

The image shows a multi-level interior space, likely a lobby or atrium. A prominent feature is a staircase with a dark metal frame and wooden handrails, leading up and down. The walls are a mix of white and light blue. A large, vibrant mural of a nebula or galaxy is displayed on the wall. The ceiling has recessed lighting. A large, cylindrical concrete pillar stands on the right side. The floor is a combination of light wood and dark blue carpeting.

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extraterrestrische Physik**

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

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

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

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

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

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

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

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

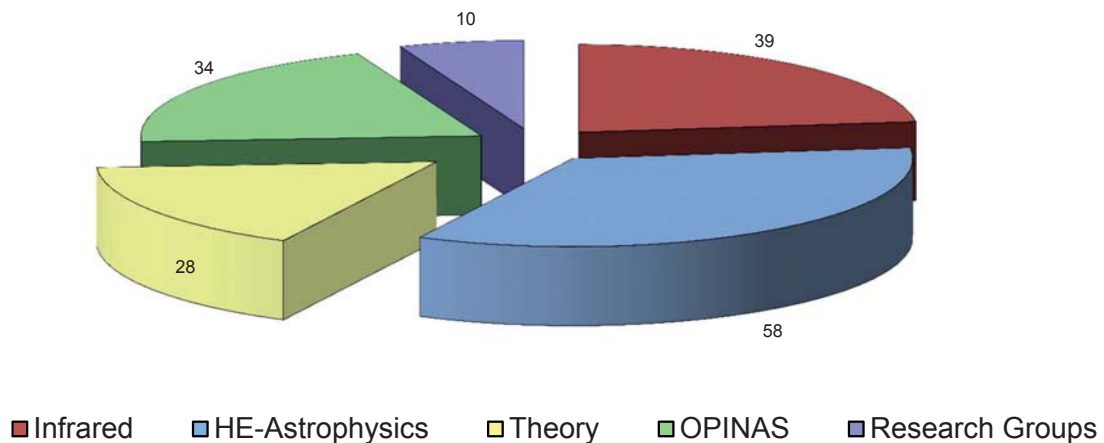
van Dishoeck, E.: Akademie-Preis der königlich niederländischen Akademie der Wissenschaften, Juni 2012.

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

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

Science Groups

Staff Member by Science Groups



Infrared / Submillimeter-Astronomy

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PhD / Diploma / Master

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High-Energy Astrophysics

Secretary: Boller, B.

Team Assistent: Frankenhuizen, W.

Andritschke, Dr. R.; Becker, Dr. W.; Böhringer, Dr. H.; Boller, Prof. Dr. T.; Bongiorno, Dr. A. (until 31.1.); Bräuninger, Dr. H.; Brightman, Dr. M.; Brunner, Dr. H.; Brusa, Dr. M. (until 31.10.); Buchner, J.; Burkert, Dr. W.; Buron, A.; Burwitz, Dr. V.; Dennerl, Dr. K.; Diehl, Dr. R.; Dwelly, Dr. T.; Elbs, Dr. J.; Eder, Dipl.-Ing. J.; Fassbender, Dr. R. (until 30.11); Finoguenov, Dr. A. (until 31.10.); Freyberg, Dr. M.; Friedrich, Dr. P.; Fürmetz, Dr. M. (since 1.10.); Gaida, R.; Georgakakis, A.; Greiner, Dr. J.; Gruber, D. (since 1.11.); Guglielmetti, Dr. F.; Haberl, Dr. F.; Hahn, A.; Hartmann, K.; Hartner, Dipl.-Math. G.; Henze, Dr. M. (until 31.10.); Kienlin von, Dr. A.; Kann, Dr. A. (1.9.-31.12.); Kim, J.W.; Kretschmer, Dr. K. (until 31.7.); Lemson, Dr. G.; Meidinger, Dr. N.; Merloni, Dr. A.; Nastasi, A. Dr. (since 1.12.); Pfeffermann, Dipl.-Phys. E.; Pietsch, Dr. W.; Predehl, Dr. P.; Rau, Dr. A.; Rommierskirchen, T.; Sanders, Dr. J. (since 1.8.); Savaglio, Dr. S.; Schaller, G.; Schopper, Dr. F.; Schady, Dr. P.; Stefanescu, A.; Strong, Dr. A.; Strüder, Prof. Dr. L.; Sturm, R. Dr. (since 1.10.); Treis, Dr. J.; Voges, Dr. W.; Walther, S.; Winter, Dr. A.; Zhang, Dr. X.-L.; Ziparo, Dr. F. (since 1.12.)

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(9.7.-17.8.); Orlando, E. (25.-30.6.); Pace, F. (12.6.-14.6.); Plant, D. (19.-23.11.); Roncalli Dr. M. (12.-14.6.); Schmidt, Dr. C. (16.-18.4.); Skinner, Dr. G. (since 1.9.); Thompson Dr. T. (11.-15.4.); Townsend, Dr. L.J. (13.-15.10.); Velasco C.A. (9.7.-17.8.); Wang, Dr. W. (7.5.-29.07.); Weber, Prof. F. (17.-30.6.); Werner, M. (31.7.-30.9.)

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Research Group Khochfar

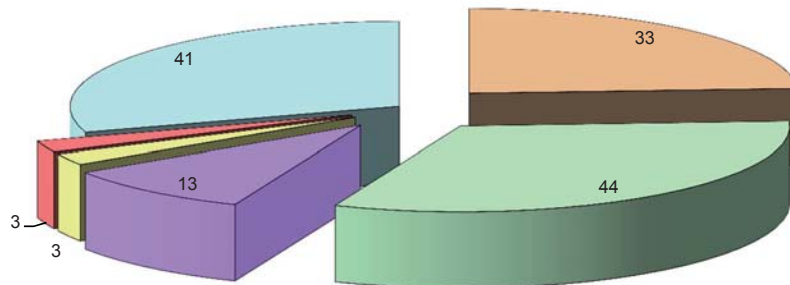
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- Mechanical Engineering
- Central Computing Group
- Publication Services
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Ing. (FH) K.; Gemperlein, Dipl.-Phys. H.; Haug, Dipl.-Ing. (FH) M.; Haußmann, F.; Huber, Dipl.-Ing. H.; Mayr-Ihbe, R.; Mican, Dipl.-Ing. B.; Paßlach, Dipl.-Ing (FH) S.; Pflüger, A.; Pietschner, Dipl.-Ing. (FH) D.; Plangger, M.; Rohe, C.; Schreib, R.; Stemmer, A.; Strecker, R.; Tiedemann, Dipl.-Ing. L.

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Library

Chmielewski, E. (Head)

Blank, E.; Hardt, C.

Administration

Ihle, M. (Head of VAD)

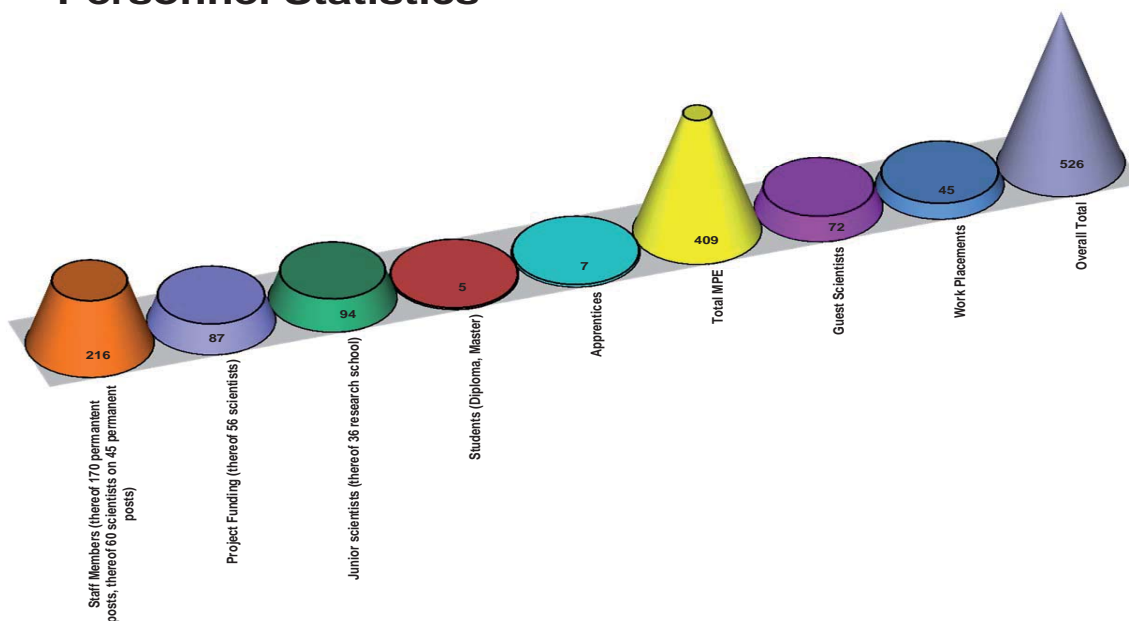
Secretary: Kliem, V.

Altinger, C.; Apold, G.; Arturo, A.; Bauernfeind, M; Bauer, T., Bitzer, U.; Blascheck, M.; Cziasto, U.; Doll, E.; Eicher, C.; Ertl, M.; Goldbrunner, S.; Grasmann, M; Grohmann, M.; Gschnell, H.-P.; Hingerl, P.; Inhofer, I.; Jäkel, T.; Jirsch, J.; Karing, W.; Keil, M.; Kestler, L.; Kürzinger, T.; Kuhwald, E.; Mayer, L.; Nagy, A.; Neun, A. (BR); Paschou, J., Peischl, M.; Preisler, C.; Reither, A.; Rochner, R.; Rossa, E.; Sandtner, P.; Scheiner, B.; Schwaiger, S.; Steinle, R.; Strecker, R.; Thies, L.; Vogt, J.P.

IMPRS

Schubert, V.

Personnel Statistics

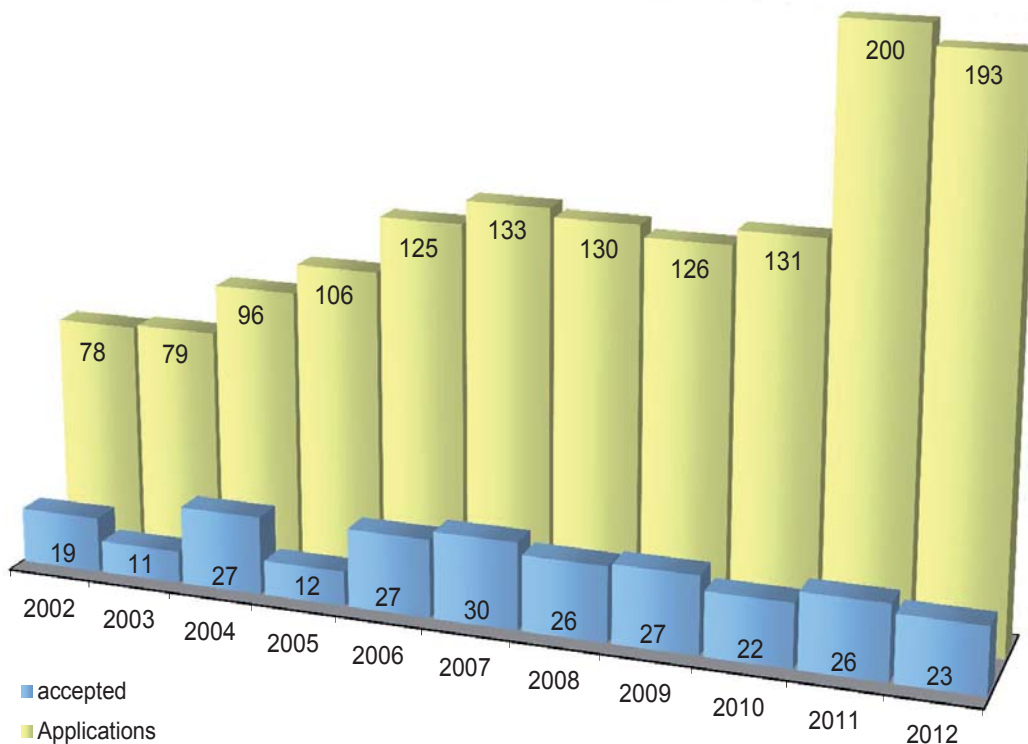


International Max-Planck Research School (IMPRS) for Astrophysics

The IMPRS for Astrophysics is a graduate school at the Ludwig-Maximilians-Universität (LMU) Munich. The school is a joint project of the Max-Planck-Institutes MPE and MPA (Max-Planck-Institute for Astrophysics) as well as the Observatory of LMU Munich and the European

Southern Observatory (ESO). In the academic year 2012 a total of 81 students took part in the program, thereof 33 at the MPE. In the year 2012, 193 students applied for the year 2013, 23 were accepted (up to May 2013).

IMPRS Applications since 2001



PR Work

MPE is engaged in public relations work and education. The activities in 2012 were: 28 public talks, 9 press releases, 14 general news (scientific, prizes, awards), 30 guided tours through the institute (mainly scientifically orientated school classes), supervising 13 internships of high school students (1 - 2 weeks) and 6 university students (4 - 8 weeks).

50 girls were introduced to MPE in the federal initiative "Girls' Day" in April.

More information about the PR work at MPE can be found at:

<http://www.mpe.mpg.de/2305/public-outreach/>

Project-Groups

(Project Manager underlined)

Infrared- and Submillimeter-Astronomy

Deputies to the Director of the Group:
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.

High-Energy Astrophysics

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, Schmalzer, 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.

Theory und Complex Plasmas

Adaptive Electrode

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

GEC-Labor

Chauduri, Du, Konopka, Morfill, Nosenko, Pustyl'nik, 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, Pustyl'nik, 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, Czempel, 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, Räh, Rosmanit, Scheingraber, Sidorenko.

Optical and Interpretative Astronomy

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.

Teaching

IMPRS on Astrophysics (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, WS 12/13)

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 „Extragalactic 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 PRTL15 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 of Seminars / Conferences

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. Schwobe, 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.

Publications

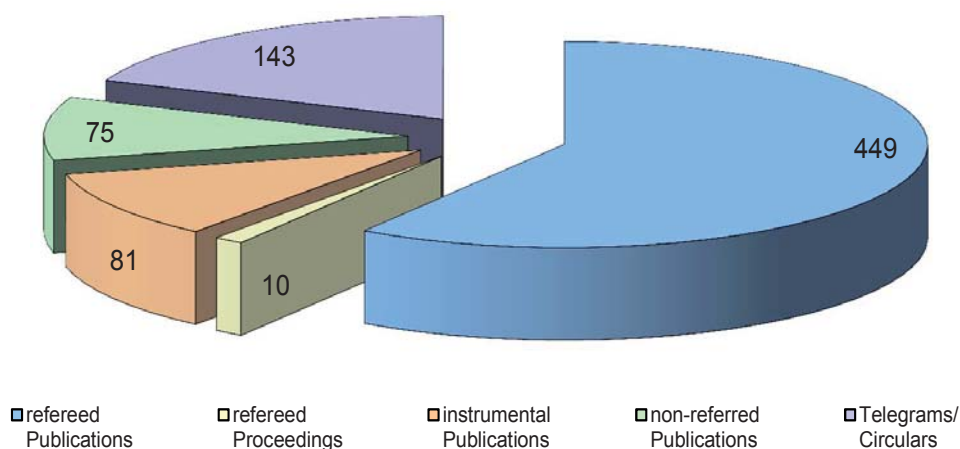
Here we present a tabular and graphical summary of our publication activities in 2012. The publications are counted by science group and publication type. The individual publications are listed consecutively.

Summary of MPE Publications in 2012

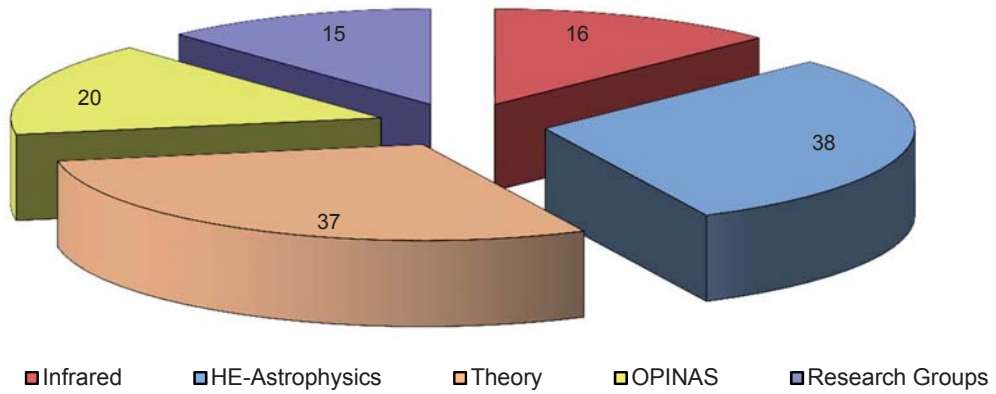
Science Group	refereed Publications	refereed Proceedings	Instrument. Publications	non-refereed Publications	Telegrams/Circulars	talks	Poster
IR	16 (105)	0 (0)	9 (25)	8 (26)	3 (9)	117 (153)	5
HE Astrophysik Theorie	38 (187)	6 (7)	15 (35)	16 (32)	81 (129)	63 (107)	27
OPINAS Research-Groups	37 (58)	3 (3)	0 (0)	3 (5)	0 (0)	20 (63)	19
	20 (70)	0 (0)	8 (21)	4 (10)	0 (5)	29 (42)	1
	15 (29)	0 (0)	0 (0)	0 (2)	0 (0)	4 (8)	2
Total	126 (449)	9 (10)	32 (81)	31 (75)	84 (143)	233 (373)	54

The black entries give the number of publications with a first author from MPE or invited talks, respectively. The red entries in brackets show the total number of publications with MPE contribution or talks (including the black numbers). Publications with contributions from more than one research group are counted for the group of the leading author. Posters are counted only if the first author is a MPE member..

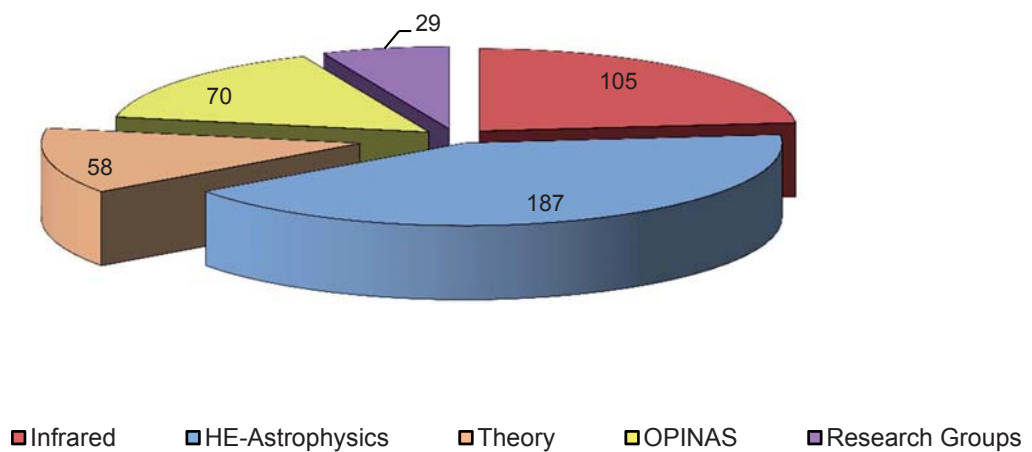
Total MPE Publications 2012 (by type)



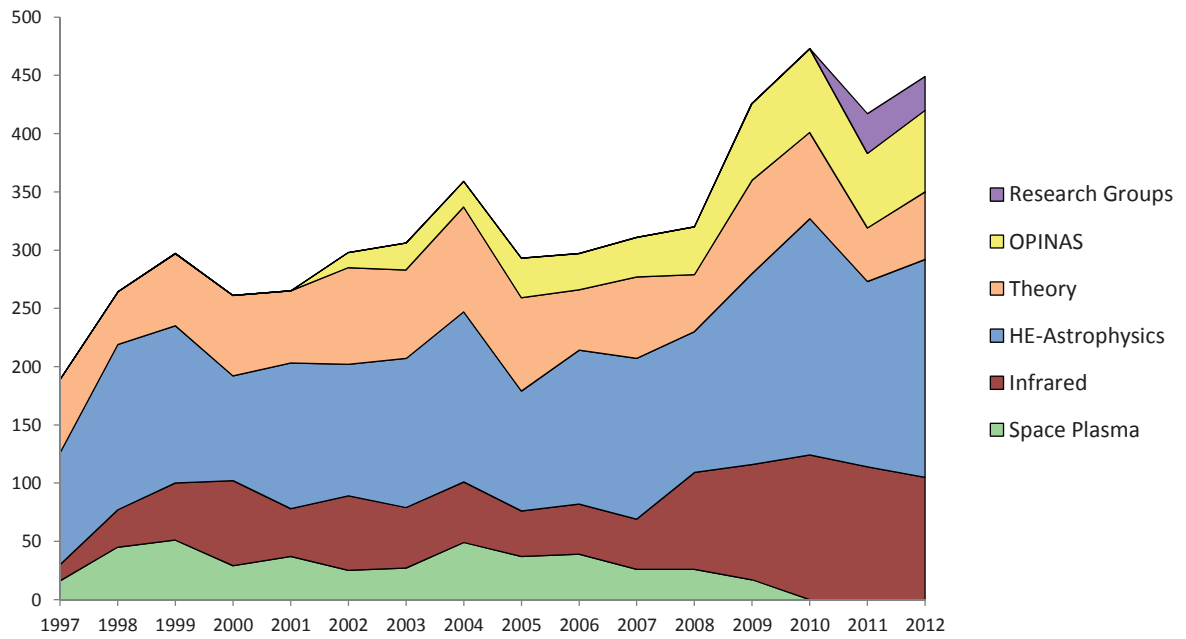
**Refereed Publications with MPE first author in 2012
(by Science Group)**



**Total refereed MPE Publications in 2012
(by Science group)**



**History of MPE Total Refereed Publications
(by Science Group)**



Refereed Publications

- 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).
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- 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).
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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.
- Knappek, 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.
- Pustyl'nik, 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.
- Pustyl'nik, 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.
- Rossmannith, 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 $z \sim 1.6$, 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 $z \sim 1.6$, IMPRS evaluation, Garching, Germany, July 2012.

Talks

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, Radboud University, Nijmegen, 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'orizzonte 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 Planéologie 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 $z \sim 2$, invited talk, Galaxies Insight-Out, Leiden, The Netherlands, July 2012.

Förster Schreiber, N.M.: What drives star formation and stellar mass assembly at $z \sim 1-3$? 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 $z \sim 1-3$ 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 München VDI 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.
- Knappek, 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.
- Körntzer, 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 $z \sim 2$ 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, Villafraanca, 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, 3rd 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, Beijing, 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.
- Rossmannith, 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.: Photometric 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, eROSITA 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 Groningen, 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, 220th 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 für 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.

Habilitations

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.

PhD Theses

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, F.: The role of environment and merging activity in the star formation up to $z \sim 1.6$. Ludwig-Maximilians-Universität München 2012.

Diploma

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.

Master

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 VLT 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.

Bachelor

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.

Books / Articles in Books

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).

Collaborations / Transfer of Know-How

Scientific Collaborations by Country



Australia

Australian National University: Galaxienentstehung.
 Monash University: Nukleare Astrophysik.
 Swinburne University of Technology, Victoria: Millisecond Pulsars.
 University of Western Sydney: Magellanic Clouds.

Austria

Universität und TU Wien: Herschel-PACS.
 Universitäten Wien, Innsbruck, Linz: MICADO.

Belgium

CSL Liège, Katholieke Universiteit Leuven: Herschel-PACS; INTEGRAL-Spectrometer SPI; SPICA-SAFARI.

Brasil

Universidade 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.

Croatia

Ministry of Science and Technology, Zagreb: CAST.

Germany

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 Medizin: Plasma Medicine.

University Hospital Regensburg, Department of Dermatology: Plasma Medicine.

Universität Siegen: Compton Kamera.

Universität Würzburg: AGADE, GRIPS.

France

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.

Greece

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.

Hungary

Konkoly Observatory: Herschel-PACS.

Ireland

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.

Italy

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; Röntgendecktorenentwicklung.

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.

The Netherlands

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.

Norway

Universität Tromsø: Komplexe Plasmen.

Poland

Nicolaus Copernicus (ZAMK), Torun: Pulsars Astronomical Centers.

University Zielona Gora: OPTIMA.

Portugal

SIM Lissabon: GRAVITY.

Universität Lissabon: Komplexe Plasmen.

Russia

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.

Skobel'syn Institute of Nuclear Physics, Moscow: Nukleare Astrophysik; Gamma-Ray Bursts; AGADE.

Schweden

University Lund/Observatory: OPTIMA.

University Stockholm: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

Spain

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

Switzerland

CERN, Geneva: CAST.

ETH Zürich: ERIS

Observatoire de Genève Sauverny, Geneva: ISDC/INTEGRAL; Nukleare Astrophysik.

Universität Basel: Nukleare Astrophysik.

Taiwan

National Central University, Chungli; PanSTARRS.

Turkey

Bogazici University, Istanbul: CAST.

Ukraine

Main National Observatory, Kiev: RoPACS.

UK

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.

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.

Multinational Collaborations - Projects

ARGOS - Laser Guide Star facility for 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; Istituto 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, Università Padova, Dipartimento di Fisica, Università degli Studi Roma Tre, Italy; Harvard-Smithsonian Centre for Astrophysics, Cambridge, Dept. of Physics, Carnegie Mellon University, Pittsburgh, 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 de Pesquisas Físicas, 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 Nazionale 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 Southampton, 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 Spatale 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, Astrophysikalisches Institut Potsdam, 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 On-

cology, 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; Instituto 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, Sagami-hara, 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.

Industrial Collaborations

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, Eggenstein: 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: Cryostat 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, Nivelles, Belgium: Cooling System for eROSITA.

Freyer GmbH, Tübingen: 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: Telescope-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.

Activities in Transfer of Know-How

The high number of cooperations with industry and other research groups leads to a natural transfer of scientific and technical know-how, especially if orders are given to industry. In contrast, we list in the following those cooperations which are financed by industry as well as patents and licenses

A) Research cooperations financed by Industry

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) Licences

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) Cooperations with Universities (by contract)

Anaesthesiology:

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, StZ, München.

Plasmamedicine:

Department of Chemical Engineering, University of California, Berkeley.

Department of Neuropathology, TU Munich.

Department of Infectiology & Virology, University Heidelberg.

Department of Toxicology, 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.

Detector Development:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung.

D) Patents - Activities in 2012

Patent 0207-4628: Detector Power Supply DSV 27 K.

MPE holds currently 35 patents in total.