-Universität, Kiel: komplexe Plasmen.

Dept. Earth and Environmental Sciences of the Ludwig-Maximilians-Universität, Munich: Raman Spectroscopy.

Department of Neuropathology, Technical University Munich: Raman Spectroscopy, Plasma Medicine.

DLR-Köln Porz: Plasmakristall Experiment; PK-3 Plus; Rosetta Lander (ROLAND); Plasma-Dekontamination.

European Southern Observatory (ESO), Garching: KMOS Multiobjekt-Spectrograph für VLT; GRAVITY; Galaxienentstehung; Nukleare Astrophysik; MICADO; ERIS.

Fraunhofer Institut für Mikroelektronische Schaltungen und Systeme, Duisburg: Mikroelektronikentwicklungen; CAMEX; JFET-CMOS Prozessor; Athena; eROSITA.

Institut für Astrophysik Göttingen: MICADO.

Institute of Experimental Oncology, Technical University Munich: Plasma Medicine.

Institut für Festkörperphysik und Werkstoff-Forschung, Dresden: Entwicklung weichmagnetischer Werkstoffe.

Institut für Astronomie und Astrophysik Tübingen (IAAT):

XMM-Newton; eROSITA.

Klinik für Dermatologie, Allergologie und Umweltmedizin, Krankenhaus München Schwabing: Plasmamedizin.

Landessternwarte Heidelberg-Königstuhl: Nahinfrarotspektrograph LUCI für LBT; Galaxienentstehung, ARGOS.

Laser Zentrum Hannover: Development of advanced Filters for MICADO.

Leibniz Supercomputing Centre of the Bavarian Academy of Sciences and Humanities, Garching b. München: Label free imaging and Pattern Recognition.

Ludwig-Maximilians-Universität, München: KMOS; MICADO; HETDEX; Plasmamedizin.

Maier-Leibnitz Laboratorium, Garching: eROSITA.

Max-Planck-Institut für Astronomie, Heidelberg: GRAVITY; LUCI; Herschel-PACS; PanSTARRS, SDSS, ARGOS, MICADO; EUCLID.

Max-Planck-Institut für Astrophysik, Garching: GAVO; SDSS; OPTIMA; eROSITA.

Max-Planck-Institut für Physik, Werner Heisenberg Institut, München: MPI Halbleiterlabor, Entwicklung von CCDs; Active Pixeldetektoren (APS); JFET-Elektronik für den Röntgenbereich; CAST; eROSITA.

Max-Planck-Institut für Kernphysik: CFEL.

Max-Planck-Institut für Biomedizinische Forschung: CFEL.

Max-Planck-Institut für Komplexe Systeme, Fritz-Haber-Institut: CFEL.

Max-Planck-Institut für Biophysische Chemie: CFEL.

Max-Planck-Institut für Radioastronomie, Bonn: ARGOS.

Physikalisch-Technische Bundesanstalt Berlin: eROSITA,

SPICA-SAFARI, TES Bolometer SQUID-Ausleseschaltung.

Städtisches Klinikum München GmbH, Mikrobiologie Zentrallager Schwabing: Plasma Medicine.

Stiftung Tierärztliche Hochschule, Institut für Lebensmittelqualität und -sicherheit, Hannover: Plasma Medicine.

Thüringer Landessternwarte Tautenburg: GROND; Gamma-Ray Bursts.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Nukleare Astrophysik; Toxologische Abteilung II Med Klinik: Plasma Medicine.

Trans MIT, Gießen: Pulse tube cooler for GRAVITY.

Universität Bochum: Komplexe Plasmen; LUCI.

Universität Bonn: Test von Pixeldetektoren für ATHENA; eROSITA; EUCLID.

Universität Düsseldorf: komplexe Plasmen, ERC Advanced Grant.

Universität Erlangen: eROSITA.

Universität Greifswald: Komplexe Plasmen.

Universität Hamburg: eROSITA; OPTIMA (Flarestars)

Universität Heidelberg: Athena; XFEL.

Universität Jena: Isolierte Neutronensterne; Nukleare Astrophysik.

Universität Kiel: Komplexe Plasmen.

Universität Köln: Galaktisches Zentrum; GRAVITY.

University of Veterinary Medicine Hannover, Institute for food quality and food safety: Plasma Medicine.

Universität Mannheim: Athena; XFEL.

Universität Regensburg, Institut für Pathologie, Innere Medicine: Plasma Medicine.

University Hospital Regensburg, Department of Dermatology: Plasma Medicine.

Universität Siegen: Compton Kamera.

Universität Würzburg: AGADE, GRIPS.

Frankreich

CEA, Saclay: INTEGRAL-Spektrometer SPI; Herschel-PACS; CAST; EUCLID; SPICA; SVOM.

Centre d'Etude Spatiale des Rayonnements (UPS), Toulouse: INTEGRAL-Spektrometer SPI.

GREMI-Lab, Orleans: Komplexe Plasmen; Plasmakristall Experimente auf der ISS.

IAP Paris: Nukleare Astrophysik.

LAM: EUCLID; Gamma-Ray Bursts.

IPAG Grenoble: GRAVITY.

OAMP Marseille: Herschel-PACS.

Observatoire de Paris-Meudon: GRAVITY; MICADO.

Griechenland

University of Crete and Foundation for Research and Technology Hellas (FORTH), Heraklion: Ausbau und Betrieb der Skinakas Sternwarte; Untersuchung von windakkretierenden Röntgendoppelsternsystemen; Entwicklung und Einsatz des OPTIMA Photometers; optische Identifikation und Monitoring von Röntgen-AGN, Novae.

Großbritannien

Belfast, Queen's University: PanSTARRS.

BRUNEL University: Athena.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

Loughborough University, Department of Electronic and Electrical Engineering: Plasma Medicine.

Open University, Milton Keynes: Kataklysmische Variablen; Novae.

Rutherford Appleton Laboratory, Council for the Central Laboratory of the Research Councils: SIS-Junctions; Komplexe Plasmen.

University College London, MSSL: High Energy Pulsars. EUCLID; DES.

University of Durham: KMOS, PanSTARRS.

University of Cambridge: DES; RoPACS.

University of Edinburgh: DES; KMOS; PanSTARRS.

University of Hertfordshire: RoPACS.

University of Leeds: Komplexe Plasmen.

University of Leicester: XMM-Newton Datenanalyse; IXO; Swift.

University of Liverpool: Komplexe Plasmen.

University of Nottingham: DES.

University of Portsmouth: DES.

University of Sussex: DES.

University of Southampton: Magellanic Clouds.

University Oxford: Komplexe Plasmen; KMOS.

United Kingdom Astronomy Technology Centre (UKATC): EUCLID; KMOS.

Irland

National University of Ireland, Galway: High Time Resolution Astronomy.

University College Dublin: Fermi/GBM.

Israel

School of Physics and Astronomy, Wise Observatory, Tel Aviv: Aktive Galaxien; Interstellares Medium; Galaxienentwicklung.

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

Italien

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen; Athena.

IFCAI-CNR Palermo: XMM-Newton Beobachtungen von Neutronensternen und Pulsaren.

INAF Arcetri: ARGOS; LBT.

INAF Trieste: Gamma-Ray Bursts; Fermi/LAT.

INAF Padua: Herschel-PACS; LBT; MICADO.

INAF Roma: LBT; Nukleare Astrophysik.

INFR Frascati: SIDDHARTA.

Istituto di Fisica dello Spazio Interplanetario (CNR), Frascati: Herschel-PACS.

OAA/LENS Firenze: Herschel-PACS.

Politecnico di Milano: rauscharme Elektronik; Röntgendetektorenentwicklung.

University Bologna: EUCLID.

Universität Neapel: Komplexe Plasmen.

Japan

Tokio Institute of Technology (TITECH), Ookayama: ASCA/XMM-Newton Beobachtungen von AGN.

ISAS: SPICA-SAFARI.

JAXA: Pk-3 Plus; PK-4; Plasmalab.

Kyoto Institute for Technology: Komplexe Plasmen, PK-3 Plus, Plasmalab.

Tohuko University: Komplexe Plasmen.

University of Osaka: Astro H; Athena CCDs.

University of Tokyo: GeBiB detectors.

Yokohama National University: komplexe Plasmen.

Kroatien

Ministry of Science and Technology, Zagreb: CAST.

Niederlande

ESTEC, Noordwijk: XMM-Newton-TS-Spiegelkalibration; CCD Entwicklung; Radiation Performance Instrument; INTEGRAL; EUCLID; PK-4.

FOM Institute for Plasma Physics, Rijnhuizen: komplexe Plasmen.

NOVA Leiden: MICADO.

SRON Groningen: SPICA-SAFARI.

SRON, Utrecht: Chandra-LETG; TES für SPICA/Athena.

TU Delft: Reflexions Messungen an schwarzen Farben.

University Eindhoven: Komplexe Plasmen; Plasmalab.

University of Groningen, Kapteyn Institute: Rekonstruktion der Dichteverteilung im Universum.

Norwegen

Universität Tromsø: Komplexe Plasmen.

Österreich

Universität und TU Wien: Herschel-PACS.

Universitäten Wien, Innsbruck, Linz: MICADO.

Polen

Nicolaus Copernicus (ZAMK), Torun: Pulsars Astronomical Centers.

University Zielona Gora: OPTIMA.

Portugal

SIM Lissabon: GRAVITY.

Universität Lissabon: Komplexe Plasmen.

Russland

Joint Institute for High Temperatures (JIHT) of the Russian Academy of Science, Moscow: Plasmakristall Experiment (PKE); PKE-Nefedov; PK-3 Plus; PK-4; Plasmalab; Plasma Medicine.

Institute for Biomedical Problems of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Epidemiology and Microbiology Problems of the Russian Academy of Medical Sciences, Moscow: Plasma Medicine.

Institute for Theoretical and Experimental Biophysics of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Problems of Chemical Physics of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Physical Chemical Medicine of the Russian Academy of Medical Sciences, Moscow: Plasma Medicine.

Space Research Institute (IKI) of the Russian Academy of Science, Moscow: eROSITA, Spektrum Röntgen-Gamma.

Skobeltsyn Institute of Nuclear Physics, Moscow: Nukleare Astrophysik; Gamma-Ray Bursts; AGADE.

Schweden

University Lund/Observatory: OPTIMA.

University Stockholm: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

Schweiz

CERN, Geneva: CAST.

ETH Zürich: ERIS

Observatoire de Genève Sauverny, Geneva: ISDC/INTEGRAL; Nukleare Astrophysik.

Universität Basel: Nukleare Astrophysik.

Spanien

Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas: DES.

ESAC, Madrid: XMM-Newton Science Operations Center; INTEGRAL Science Operations Center; Herschel Science Operations Center.

Instituto de Astrofisica de Canarias (IAC), Laguna: Herschel-PACS; RoPACS.

Instituto de Ciencias del Espacio: DES.

Institut de Fisica d'Altes Energies: DES.

LAEFF, Madrid: RoPACS.

Universität Valencia, Department de Astronomia, Valencia: INTEGRAL-Spektrometer SPI.

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen

Taiwan

National Central University, Chungli; PanSTARRS.

Türkei

Bogazici University, Istanbul: CAST.

Ukraine

Main National Observatory, Kiev: RoPACS.

Ungarn

Konkoly Observatory: Herschel-PACS.

USA

Argonne National Laboratory: DES.

Brookhaven National Laboratory: strahlenharte JFET-Elektronik; strahlenharte Detektoren.

California Inst. of Technology, Pasadena: X-ray survey.

CfA, Cambridge: Athena WFI; XMM-Newton/Chandra Kalibration.

Clemson University: Gamma-Ray Bursts; Nukleare Astrophysik.

Fermilab, Batavia: DES.

Harvard University: PanSTARRS.

Institute for Astronomy, Hawaii, Honolulu: Galaxienentstehung; PanSTARRS; NIR Kamera für Wendelstein.

Jet Propulsion Laboratory, Pasadena: EUCLID.

Johns Hopkins University: PanSTARRS.

Marshall Space Flight Center, Huntsville: Fermi Gamma-Ray Burst Monitor; XMM-Newton und Chandra Beobachtungen von Neutronensternen, Pulsaren und Supernova-Überresten.

MIT, Cambridge: Athena WFI.

NOAO, Tucson: DES.

NASA/Goddard Space Flight Center, Greenbelt, MD: INTEGRAL-Spektrometer SPI; Swift.

Naval Research Laboratory: komplexe Plasmen.

Ohio State University: DES; LBT.

Old Dominion University Norfolk, Laser & Plasma engineering Institute: Plasma Medicine.

Pacific Northwest National Laboratory (PNNL), Richland: CAST.

Pennsylvania State University: HETDEX; Athena WFI; Swift.

Research Corporation: LBT.

Smithsonian Astrophysical Observatory, Cambridge: Chandra-LETGS; PanSTARRS; Röntgendoppelsterne in M31.

Space Telescope Science Institute, Baltimore: Galaxienentstehung; PanSTARRS.

STC: EUCLID.

Stanford University: DES; Fermi/LAT; Fermi/GBM.

SLAC: CAMP; DES.

Texas A & M University: DES.

Texas State University: HETDEX.

University of Arizona, Tucson: Kosmische Strahlung; Planetenentstehung; LBT; ARGOS.

University of California, Berkeley: MPG/UCB-Kollaboration; FAST; INTEGRAL-Spektrometer SPI; Department of chemical engineering: Plasma Medicine, Komplexe Plasmen.

University of California, San Diego: Komplexe Plasmen.

University of California, Santa Cruz: DES.

University of Chicago: DES.

University of Colorado, Boulder: komplexe Plasmen.

University of Iowa, Iowa City: Komplexe Plasmen; PKE-Nefedov, PK-3 Plus.

University of Illinois at Urbana-Champaign: FIFI-LS; DES.

University of Michigan: DES.

University of Pennsylvania: DES.

University of Pittsburgh: Galaxienentstehung.

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung.

Multinationale Kollaborationen - Projekte

ARGOS - Laserleitstern für das LBT: Arcetri Observatory, Italy; AIP, LSW Heidelberg, MPiA, MPIfR, Germany; University of Arizona, USA.

ASPI - The International Wave Consortium: CNR-IFSI Frascati, Italy; LPCE/CNRS Orleans, France; Dept. of Automatic Control and Systems University of Sheffield, UK.

Athena - Advanced Telescope for High Energy Astrophysics: University of Leicester, UK; SRON Utrecht, The Netherlands; Institut für Astronomie und Astrophysik Tübingen, Germany; CESR Toulouse, France; Institute of Space and Astronautical Science (ISAS), JAXA, Japan; ESA; NASA, MIT, CfA, Penn State University, USA.

BOSS: SDSS-III Collaboration.

CAST - CERN Solar Axion Telescope: CERN Geneva, Switzerland; TU Darmstadt, MPI für Physik (WHI) München, Germany; Universidad de Zaragoza, Spain; Bogazici University Istanbul, Turkey; Ministry of Science and Technology Zagreb, Croatia; CEA, Saclay, DAPNIA/-SED, France; Pacific Northwest National Laboratory, Richland, USA.

CDFS - The Chandra Deep Field South: ESO Garching, AIP, Germany; IAP Paris, France; Osservatorio Astronomico Trieste; Instituto Nazionale di Fisica Nucleare Trieste, Italy; Associated Universities Washington, Johns Hopkins University Baltimore, Space Telescope Science Institute Baltimore, USA; Center for Astrophysics Hefei, China.

Chandra: Marshall Space Flight Center Huntsville, Massachusetts Institute of Technology Cambridge, Smithsonian Astrophysical Observatory Cambridge, USA; Space Research Institute Utrecht, The Netherlands; Universität Hamburg, Germany.

COSMOS: INAF-Osservatorio Astronomico di Bologna, INAF-Osservatorio Astronomico di Roma, INAF-Osservatorio Astrofisico di Arcetri, INAF/IASF-CNR, Sezione di Milano, IRA-INAF, Bologna, Dipartimento di Astronomia, Universita Padova, Dipartimento di Fisica, Universita degli Studi Roma Tre, Italy; Harvard-Smithsonian Centre for Astrophysics, Cambridge, Dept. of Physics, Carnegie Mellon University, Pittsburg, Institute for Astronomy, University of Hawaii, California Institute of Technology, Pasadena, Dept. of Astronomy, Yale University, USA; INTEGRAL Science Data Centre, Versoix, Switzerland; Laboratoire d'Astrophysique de Marseille, France.

DES - Dark Energy Survey: LMU München, Excellence Cluster Universe, Germany; The Fermi National Accelerator Laboratory (Fermilab), University of Chicago, NOAO, University of Michigan, University of Pennsylvania, University of Illinois at Urbana-Champaign, Ohio State University, Texas A&M University, University of California Santa Cruz, Stanford University, SLAC National Accelerator Laboratory, The Lawrence Berkeley National Laboratory, Argonne National Laboratory, USA; University College London, University of Cambridge, University of Edinburgh, University of Portsmouth, University of Sussex, University of Nottingham, UK; Observatorio Nacional, Centro Brasileiro des Pesquisas Fisicas, Universidade Federal do Rio, Brasilien; Instituto de Ciencias dei Espacio, Institut de Fisica d'Altes Energies, Centro de Investigaciones Energeticas Medioambientales y Tecnologicas, Spain.

ERIS: ETH Zürich.

eROSITA: Universität Tübingen, Universität Bonn, Universität Erlangen, AIP Potsdam, Universität Hamburg, Remeis-Sternwarte Bamberg, MPA Garching, LMU München, Germany; IKI Moskau, Russia.

EUCLID - ESA Mission to map the Dark Energy: ESA; CEA Saclay, LAM, France; University Bologna, INAF, Italy; MSSL, Durham University, UKATC UK; STC I, USA; MPIA Heidelberg, Universität Bonn, Germany.

Fermi Gamma-Ray Burst Monitor: Marshall Space Flight Center Huntsville, University of Huntsville, USA.

Fermi Gamma-Ray Large Area Space Telescope: Stanford University Palo Alto, Naval Research Laboratory Washington DC, Sonoma State University Rohnert Park, Lockheed Martin Corporation Palo Alto, University of California Santa Cruz, University of Chicago, University of Maryland Greenbelt, NASA Ames Research Center Moffett Field, NASA Goddard Space Flight Center for High Energy Astrophysics Greenbelt, Boston University, University of Utah Salt Lake City, University of Washington Seattle, SLAC Particle Astrophysics Group Palo Alto, USA; ICTP and INFN Trieste, Istituto Nacionale di Fisica Nucleare Trieste, Italy; University of Tokyo, Japan; CEA Saclay, France.

FP7 Opticon JRA1 - Adaptive Optics: INAF Padova, INAF Arcetri, Italy; LAM Marseille, LAOG Grenoble; LESIA Paris, ONERA Paris, France; KIS Freiburg, MPIA Heidelberg, Germany; NOVA Leiden, The Netherlands; UKATC Edinburgh; University Durham, UK.

GRAVITY - Instrument for VLT Interferometry: MPIA Heidelberg, Universität Köln, ESO, Garching, Germany; SIM Lissabon, Portugal; IPAG, Grenoble, Observatoire de Paris / Meudon (LESIA), France.

Herschel - PACS (Photodetector Array Camera and Spectrometer): CSL Liège, Katholieke Universiteit Leuven, Belgium; MPIA Heidelberg, Universität Jena, Germany; OAA/LENS Firenze, IFSI Roma, OAP Padova, Italy; IAC La Laguna, Spain; Universität und TU Wien, Austria; IGRAP Marseilles, CEA Saclay, France; Konkoly Observatory, Hungary.

HETDEX - Hobby-Eberly Telescope Dark Energy Experiment: University of Texas, Austin, Pennsylvania State University, Texas A&M University, USA; AIP Potsdam, LMU, USM, Germany.

INTAS - Cooperation of Western and Eastern European Scientists: France, Germany, Norway, Russia.

ISDC - INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University Southhampton, UK; Institut für Astronomie und Astrophysik Tübingen, Germany; Danish Space Research Institute Lyngby, Den-

mark; University College Dublin, Ireland; Istituto di Fisica Milano, Istituto die Astrofisica Spatiale Frascati, Italy; N. Copernikus Astronomical Center Warsaw, Poland; Space Research Institute of the Russian Academy of Sciences Moscow, Russia; Laboratory for High Energy Astrophysics GSFC Greenbelt, USA.

INTEGRAL-Spectrometer SPI: Centre d'Etude Spatiale des Rayonnements (CESR) Toulouse, CEA Saclay Gif-sur-Yvette, France; University de Valencia Burjassot, Spain.

KMOS (a VLT multi-IFU near-infrared spectrograph): Universitätssternwarte München, Germany; University of Durham, ATC Edinburgh, University of Oxford, UK.

LBT - Large Binocular Telescope Project: MPIA Heidelberg, MPIfR Bonn, Landessternwarte Heidelberg Königstuhl, AIP, Germany; University of Arizona, Tucson, Ohio State University, Columbus, Research Corporation, USA; INAF, Italy.

Lockman Hole, optical/NIR identifications: Astrophysikalisches Institut Potsdam, ESO Garching, Germany; Istituto di Radioastronomia del CNR Bologna, Italien; Associated Universities Washington, California Institute of Technology Pasadena, Institute for Astronomy Honolulu, Princeton University Observatory, Pennsylvania State University Park, USA; Subaru Telescope NAO Hilo, Japan.

LUCI (Instrument for LBT): LSW Heidelberg, MPIA, Universität Bochum, Germany.

MICADO - Multi-Adaptive Optics Imaging Camera for Deep Observations: LMU, USM, MPIA, IFA Göttingen, Germany; INAF Padova, Italy; Austrian Universities astronomy cooperation (Wien, Innsbruck, Linz); NOVA, Federation of Dutch University Astronomy Depts, The Netherlands; LESIA, Paris, France.

MXT - Microchannel X-Ray Telescope for Gamma-Ray Bursts: CEA, Saclay; University of Leicester.

OPTIMA: AIP, MPI für Astrophysik, Universität Hamburg, Germany; University of Crete, Greece; University Zielona Gora, Poland; University Lund/Observatory, Schweden.

PanSTARRS - Panoramic Survey Telescope & Rapid Response System: MPIA Heidelberg, Germany, University of Hawaii, Harvard University, USA, Johns Hopkins Univ. Baltimore, MD, USA, Universities of Durham, Edinburgh, Belfast, UK.

PK-3 Plus (Plasma-crystal experiment): JIHT Moscow, Russia; University of Iowa City, USA; DLR-Köln, University of Kiel, Germany; Université d'Orléans CNRS, France; Okayama University, JAXA-ISAS, Kyoto Institute of Technology, Japan; Auburn University, USA.

PK-4 (Plasma-crystal experiment): JIHT Moscow, Russia; Université d'Orléans CNRS, France; University Stockholm, Schweden, University Napoli, Italy; University Tromsø, Norway; University Liverpool, UK; University Iowa, University Auburn, USA; ESTEC Noordwijk, The Netherlands; DLR Bonn, Germany.

Plasmamedizin: Max Planck Innovation GmbH, Dept. of Dermatology, Hospital Schwabing, München, Medizet Dept. Microbiology, Schwabing, München, Dept. of Dermatology, University Hospital Regensburg, Dept. of Neuropathology, TU München, Institute of Experimental Oncology, TU München, University of Veterinary Medicine, Hannover, German Aerospace Center (DLR), Cologne, German Aerospace Center (DLR), Bonn, Dept. of Toxicology, TU München, Hospital for ENT, LMU München, University Regensburg, Dept. of Internal Medicine, Institute of Pathology, Germany; Joint Institute for High Temperatures of RAS, Institute for Biomedical Problems, RAS, Institute for Epidemiology and Microbiology, RAMS, Institute for Theoretical and Experimental Biophysics, RAS, Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Institute for Physical Chemical Medicine, RAMS, "International Legal Aid" Company, Russia; University of California, Berkeley, Old Dominion University, Norfolk, VA, USA; Loughborough University, Leicestershire, ADTEC Europe Ltd., UK.

PlasmaLab: JIHT Moscow, Russia; GREMI-Orleans, France; Tohoku University Sendai, Japan; Auburn University, USA.

RoPACS - Marie Curie Initial Training Network to study Rocky Planets around cool stars: University of Hertfordshire, Institute of Astronomy, Cambridge, UK; Institute de Astrofisica de Canarias, Laboratorio de Astrofisica Espacial y Fisica Fundamental, Madrid, Spain; Main Astronomical Observatory, Kiev, Ukraine.

SDSS - Sloan Digital Sky Survey: MPA Garching, MPIA Heidelberg, Germany; Univ. of Washington, Seattle, Fermi National Accelerator Laboratory, Batavia, University of Michigan, Ann Arbor, Carnegie Mellon University, Pittsburgh, Penn State University, University Park, Princeton University Observatory, Princeton, The Institute of Advanced Study Princeton, Space Telescope Science Institute, Baltimore, Johns Hopkins Univ. Baltimore, USA.

SPICA-SAFARI: University of Tokyo, ISAS/JAXA, Sagamihara, Nagoya University, Japan; SRON, Groningen, TU Delft, The Netherlands; RAL, Dittcot, University of Cardiff, Cambridge University, UK; University of Geneva, ETH Zürich, Switzerland; CEA Grenoble, CESR Toulouse, Sap-CEA Saclay, LAM, Marseille, France; University of Vienna, Austria; MPIA, Heidelberg, Physikalisch Technische Bundesanstalt, Berlin, Germany; CAB-INTA, Madrid, Spain; IFSI-INAF, Rome, Italy; KU Leuven, CSL Liège Belgium; University of Lethbridge, Canada; NUI Maynooth, Ireland.

Swift - Gamma-Ray Burst Mission: NASA/GSFC Greenbelt, Penn State University, USA; University of Leicester, Mullard Space Science Laboratory London, UK; Osservatorio Astronomico Brera, Italy.

Topical Team - Critical Point in Complex Plasmas: ESA, Paris, France; JAXA, Tokyo, Japan; JIHT, Moskow, Russia.

XMM-Newton/SSC (Survey Science Center): AIP, Germany; SAP Saclay, CDS Strasbourg, CESR Toulouse, France; University of Leicester, Institute of Astronomy Cambridge, MSSL London, UK.

XMM-Newton/EPIC (European Photo Imaging Camera): SAP Saclay, IAS Orsay, CESR Toulouse, France; University of Leicester, University Birmingham, UK; CNR Mailand-Palermo-Bologna-Frascati, Osservatorio Astronomico Mailand, Italy; Institut für Astronomie und Astrophysik Tübingen, Germany.

Industrielle Kollaborationen

3d shape GmbH, Erlangen: Metrology for slumped glass mirror study.

ABN GmbH, Neuried: Ongoing servicing of the MPE test facility PANTER.

ADTEC Plasma Technology Co. Ltd., Hiroshima: Development of a low-temperature plasma device for in-vivo sterilisation in medical applications.

Albedo GmbH, Neubiberg; Soft- and hardware developments for PK-3 Plus; electronics for SDD readout.

Array Electronics, Egmating: DAQ development OPTIMA.

BASF Coatings AG, Münster: Investigations on the scattering properties of micro particles.

Bonerz engineering, Weiler-Simmerberg: printed circuit board development, electronics development.

Buchberger GmbH, Tuchenbach: Manufacturing of parts for PANTER manipulators; parts for CAST.

Cryovac, Troisdorf: Crystat for SPICA-SAFARI detector assembly tests.

EADS Astrium Munich: EUCLID design study.

ESS, Landsberg: Servicing of the electrical installation; Manufacturing of electrical devices for the test facilities PANTER, CALIFA and PUMA.

ESL GmbH, Berlin: Manufacturing of circuit boards.

Euro Hect Pipes, Nivelle, Belgien: Cooling System for eROSITA.

Freyer GmbH, Tuningen: PANTER, parts for LUCI.

Guido Lex Werkzeugbau GmbH, Miesbach: parts for LUCI.

Hans Englert GmbH, Berlin: Manufacturing of front panels and metering devices.

HPS München: Environmental testing eROSITA.

IABG: MLI for eROSITA.

Ingenieurbüro Buttler, Essen: Development of front-end electronics for IXO and eROSITA.

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

Ingenieurbüro Weisz, München: Design and mechanical engineering for LUCI.

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

Kaiser Optical Systems, Inc, Ann Arbor, USA: VIRUS-W VPH grating.

Kayser-Threde GmbH, München: Plasma-crystal experiments on the ISS; PKE; PK-3 Plus; PK-4; mechanical Structure for eROSITA mirrors; EUCLID design study.

Kugler GmbH, Salem: GRAVITY.

Laserjob GmbH, Grafrath: Development of X-ray baffles for eROSITA.

Media Lavio Technologies, Borisio Parini, Italy: eROSITA mirror system.

Oxford Instruments, UK: Sub-Kelvin cooler for SPICA-SAFARI test facility.

PNSensor, München: Development and Manufacturing of semiconductor detectors; Mounting of semiconductor Systems; ARGOS.

RUAG Austria: Telecope-Cover-Mechanism for eROSITA.

Scientific Instruments, Tucson, USA: Construction of the 16x16K CCD Mosaic Detector of the Wendelstein Wide Field Camera.

Technotron, Lindau: Development and manufacturing of electronics boards for eROSITA.

von Hoerner & Sulger, Schwetzingen: Manufacturing for PK-4.

Aktivitäten im Wissenstransfer

Durch unsere vielen Kooperationen mit anderen Forschungseinrichtungen und der Industrie ergibt sich ein natürlicher Wissenstransfer. Dies gilt auch bei der Vergabe von Aufträgen an die Industrie. Im Gegensatz dazu sind im Folgenden industriefinanzierte Forschungskooperationen bzw. Beratungstätigkeiten sowie erteilte Patente und vergebene Lizenzen aufgeführt.

A) Industriefinanzierte Forschungskooperationen

Optical design and development for MICADO.

Dr. Johannes Heidenhain-Stiftung, Traunreut: Technologische Entwicklung auf dem Gebiet der Röntgenoptik und Röntgenspektroskopie; Entwicklung schneller Detektoren für Infrarot- und Röntgenstrahlung.

OHB-System GmbH, Bremen: Voruntersuchung für einen flexiblen S/W Simulator für Kleinsatelliten.

ADTEC Plasma Technology Co. Ltd., Hiroshima (Japan): Plasmamedizin.

PNSensor, München, Aufbau und Test eines Röntgen-Gamma-Strahlen-Detektors.

B) Lizenzen

ADTEC, Japan, Plasma Torch.

Biocam GmbH, Regensburg: Dermatoscopy.

Baader Planetarium GmbH, Mammendorf: Reflexionsgitter Spectrograph für Lehrzwecke.

PNSensor, München, Detektortechnologie.

Baader Planetarium GmbH, Mammendorf: Baches Echelle Spectrograph.

C) Kooperationen mit Universitäten (vertraglich)

Anästhesiologie:

Klinik für Anästhesiologie, Klinikum Rechts der Isar, TU München.

Scanning Probe Microscopy and Ramam Spectroscopy:

Department of Neuropathology, Technical University Munich.

Institut für Kristallographie und Angewandte Mineralogie, LMU München.

Radiology:

Institut für Röntgendiagnostik, TU München.

Rastersonden-Mikroskopie:

Bayerisches Landeskriminalamt, SIZ, München.

Plasmamedizin:

Department of Chemical Engineering, University of California, Berkeley.

Department of Neuropathology, TU Munich.

Department of Infectiology & Virology, University Heidelberg.

Department of Toxology, TU Munich.

Hospital for ENT, LMU München.

Institute of Experimental Oncology, TU Munich.

Klinik für Dermatologie, Allergologie und Umweltmedizin, Städtisches Klinikum München GmbH, München.

Klinik und Poliklinik für Dermatologie, Universität Regensburg.

Institute for Biomedical Problems of the Russian Academy of Sciences, Moscow.

Institute for Epidemiology and Microbiology of the Russian Academy of Medical Sciences, Moscow.

Institute for Theoretical and Experimental Biophysics of the Russian Academy of Sciences, Moscow.

Institute for Problems of Chemical Physics of the Russian Academy of Sciences, Moscow.

Institute for Physical Chemical Medicine of the Russian Academy of Medical Sciences, Moscow.

Loughborough University, Department of Electronic and Electrical Engineering: Plasma Medicine.

Old Dominion University Norfolk, Laser & Plasma engineering Institute: Plasma Medicine.

Städtisches Klinikum München GmbH, Mikrobiologie Zentrallager Schwabing: Plasma Medicine.

University of Veterinary Medicine Hannover, Institute for food quality and food safety: Plasma Medicine.

Detektorentwicklung:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung.

D) Patente - Aktivitäten in 2012

Patent 0207-4628: Detector Power Supply DSV 27 K.

Das MPE hält derzeit insgesamt 35 Patente.