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Poglitsch, A.: Preis für Instrumentenentwicklung, Astronomische Gesellschaft, Göttingen, Germany, September 2017

Trümper, J.: Cothenius-Medaille, Leopoldina (Nationale Akademie der Wissenschaften), Halle, Germany, September 2017

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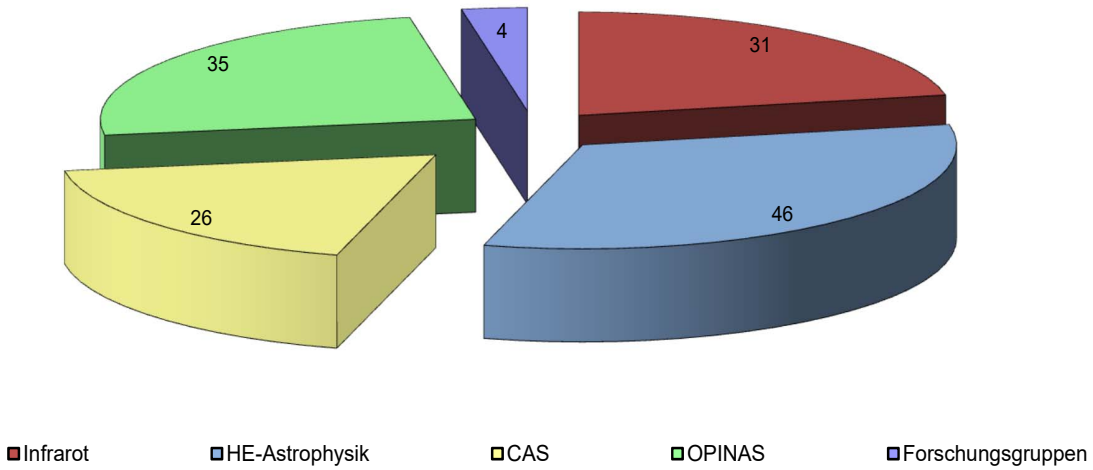

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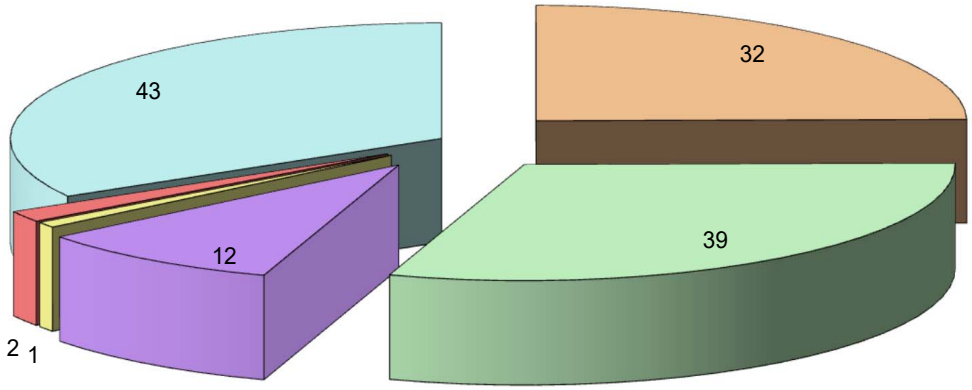

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Wanger, H. (Leitung VAD)

Sekretariat: Hesseler, G.

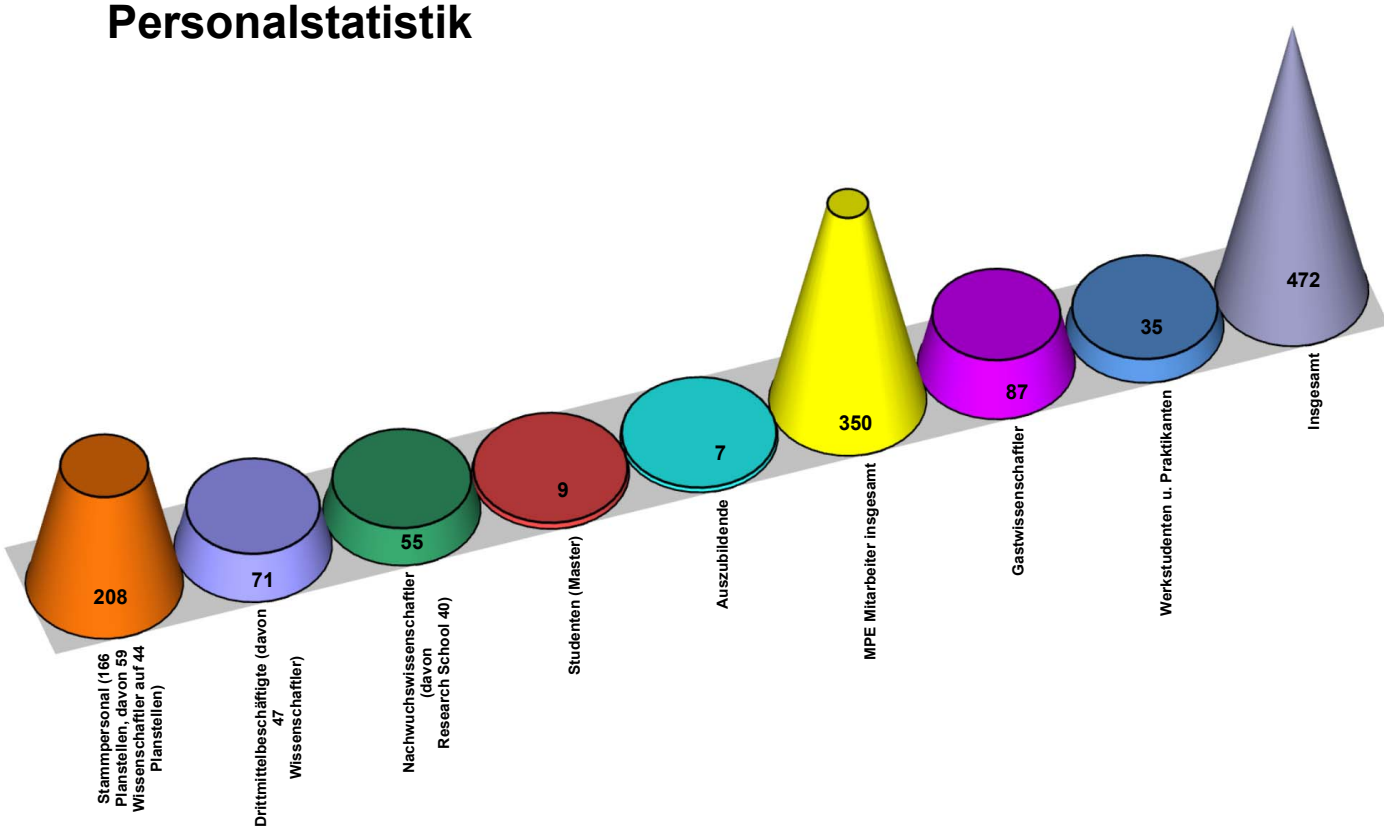
Apold, G.; Arturo, A.; Ayari, S. (ab 01.10.); Bauernfeind, M. (bis 31.12.); Bauer, T.; Belscak, L.; Cziasto, U.; Eicher, C.; Ertl, M. (bis 31.07.); Fleischmann, S. (bis 30.06.); Goldbrunner, S.; Grasemann, M. (bis 30.06.); Grohmann, M.; Gschnell, H.-P. (bis 30.04.); Hartung, I. (ab 01.07.) Hausmann, S.; Hidasi, R.; Hingerl, P. (bis 31.05.); Jäkel, T.; Jirsch, Y.; Kaps, S. (ab 01.08.); Karing, W. (bis 31.10.); Keil, M.; Kestler, L.; Krapivina, A.; Kuhwald, E.; Maier, E.; Meindl, D.; Nagy, A.; Neun, A. (BR); Paschou, J.; Peischl, M.; Preisler, C.; Rochner, R.; Rosenberger, S. (ab 01.06.); Sacher, A. (ab 01.09.); Sandtner, P.; Scheiner, B.; Schmidt, A.; Schwaiger, S.; Seyfarth, B.; Steinle, R. (bis 31.03.); Stricker, C.; Thiess, F.; Thiess, L.; Üblacker, K. (ab 01.07.); Uhland, J.; Vogt, J.P.

IMPRS

Hilbert, A. (ab 01.03.)

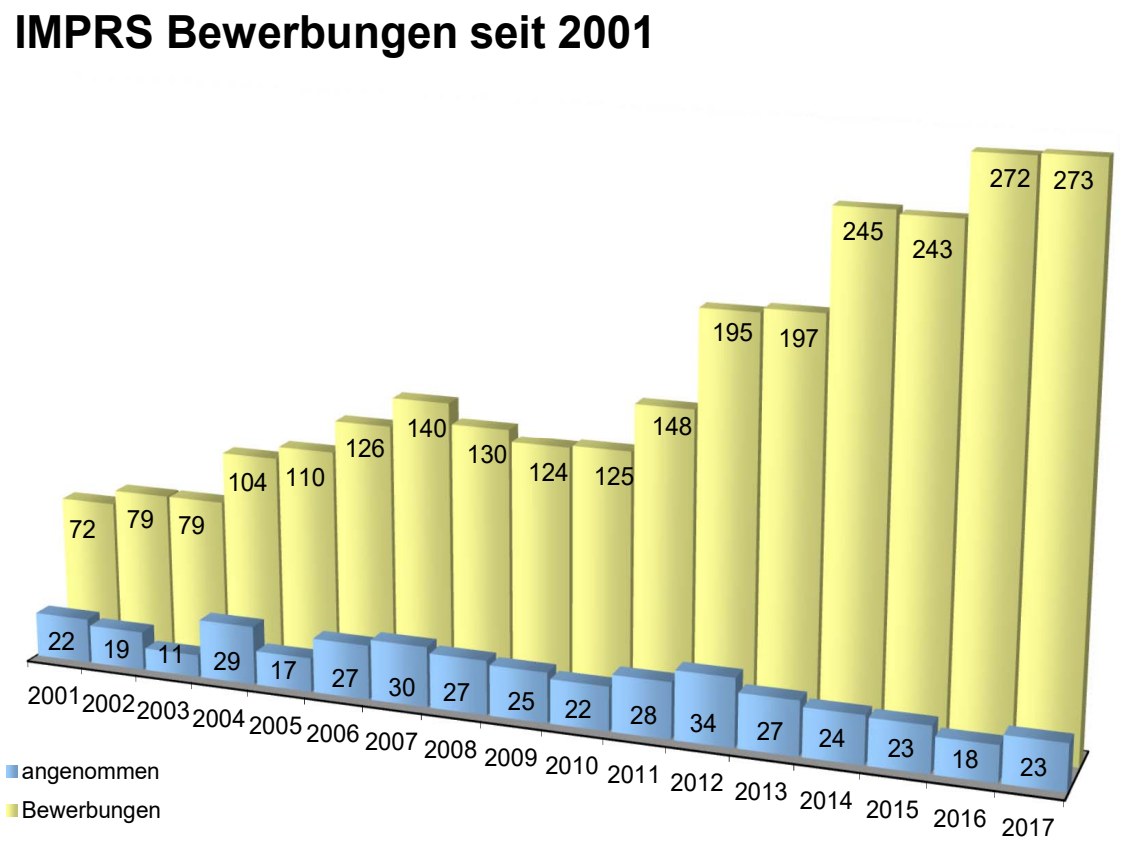
Schubert, V. (bis 31.03.)

Personalstatistik



Internationale Max-Planck Research School (IMPRS) für Astrophysik

Die IMPRS für Astrophysik ist eine Graduiertenschule an der Ludwig-Maximilians-Universität (LMU) München. Sie ist ein gemeinsames Projekt der beiden Max-Planck-Institute MPE und MPA (Max-Planck-Institut für Astrophysik) sowie der Sternwarte der LMU München und der Europäischen Südsternwarte ESO. Im akademischen Jahr 2017 nahmen insgesamt 99 Studenten an dem Programm teil, davon 41 am MPE. Für das Studienjahr 2017 haben sich 273 Studenten aus insgesamt 47 Ländern beworben. Davon wurden 23 Studenten angenommen, davon 11 am MPE. Aus den lokalen Universitäten kommen in der Regel übers Jahr weitere Doktoranden zum IMPRS Programm dazu, sodass man auf eine durchschnittliche Teilnehmerzahl von 26 Doktoranden pro Jahr kommt.



Jährliche Bewerbungen für das IMPRS Programm in Garching. Seit dem Start haben sich bis zum Studienjahr 2017 insgesamt 2662 Studenten beworben, 406 davon wurden angenommen.

Öffentlichkeitsarbeit

Das MPE engagierte sich 2017 durch folgende Aktivitäten in der Öffentlichkeitsarbeit: 21 populär-wissenschaftliche Vorträge durch Wissenschaftler, 11 Pressemitteilungen über wissenschaftliche Ergebnisse, 6 allgemeine Nachrichten (wissenschaftlich, Preise, Auszeichnungen), 25 Institutsführungen (meist naturwissenschaftlich orientierte Schulklassen). Am MPE wurden 19 Schüler- (1 - 2 Wochen) und 7 Hochschulpraktikanten (4 - 8 Wochen) betreut.

Am Girl's Day im März informierten sich 45 Mädchen über das Institut. Weitere Informationen zur Öffentlichkeitsarbeit sind unter:

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

zu finden.

Projekt-Gruppen

(Projektleiter unterstrichen)

Infrarot- und Submillimeter-Astronomie

Stellvertreter des Gruppendirektors:
Lutz, Tacconi.

ERIS
A. Buron, Cortes, Ric Davies, M. Deysenroth, Eisenhauer, Feuchtgruber, Hans, Hartl, H. Huber, Kleiser, Mandla, Plattner, C. Rau, Schubert, Sturm, Wiezorrek.

GRAVITY
Deen, Eisenhauer, Gao, Genzel, Gillessen, Haug, Haußmann, Karl, Kellner, Lippa, Ott, Pfuhl, Sturm, Waisberg, Widmann, Wieprecht, Wiezorrek, Yazici, Zanker-Smith.

LBT Argos
Barl, Ric Davies, M. Deysenroth, Gemperlein, Kohlmann, Rabien, Rosensteiner, Zanker-Smith, Ziegleder.

LBT LUCI
Contursi, Eibl, Eisenhauer, Gemperlein, Honsberg, Rabien.

MICADO
Barl, Ric Davies, B. Eder, J. Eder, Garrel, Hartl, Hörmann, Mandla, Manhart, Plattner, Schubert, Sturm.

Galaktisches Zentrum
Dexter, Eisenhauer, Genzel, Gillessen, Habibi, Ott, Pfuhl, Plewa, von Fellenberg, Waisberg, Widmann.

Galaxienkerne
Contursi, Ric Davies, Genzel, Herrera-Camus, Janssen, Lin, Lutz, Schruba, Shimizu, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung
Belli, Rebecca Davies, Förster Schreiber, Genzel, Lippa, Lutz, Nelson, Price, Sturm, Tacconi, Tadaki, Übler, Wisnioski.

Sternentstehung
Cazzoletti, Facchini, Schruba, van Dishoeck.

Theorie
Dexter, Bauböck, Jimenes Rosales, Stock, Waisberg.

Hochenergie-Astrophysik

ATHENA/Spiegel:
Budau, Burwitz, Hartner, Menz, Passlack.

ATHENA/WFI:
Albrecht, Andritschke, Behrens, Bonholzer, Bornemann, Eder, Emberger, Eraerds, Freyberg, Fürmetz, Haberl, Hälker, Hauser, Kink, Koch, Lederhuber, Manhart, Mican, Meidinger, Nandra, Obergassel, S. Ott, Pietschner, Plattner, A. Rau, Schubert, S. Müller, Müller-Seidlitz, Reiffers, Strecker, Tran, Treberspurg, Tüchler, v. Kienlin.

Chandra
Burwitz, Predehl.

eROSITA
Becker, Boller, Bornemann, Bräuninger, Brunner, Budau, Burghardt, Burwitz, Coutinho, Dennerl, Dittrich, Eder, Eibl, Finoguenov, Freyberg, Friedrich, Fürmetz, Gaida, Georgakakis, Goldbrunner, Grossberger, Haberl, Hälker, Hartmann, Hartner, F. Huber, v. Kienlin, Kink, Meidinger, Merloni, Mican, S. Müller, Nandra, Oberauer, Pfeffermann, Pietschner, Predehl, A. Rau, Rohé, Rupprecht, Salvato, Sanders, Schrey, Schuppe, Soller, Yaroshenko.

ROSAT
Boller, Freyberg, Haberl, Trümper.

Swift
Greiner, Schady.

XMM-Newton
Boller, Dennerl, Freyberg, Haberl, Meidinger, Trümper.

Fermi
Collmar, Diehl, Greiner, v. Kienlin.

GROND
Chen, Graham, A. Rau, Schady, Schrey, Schweyer.

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

MXT-SVOM
Burwitz, Meidinger, Nandra, A. Rau.

OPTIMA
A. Rau, Schrey, Schweyer.

4MOST
Boller, Dwelly, Merloni.

Aktive Galaxien
Boller, Georgakakis, Merloni, Nandra, Salvato.

Clusters of Galaxies
Finoguenov, Sanders.

Optische und Interpretative Astronomie

Large Scale Structure, eBoss, HETDEX
Bender, Farrow, Fabricius, Hopp, Montesano, Sanchez.

EUCLID
Bender, Fabricius, Galametz, Garcia Carpio, Gillhuber, Grupp, Hartung, Penka, Piemonte, Raison, Saglia, Steinwagner, Wetzstein, Wimmer.

KMOS
Beifiori, Bender, Fossati, Galametz, Mendel, Saglia, Wilman.

MICADO
Bender, Fabricius, Saglia, Thomas.

PanSTARRS
Bender, Farrow, Hopp, Saglia.

Galaxy Dynamics
Bender, Gerhard, Mazzalay, Saglia, Thomas, Wegg.

PFS
Bender, Fabricius, Sanchez.

Stellare Populationen und Galaxienentstehung
Bender, Hopp, Saglia.

Zentrum für astrochemische Studien

Beobachtungen
Ali-Lagoa, Alves de Oliveira, Feng, Mullins, Müller T., Nagy Z., Pineda Fornerod, Riaz, Schmiedeke, Segura-Cox

Theorie
Choudhury, Gong, Höcük, Ivlev, Silsbee, Sipilä, Szűcs, Thi, Vasyunin, Zhao.

Labor
Bizzocchi, Endres, Giuliano, Laas, Lattanzi, Spezzano.

Lehrveranstaltungen / Seminare

IMPRS on Astrophysics, Garching

Becker

Doktorandenseminar über aktuelle Themen aus der Astrophysik (WS 16/17, SS, 17, WS 17/18)

Caselli

Astrochemistry and Star/Planet Formation (WS 16/17)

Merloni

Astrophysical Black Holes (WS 16/17)

LMU München

Bender

Astronomisches Kolloquium (WS 16/17, SS 17, WS 17/18)

Astrophysikalisches Grundpraktikum (WS 16/17, SS 17, WS 17/18)

Forschungsprojekt Masterarbeit, Anleitung zum wissenschaftlichen Arbeiten (WS 16/17, SS 17, WS 17/18)

Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert, “Tools in modern astrophysics” (WS 16/17, SS 17, WS 17/18)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert (WS 16/17, SS 17, WS 17/18)

Astrophysikalisches Hauptseminar experimentell und beobachtungsorientiert, “Tools in modern astrophysics” (WS 16/17, SS 17, WS 17/18)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar experimentell und beobachtungsorientiert (WS 16/17, SS 17, WS 17/18)

Projektseminar mit begleitendem Kolloquium “Extragalactic group seminar” (WS 16/17, SS 17, WS 17/18)

Projektseminar mit begleitendem Kolloquium “Gravitational Lensing” (WS 16/17, SS 17, WS 17/18)

Projektseminar mit begleitenden Kolloquium “Galaxies” (WS 16/17, SS 17, WS 17/18)

Projektseminar mit begleitenden Kolloquium aus dem Bereich experimenteller Arbeiten und Instrumentenentwicklung in der Astronomie (WS 16/17, SS 17, WS 17/18)

Projektseminar mit begleitendem Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich der Kosmologie, Anleitung zum wissenschaftlichen Arbeiten (WS 16/17, SS 17, WS 17/18)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich experimenteller Arbeiten, Anleitung zum Wissenschaftlichen Arbeiten (WS 16/17, SS 17, WS 17/18)

Saglia

Essential Astrophysics (SS 17)

Technische Universität München

Diehl

Astrophysics Seminar "Nuclei in the COSMOS" (WS 16/17, SS 17, WS 17/18)

Observational astrophysics (SS 2017)

Eisenhauer

Einführung in die Astrophysik (WS 16/17, WS 17/18)

High Angular Resolution Astronomy: Adaptive Optics and Interferometry (SS 17)

Goethe-Universität Frankfurt

Boller

AGN physics (WS 2016/2017)

Strahlung und Materie (SS 17)

Astrophysikalische Koordinatensysteme, Zeitrechnung, Kalender (SS 17)

University of Bologna, Italy

Dexter

The Galactic Center (SS 17)

Kyoto University, Japan

Diehl

Astrophysics with gamma-ray telescopes (SS 17)

Lehrerakademie Dillingen; Dt. Museum; Kerschensteiner Kolleg

Müller

Astronomie und Kosmologie; Faszination Sonnensystem: (Kleine) Körper, exotische Welten, Planet IX/X? (WS 16/17)

Organisation von wissenschaftlichen Seminaren / Konferenzen

SDSS-IV/SPIDERS Team Meeting, MPE, Garching, Germany 17.01.-18.01., Organisation: A. Merloni.

The Physics of the ISM. 6 Years of ISM-SPP 1573: What have we learned?, Cologne, Germany, 13.02.-17.02., Organisation: J. Alves, P. Caselli, R. Crutcher, B. Elmegreen, F. Heitsch, M. Krumholz, S. Longmore, J. Stutzki.

Multi-scale star formation, Morelia, Mexico, 03.04.-07.04., Organisation: G. Bruzual, P. Caselli, F. Combes, B. Emegreen, N. Evans, L. Hartmann, M. Hoare, S. Lizano, M. MacLow, F. Motte, C. Munoz Tunon, L.F. Rodriguez, M. Urry, E. Vazquez-Semadeni, Q. Zhang.

SKA-Athena Synergy Workshop, Jodrell Bank, UK, 24.04.-25.04., Organisation: R. Cassano, C. Ferrari, R. Fender, A. Merloni.

Small Bodies Near and Far, Poznan, Poland, 04.05.-06.05., Organisation: T. G. Müller, A. Marciniak.

eROSITA-LOFAR Workshop, MPE, Garching, Germany, 15.05.-17.05., Organisation: A. Merloni, A. Finoguenov, H. Roettgering.

Advances in galaxy evolution through a new generation of spectroscopic surveys, Ringberg Castle, Germany, 11.06.-16.06., Organisation: R. Bezanson, C. Conroy, N. M. Förster Schreiber, M. Franx, M. Kriek, R. McLure, A. Newman, L. Pentericci, A. van der Wel.

Current and Future Perspectives of Chemical Modelling in Astrophysics, Hamburg, Germany, 17.07.-19.07., Organisation: R. Banerjee, S. Bovino, P. Caselli, D. Galli, T. Grassi, B. Koertgen, D. Seifried, D. Schleicher, W.-F. Thi.

eROSITA_DE Consortium Meeting, Hamburg, Germany, 17.07.-19.07., Organisation: A. Merloni, P. Predehl, J. Robrade, J. Schmitt.

The Galaxy Ecosystem: flow of Baryons through Galaxies, ESO, Garching, Germany, 24.07.-28.07., Organisation: V. Mainieri, P. Popesso, M. Brusa, M. Cirasuolo, A. de Cia, G. de Lucia, K. Dolag, B. Husemann, A. Man, A. Merloni, O. Gerhard, C. Peroux, G. Popping.

Reaching New Heights in Astronomy — Celebrating ESO's achievements and perspectives from 10 years of Tim de Zeeuw as Director General, Garching, Germany, 28.08.-30.8., Organisation: R. Ivison (chair), R. Bacon, M. Kissler-Patig, K. Kuijken, M. Rejkuba, J.-R. Roy, L.J. Tacconi, M.T. Ruiz, J. Walsh.

12th European Planetary Science Congress (EPSC), Session SB12: Small Bodies Near and Far, Riga, Latvia, 17.09.-22.09., Organisation: T.G. Müller, P. Santos-Sanz.

Small Bodies Near and Far, Konkoly Observatory, Budapest, Hungary, 04.10.-06.10., Organisation: T.G. Müller, C. Kiss.

The Physics of Quenching Massive Galaxies at High Redshift, Lorentz Center, Leiden, The Netherlands, 06.11.-10.11., Organisation: S. Belli, I. Labbé, A. Man, T. Naab, K. Rowlands.

Publikationen

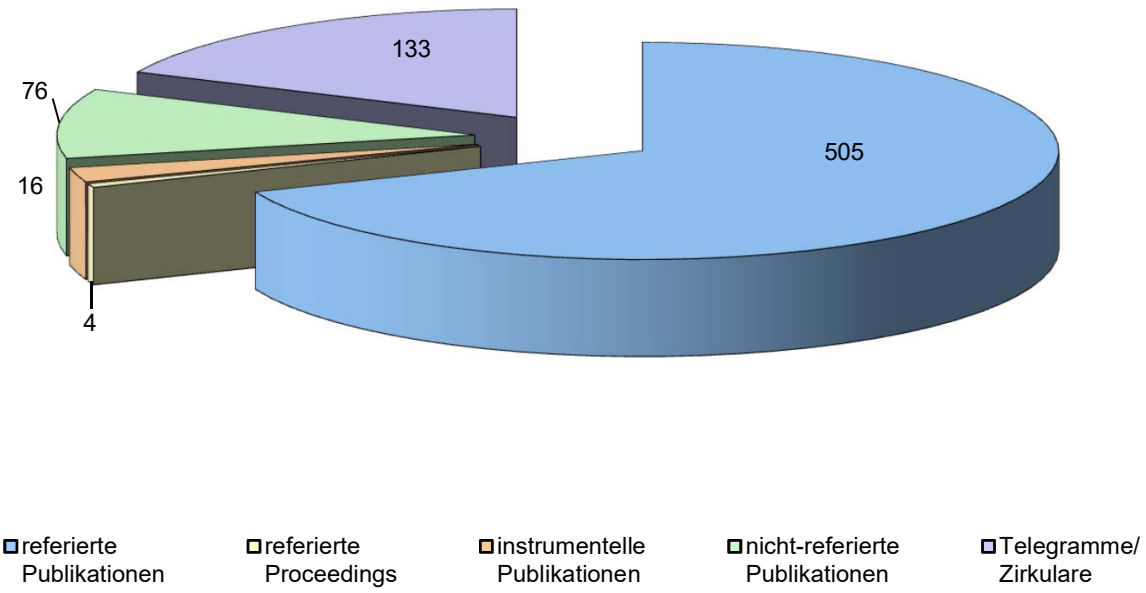
Hier präsentieren wir eine tabularische und graphische Zusammenfassung unserer Veröffentlichungen aus 2017. Die Veröffentlichungen werden nach wissenschaftlicher Arbeitsgruppe und Publikationstyp gezählt. Die Gesamtliste unserer Publikationen aus den verschiedenen Kategorien ist nachfolgend aufgeführt.

Summe der MPE Publikationen in 2017

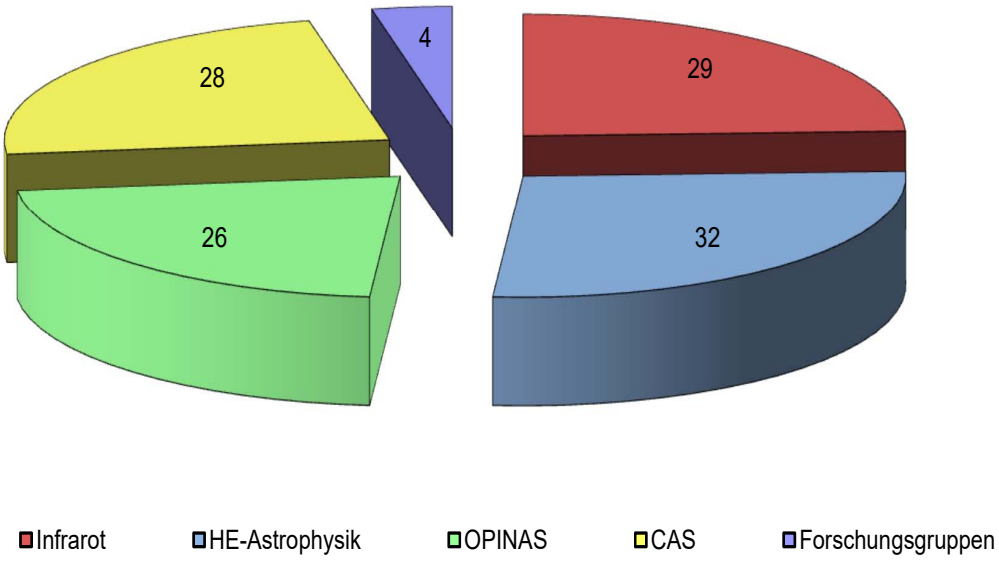
Wissenschaftl. Arbeitsgruppe	referierte Publikationen	referierte Proceedings	Instrument. Publikationen	nicht-referierte Publikationen	Telegramme/ Zirkulare	Vorträge	Poster
IR	29 (139)	0 (01)	1 (01)	1 (05)	4 (10)	92 (131)	6
HE Astrophysik	32 (162)	2 (03)	5 (14)	25 (52)	36 (96)	57 (111)	5
OPINAS	26 (94)	0 (00)	0 (00)	2 (12)	6 (13)	19 (39)	2
CAS	28 (86)	0 (00)	0 (01)	0 (01)	5 (13)	21 (44)	13
Res. Grp	4 (24)	0 (00)	0 (00)	2 (06)	0 (01)	0 (00)	0
Summe	119 (505)	2 (04)	6 (16)	30 (76)	51 (133)	189 (325)	26

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

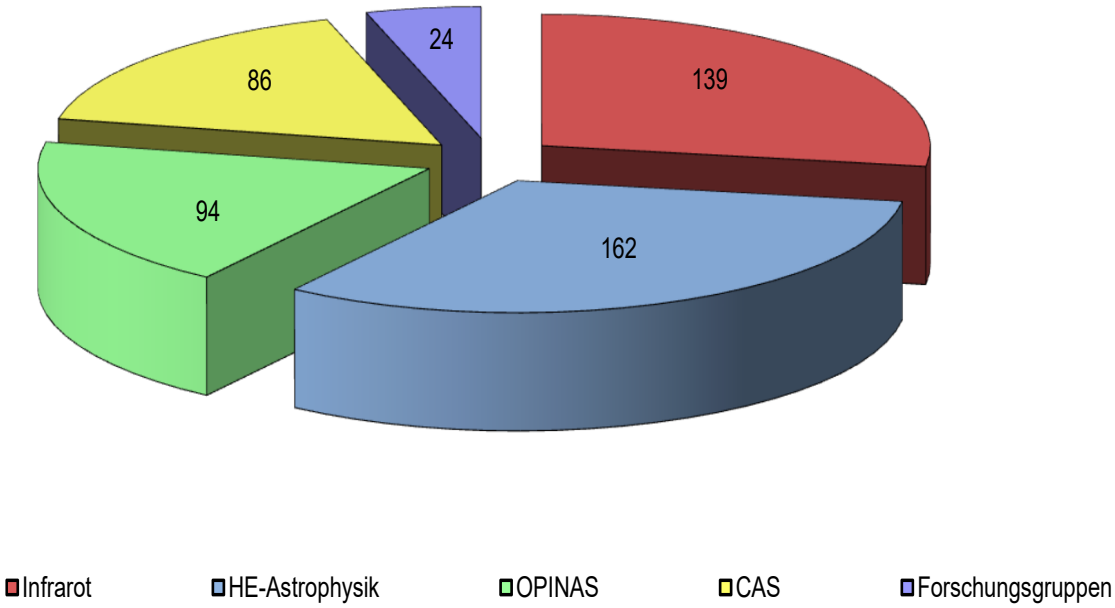
MPE Publikationen 2017 (nach Typ)

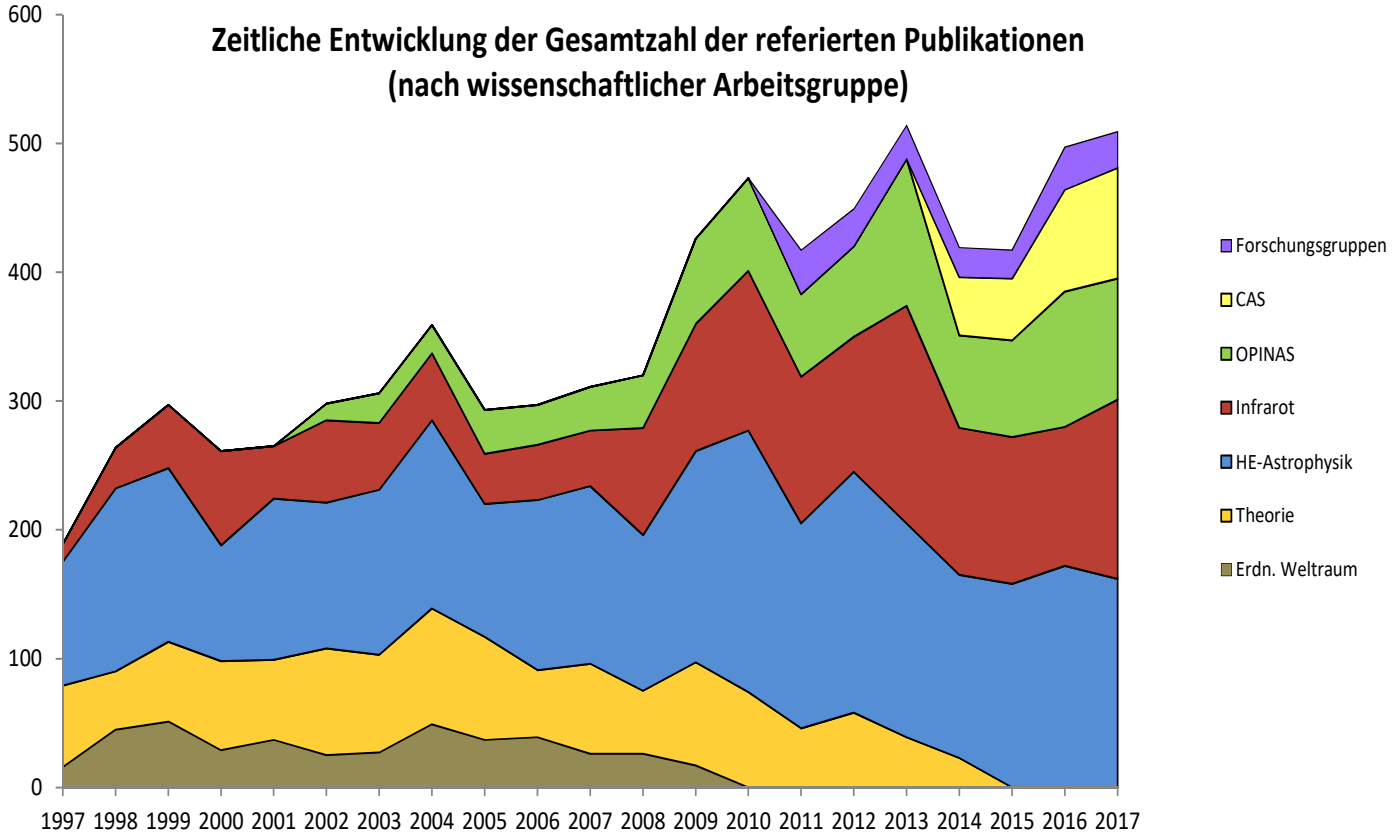


Referierte Publikationen mit MPE Erstautor in 2017 (nach wissenschaftlicher Arbeitsgruppe)



Gesamtzahl der referierten MPE Publikationen in 2017 (nach wissenschaftlicher Arbeitsgruppe)




Zeitliche Entwicklung der Gesamtzahl der referierten Publikationen
(nach wissenschaftlicher Arbeitsgruppe)
600
500
400
300
200
100
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017
Forschungsgruppen
CAS
OPINAS
Infrarot
HE-Astrophysik
Theorie
Erdn. Weltraum

Referierte Publikationen

Abbott, B.P., R. Abbott, T.D. Abbott, ..., A. v. Kienlin, ..., R. Diehl, et al.: Gravitational W and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. Ap. J. Lett. 848, L13 (2017).

Abbott, B.P., R. Abbott, T.D. Abbott, ..., J.J. Mohr, ..., A. v. Kienlin, ..., T.-W. Chen, T. Krühler, P. Schady, P. Wiseman, J. Greiner, A. Rau, T. Schweyer, ... R. Diehl, et al.: Multi-messenger Observations of a Binary Neutron Star Merger. Ap. J. Lett. 848, L12 (2017).

Abbott, B.P., R. Abbott, T.D. Abbott, ..., A. Rau, ..., A v. Kienlin, X. Zhang, et al.: Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. Ap. J. 841, 89 (2017).

Abdollahi, S., M. Ackermann, M. Ajello, ..., A.W. Strong, et al.: Search for Cosmic-Ray Electron and Positron Anisotropies with Seven Years of Fermi Large Area Telescope Data. Phys. Rev. Lett. 118, 091103 (2017).

Abdullah, A., B.R. Brandl, B. Groves, ..., R. Herrera-Camus, et al.: The Origin of [C II] 157 μm Emission in a Five-component Interstellar Medium: The Case of NGC 3184 and NGC 628. Ap. J. 842, 4 (2017).

Accurso, G., A. Saintonge, B. Catinella, L. Cortese, R. Davé, S.H. Dunsheath, R. Genzel, J. Gracia-Carpio, T.M. Heckman, C. Kramer, C. Li, K. Lutz, D. Schiminovich, K. Schuster, A. Sternberg, E. Sturm, L.J. Tacconi, K.V. Tran and J. Wang: Deriving a multivariate αCO conversion function using the [C II]/CO (1-0) ratio and its application to molecular gas scaling relations. Mon. Not. R. Astron. Soc. 470, 4750-4766 (2017).

Accurso, G., A. Saintonge, T.G. Bisbas and S. Viti: Radiative transfer meets Bayesian statistics: where does a galaxy's [C II] emission come from?. Mon. Not. R. Astron. Soc. 464, 3315-3330 (2017).

Adhikari, R., M. Agostini, N.A. Ky, ..., F. Hofmann, et al.: A White Paper on keV sterile neutrino Dark Matter. J. of Cosmology and Astroparticle Phys. 1, 025 (2017).

Aird, J., A.L. Coil and A. Georgakakis: X-rays across the galaxy population - I. Tracing the main sequence of star formation. Mon. Not. R. Astron. Soc. 465, 3390-3415 (2017).

Akiyama, K., K. Kuramochi, S. Ikeda, V.L. Fish, F. Tazaki, M. Honma, S.S. Doeleman, A.E. Broderick, J. Dexter, M. Mościbrodzka, K.L. Bouman, A.A. Chael and M. Zaizen: Imaging the Schwarzschild-radius-scale Structure of M87 with the Event Horizon Telescope Using Sparse Modeling. Ap. J. 838, 1 (2017).

Akiyama, K., S. Ikeda, M. Pleau, V.L. Fish, F. Tazaki, K. Kuramochi, A.E. Broderick, J. Dexter, M. Mościbrodzka, M. Gowanlock, M. Honma and S.S. Doeleman: Superresolution Full-polarimetric Imaging for Radio Interferometry with Sparse Modeling. Astron. J. 153, 159 (2017).

Alam, S., M. Ata, S. Bailey, ..., A.G. Sánchez, et al.: The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological analysis of the DR12 galaxy sample. Mon. Not. R. Astron. Soc. 470(3), 2617-2652 (2017).

Albareti, F. D., C. Allende Prieto, A. Almeida, ..., N. Clerc, ..., T. Dwelly, ..., A. Merloni, ..., K. Nandra, ..., J. Ridl, ..., M. Salvato, ..., A.G. Sanchez, et al.: The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. Ap. J. 233 (2017).

Alves, F.O., J.M. Girart, P. Caselli, G.A.P. Franco, B. Zhao, W.H.T. Vlemmings, M.G. Evans and L. Ricci: Molecular outflow launched beyond the disk edge. Astron. Astrophys. 603, L3 (2017).

Alí-Lagoa, V. and M. Delbo': Sizes and albedos of Mars-crossing asteroids from WISE/NEOWISE data. Astron. Astrophys. 603, A55 (2017).

Ananna, T.T., M. Salvato, S. La Massa, C.M. Urry, N. Cappelluti, C. Cardamone, F. Civano, D. Farrah, M. Gilfanov, E. Glikman, M. Hamilton, A. Kirkpatrick, G. Lanzuisi, S. Marchesi, A. Merloni, K. Nandra, P. Natarajan, G.T. Richards and J. Timlin: AGN Populations in Large-volume X-Ray Surveys: Photometric Redshifts and Population Types Found in the Stripe 82X Survey. Ap. J. 850, 66 (2017).

Anastassopoulos, V., S. Aune, K. Barth, A. Belov, H. Bräuninger, et al.: New CAST limit on the axion-photon interaction. Nature Physics 13, 584-590 (2017).

Anathpindika, S., A. Burkert and R. Kuiper: On the impact of the magnitude of interstellar pressure on physical properties of molecular cloud. Mon. Not. R. Astron. Soc. 466, 4633-4650 (2017).

Andrade-Santos, F., C. Jones, W.R. Forman, L. Lovisari, A. Vikhlinin, R.J. van Weeren, S.S. Murray, M. Arnaud, G.W. Pratt, J. Démoclès, R. Kraft, P. Mazzotta, H. Böhringer, G. Chon, S. Giacintucci, T.E. Clarke, S. Borgani, L. David, M. Douspis, E. Pointecouteau, H. Dahle, S. Brown, N. Aghanim and E. Rasia: The Fraction of Cool-core Clusters in X-Ray versus SZ Samples Using Chandra Observations. Ap. J. 843, 76 (2017).

Ansdell, M., J.P. Williams, C.F. Manara, A. Miotello, S. Facchini, N. van der Marel, L. Testi and E.F. van Dishoeck: An ALMA Survey of Protoplanetary Disks in the σ Orionis Cluster. Astron. J. 153, 240 (2017).

Antonellini, S., J. Bremer, I. Kamp, P. Riviere-Marichalar, F. Lahuis, W.-F. Thi, P. Woitke, R. Meijerink, G. Aresu and M. Spaans: Mid-IR water and silicate relation in protoplanetary disks. Astron. Astrophys. 597, A72 (2017).

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Poster

Agurto-Gangas, C. et al.: Grain growth in Class I protostar Per-emb-50: A dust continuum analysis with NOEMA & SMA, Francesco's Legacy Conference Star Formation in Space and Time, Florence, Italy, June 2017.

Alí-Lagoa, V. et al.: Physical and thermal properties of asteroids in the "Small bodies, near and far" project, The Cosmic Wheel and the Legacy of the AKARI archive: from galaxies and stars to planets and life, Tokyo, Japan, October 2017.

Alí-Lagoa, V. et al.: Updated asteroid diameters and albedos from AKARI/IRC mid-infrared data, Asteroids, Comets, Meteors 2017, Montevideo, Uruguay, April 2017.

Cazzoletti, P. et al.: CN fluxes and rings in full protoplanetary disks around young stars, IAUS 332: Astrochemistry VII – Through the Cosmos from Galaxies to Planets, Puerto Varas, Chile, March 2017.

Cazzoletti, P. et al.: HD135344B: Vortices, spirals and planets, Exoplanets and Planet Formation, Shanghai, China, Decmber 2017.

Chacon-Tanarro, A. et al.: Deuterated methanol map towards L1544, Francesco's Legacy: Star Formation in Space and Time, Florence, Italy, June 2017.

Chantzos, J. et al.: Direct Absorption Rotational Spectroscopy at the Centre for Astrochemical Studies, Laboratory Astrophysics Workshop 2017, Bonn, Germany, November 2017.

Cortes, A. et al.: ERIS, first generation becoming second generation, or re-vitalizing an AO instrument, Adaptive Optics for Extremely Large Telescopes, Tenerife, Spain, June 2017.

Del Moro, A. et al.: Luminous and obscured quasars and their host galaxies, Quasars at all cosmic epochs, Padua, Italy, April 2017.

Endres, C. P. et al.: Collision induced transitions of ammonia revisited, HRMS 2017, Helsinki, Finland, August 2017.

Fahrenschon, V. et al.: Relativistic Effects in Spectroscopic Binary Stars - Paving the way to precise stellar mass determinations, DPG-Frühjahrstagung, Bremen, Germany, March 2017.

Fahrenschon, V. et al.: The Fiber Optics Cassegrain Echelle Spectrograph, 5th EIROforum School on Instrumentation, Hamburg, Germany, June 2017.

Hocuk, S. et al.: Chemical signatures of magnetized cloud cores, Molecules in Space: Linking the Interstellar Medium to the (exo)planets, Washington D.C., U.S.A., August 2017.

Jimenez-Rosales, A. et al.: Impact of Faraday effects on event horizon scale GRMHD images of Sgr A*, Submm/mm/cm QUESO Workshop 2017, Garching, Germany, October 2017.

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Müller, T.G. et al.: Small Bodies Near and Far (SBNAF): Characterization of asteroids and TNOs, European Planetary Science Congress (EPSC), Riga, Latvia, September 2017.

Punanova, A. et al.: The multi-tracer kinematics of a Taurus filament, IAU Symposium S332 Astrochemistry VII – Through the Cosmos from Galaxies to Planets, Puerto Varas, Chile, March 2017.

Redaelli, E. et al.: The dynamics of a young protostellar core, Francesco's Legacy - Star Formation in Space and Time, Florence, Italy, June 2017.

Rosensteiner, M. et al.: The ARGOS vibration compensation system, AO4ELT5 (Adaptive Optics for Extremly Large Telescopes), Tenerife, Spain, June 2017.

Siegert, T. et al.: Gamma-Ray Observations of Nova Sgr 2015 No. 2, INTEGRAL Symposium 2017 "Energetic Time Domain Astrophysics", Venice, Italy, October 2017.

Simm, T. et al.: Reverberation Mapping Quasars: X-ray and broadband SED properties, EWASS 2017, Prague, Czech Republic, June 2017.

Stehlíková, V. et al.: Study of multiple layers coatings for X-ray mirrors, International Workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December 2017.

Szücs, L. et al.: Chemical post-processing of GMC simulations, Current and Future Perspectives of Chemical Modelling in Astrophysics, Hamburg, Germany, July 2017.

Szücs, L. et al.: Gas-phase and grain surface chemistry in hydrodynamic simulations, Astrochemical conference KIDA 2017, Bordeaux, France, October 2017.

Waisberg, I.: Optical Interferometry of HMXBs with VLTI/GRAVITY: the cases of BP Cru and SS 433, EWASS 2017, Prague, Czech Republic, June 2017.

Vorträge

Agurto-Gangas, C.: Grain growth in Class I protostar: Peremb-50, contributed talk, MIAPP Workshop: Protoplanetary Disks and Planet Formation and Evolution, Garching, Germany, August 2017.

Alí-Lagoa, V.: Asteroids and the solar system: insights from the thermal infrared, contributed talk, The Cosmic Wheel and the Legacy of the AKARI archive: from galaxies and stars to planets and life, Tokyo, Japan, October 2017.

Alí-Lagoa, V.: Studies of small bodies in the thermal infrared, contributed talk, Konkoly Observatory, Budapest, Hungary, March 2017.

Alves, F. O.: Polarization and chemistry in the early stages of star formation, contributed talk, Medi interestellari radio astronomia a Catalunya: el llegat de Robert Estalella, Barcelona, Spain, December 2017.

Bauböck, M: Neutron Star Pulse Profiles with NICER, invited talk, New Perspectives on Neutron Star Interiors, Trento, Italy, October 2017.

Beifiori, A.: Tracing the Evolution of Passive Galaxies in Clusters at1.4<z<1.6 with KMOS and HST, contributed talk, Conference Galaxy Evolution Across Time. Paris, France, June 2017.

Beifiori, A.: The KMOS Cluster Survey - KCS: Timing the Formation of Passive Galaxies in Clusters at 1.4<z<1.6, contributed talk, Conference Early stages of Galaxy Cluster Formation (GCF) 2017: Mergers, Protoclusters, and Star Formation in Overdense Environments, Garching, Germany, July 2017.

Belli, S.: Flame: a Flexible Data Reduction Pipeline for LUCI, contributed talk, Large Binocular Telescope Observatory 2017 Users' Meeting, Florence, Italy, June 2017.

Belli, S.: KMOS-3D Reveals Hα Emission in High-Redshift Quiescent Galaxies, contributed talk, The Galaxy Ecosystem. Flow of Baryons through Galaxies, Garching, Germany, July 2017.

Belli, S.: KMOS-3D Reveals Hα Emission in High-Redshift Quiescent Galaxies, contributed talk, The Physics of Quenching Massive Galaxies at High Redshift, Leiden, Netherlands, November 2017.

Belli, S.: KMOS-3D Reveals Hα Emission in High-Redshift Quiescent Galaxies, invited talk, Advances in Galaxy Evolution through a New Generation of Spectroscopic Surveys, Ringberg, Germany, June 2017.

Belli, S.: The Formation and Evolution of Massive Galaxies, colloquium, Universite de Montreal, Montreal, Canada, October 2017.

Bender, R.: Das dunkle Universum: Hinweise auf Materie und Energie jenseits der bekannten Physik, public talk, MPE Tag der offenen Tür, Garching, Germany, October 2017.

Boller, Th.: 2RXS: the deepest and cleanest X-ray all-sky catalogue before eROSITA, invited talk, Multifrequency Behavior of High Energy Cosmic Sources XII, Palermo, Italy, June 2017.

Boller, Th.: 4MOST Optimization Strategy, invited talk, 4MOST Data Flow Design Review, Lund, Sweden, March 2017.

Boller, Th.: 4MOST Science Optimization, invited talk, 4MOST All-Hands-Meeting, Lyon, France, September 2017.

Boller, Th.: Anfang und Ende des Universums, public talk, Kepler Planetarium Nünberg, Nünberg, Germany, October 2017.

Boller, Th.: Anfang und Ende des Universums, public talk, VHS Hallbergmoos, Hallbergmoos, Germany, October 2017.

Boller, Th.: Die Entwicklung des Universums, public talk, Rotary Club München 100, Hotel Bayerischer Hof, Munich, Germany, January 2017.

Boller, Th.: Die wahre Geschichte des Sterns von Bethlehem, public talk, VHS Hallbergmoos, Hallbergmoos, Germany, November 2017.

Boller, Th.: Observational tests of the pseudo-complex theory with black hole imaging, invited talk, FIAS International Symposion on Discoveries at the Frontiers of Science, Frankfurt am Main, Germany, June 2017.

Boller, Th.: Test of modified GR theories with EHT observations, invited talk, Multifrequency Behavior of High Energy Cosmic Sources XII, Palermo, Italy, June 2017.

Boller, Th.: Anfang und Ende des Universums: wie alles begann, wie alles endet, public talk, MPE Tag der offenen Tür, Garching, Germany, October 2017.

Burwitz, V.: Building an X-ray Telescope: Developing, Testing and Calibrating eROSITA, invited talk, School of Physics and Astronomy - University of Southampton, Southampton, United Kingdom, May 2017.

Burwitz, V.: Der Weltraum im Labor, public talk, Café und Kosmos, Munich, Germany, March 2017.

Burwitz, V.: Developing, testing, and calibrating the ATHENA optics at PANTER, contributed talk, Optics for EUV, X-ray, and Gamma-ray Astronomy VIII, SPIE, San Diego, USA, August 2017.

Burwitz, V.: Mirrors: Test them on ground and/or in space, invited talk, Wide Band Spectral and Timing Studies of Cosmic X-ray Sources, Mumbai, India, January 2017.

Burwitz, V.: PANTER: The AHEAD X-Ray Optics Joint Research Activity in the Light of ATHENA, invited talk, AXRO - International workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December, 2017.

Burwitz, V.: Status of the calibration of eROSITA, contributed talk, 12th IACHEC meeting, Lake Arrowhead, USA, March 2017.

Burwitz, V.: Synergies with eROSITA, invited talk, Astrophysics mission Synergy workshop, Caltech, Pasadena, USA, March 2017.

Burwitz, V.: e-ROSITA status and synergies with SVOM, contributed talk, Second SVOM scientific workshop:

Surveying the Fast Changing Multiwavelength Sky with SVOM, Qiannan, China, April 2017.

Carpano, S.: Discovery of a 26.2 day period in the long-term X-ray light curve of the Be/X-ray pulsar SXP1323, contributed talk, "The X-ray Universe 2017" Symposium, Rome, Italy, June 2017.

Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, Leiden University, Leiden, The Netherlands, June 2017.

Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, NRAO, Charlottesville, NRAO, August 2017.

Caselli, P.: Astrochemistry at the dawn of star and planet formation in the ALMA era, colloquium, Caltech, Pasadena, USA, November 2017.

Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, INAF-Osservatorio Astrofisico di Catania, Catania, Italy, January 2017.

Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, NAOJ, Tokyo, Japan, April 2017.

Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, University of Cardiff, School of Physics and Astronomy, Cardiff, UK, April 2017.

Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, Xiamen University, Astronomy Department, Xiamen, China, April 2017.

Caselli, P.: Conference Summary, invited talk, Current and future perspectives of chemical modelling in astrophysics, Hamburg, Germany, July 2017.

Caselli, P.: Le nostre origini astrochimiche, public talk, Astri di Maremma - I incontro nazionale, Gavorrano, Italy, September 2017.

Caselli, P.: Molecular inventory of dark clouds: observations and theory, invited talk, Molecules in Space: Linking the interstellar medium to (exo)planets, Washington DC, USA, August 2017.

Caselli, P.: Observations and modelling of COMs in prestellar cores, invited talk, COST CM 1401: Our Astrochemical History, Ciudad Real, Spain, December 2017.

Caselli, P.: Our Astrochemical Heritage, invited talk, Star Formation in Space and Time, Florence, Italy, June 2017.

Caselli, P.: The gas and dust interplay in star forming regions, invited talk, David William's 80th Birthday Conference, London, UK, September 2017.

Caselli, P.: Our Astrochemical Origins, public talk, MPE Tag der offenen Tür, Garching, Germany, October 2017.

Cazzoletti, P.: Corona Australis: (very) low-mass disks in a young star forming region, contributed talk, Milan Christmas Workshop, Milan, Italy, December 2017.

Cazzoletti, P.: Rings, rings, rings: what does CN tell us?, contributed talk, The Formation and Evolution of Planets and Their Discs, Garching bei München, Germany, June 2017.

Chantzos, J.: The c-C3HD/c-C3H2 ratio in low mass star forming regions, contributed talk, International Symposium on Molecular Spectroscopy, Urbana-Champaign, USA, June 2017.

Chen, T.-W.: A kilonova as the electromagnetic counterpart to a gravitational-wave source, colloquium, Max Planck Institute for Gravitational Physics, Hannover, Germany, October 2017.

Chen, T.-W.: Giant explosions in dwarf hosts - Superluminous supernovae and their host galaxies, contributed talk, Serendipities in the Solar System and Beyond - celebrating Prof. Wing Ip's 70th, Taoyuan, Taiwan, July 2017.

Chen, T.-W.: Superluminous supernovae and their host galaxies, colloquium, ESO Santiago, Santiago, Chile, September 2017.

Chen, T.-W.: Superluminous supernovae and their host galaxies, contributed talk, Asian-Pacific Regional IAU Meeting, Taipei, Taiwan, July 2017.

Chen, T.-W.: Superluminous supernovae, public talk, Astrobooks store, Taichung, Taiwan, July 2017.

Chen, T.-W.: The electromagnetic counterpart of the gravitational wave source GW170817, invited talk, IAU Symposium 339: Southern Horizons in Time-Domain Astronomy, Stellenbosch, South Africa, November 2017.

Collmar, W.: CGRO/COMPTEL Observations of Gamma-Ray Binaries at MeV Enegies, contributed talk, Variable Galactic Gamma-Ray Sources (IV), Tokyo, Japan, July 2017.

Davies, R. L.: Ionized Gas Outflows at the Peak Epoch of Star Formation from the KMOS-3D and SINS Surveys, contributed talk, Sharp Views of Galaxy Formation and Evolution, Sendai, Japan, November 2017.

Del Moro, A.: Average broad-band X-ray spectra of the NuSTAR AGN, contributed talk, The X-ray Universe 2017, Rome, Italy, June 2017.

Dennerl, K.: An empirical method for improving the XMM-Newton/EPIC-pn RMF and ARFs, contributed talk, 12th IACHEC Meeting (International Astronomical Consortium for High Energy Calibration), Lake Arrowhead (California), USA, March 2017.

Dennerl, K.: Ground-based Calibration, contributed talk, German eROSITA Consortium meeting, Hamburg, Germany, July 2017.

Dennerl, K.: Improving the EPIC-pn RMF, contributed talk, XMM-Newton EPIC Calibration Meeting, Garching, Germany, April 2017.

Dennerl, K.: Thoughts about randomization, contributed talk, XMM-Newton EPIC Calibration Meeting, Garching, Germany, April 2017.

Dennerl, K.: X-rays from the Solar System, invited talk, The X-ray Universe 2017, Rome, Italy, June 2017.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, Black Hole Initiative, Cambridge, USA, November 2017.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, INAF Bologna, Bologna, Italy, May 2017.

Dexter, J.: HII regions as the physical origin of intense interstellar scattering, invited talk, Pulsar Scintellometry, Toronto, Canada, October 2017.

Dexter, J.: Imaging a supermassive black hole, invited talk, Institute of Physics Gravitational Physics annual meeting, London, UK, September 2017.

Dexter, J.: Sgr A*: extreme gravity, ordinary accretion, invited talk, EWASS 2017, Prague, Czech Republic, June 2017.

Dexter, J.: Testing MHD Accretion Theory with Event Horizon Scale Observations of Low-luminosity AGN, invited talk, Kavli Institute for Theoretical Physics, Santa Barbara, USA, Feb 2017.

Dexter, J.: VLTI GRAVITY: A new era for optical interferometry, colloquium, Center for Astrophysics, Cambridge, USA, November 2017.

Dexter, J.: Variable and changing look AGN as probes of accretion physics, invited talk, Unveiling the Physics Behind Extreme AGN Variability, St. Thomas, USA, July 2017.

Diehl, R.: Cosmic gamma-ray line astrophysics, colloquium, DESY Astrophysics Colloquium, Zeuthen, Germany, July 2017.

Diehl, R.: Ejecta flows from sources through the interstellar medium, contributed talk, Workshop "Physics of the ISM", Berlin, Germany, January 2017.

Diehl, R.: Gamma-ray Line Measurements from Supernovae, contributed talk, IAU Symposium 331 "SN1987A, 30 years later", St Gilles Les Bains, La Reunion, France, February 2017.

Diehl, R.: Gamma-ray lines from supernovae, contributed talk, Workshop "Progenitor-supernova-remnant connection", Ringberg Castle, Germany, July 2017.

Diehl, R.: Gamma-ray spectroscopy and white dwarf stars, invited talk, Workshop "From cooling to explosion: The physics of white dwarfs", Tossa de Mar, Spain, June 2017.

Diehl, R.: Gamma-ray spectroscopy of cosmic radioactivity, invited talk, Workhop "Nuclear structure and explosive nucleosynthesis", Beijing, P.R. China, November 2017.

Diehl, R.: Gamma-ray spectroscopy of cosmic sources, colloquium, Astrophysics Colloquium of the IPMU/Kavli Institute, Kashiwanoha-Campus, Japan, September 2017.

Diehl, R.: Gamma-ray spectroscopy of cosmic sources, colloquium, Colloquium of the Kyoto University Physics and Astronomy Departement, Kashiwanoha-Campus, Japan, September 2017.

Diehl, R.: Gamma-ray spectroscopy of cosmic sources, colloquium, Colloquium of the Kyoto University Physics and Astronomy Departement, Kyoto, Japan, September 2017.

Diehl, R.: Gamma-ray spectroscopy of cosmic sources, contributed talk, JINA-CEE Workshop "Forging connections from nuclei to the cosmic web", East Lansing, USA, June 2017.

Diehl, R.: Multi-messenger astrophysics: Gamma-ray counterparts of gravitational wave sources, invited talk, KAT Astroparticle Strategy Workhop, Bad Honnef, Germany, November 2017.

Diehl, R.: Observing stellar feedback in the Sco-Cen region, contributed talk, DFG-SP 1553 Workshop "Physics of the ISM", Cologne, Germany, February 2017.

Diehl, R.: SN Ia issues and MeV observations, contributed talk, Workhop "Stellar evolution, supernovae, and nucleosynthesis across cosmic time", Kashiwanoha-Campus, Japan, September 2017.

Diehl, R.: SN Ia issues and MeV observations, invited talk, Workhop "Nuclear structure and explosive nucleosynthesis", Beijing, P.R. China, November 2017.

Diehl, R.: The interstellar medium and star formation, invited talk, IMPRS Student Symposium, Garching, Germany, October 2017.

Diehl, R.: eAstrogam: Towards a new space mission for gamma-ray astronomy, contributed talk, IAU Symposium 331 "SN1987A, 30 years later", St Gilles Les Bains, La Reunion, France, February 2017.

Dwelly, T.: The eROSITA Sky Explorer, contributed talk, German eROSITA Consortium meeting, Hamburg, Germany, July 2017.

Eisenhauer, F.: Approaching the Event Horizon of the Galactic Center Black Hole, invited talk, DPG-Frühjahrstagung, Bremen, Germany, March 2017.

Eisenhauer, F.: First Light of GRAVITY, invited talk, VLTI community days, Garching, Germany, March 2017.

Eisenhauer, F.: GRAVITY in the Galactic Center, contributed talk, Stellar Dynamics in Galactic Nuclei, Princeton, USA, November 2017.

Eisenhauer, F.: The Massive Black Hole in the Galactic Center, invited talk, Reaching New Heights in Astronomy, Garching, Germany, August 2017.

Endres, C. P.: Studies of rotational spectra and collision-induced transitions using broad band devices, contributed talk, LabAstro 2017, Bonn, Germany, November 2017.

Facchini, S.: Review on protoplanetary disks theory, invited talk, Milan Christmas Workshop, Milan, Italy, December 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, colloquium, INAF, Florence, Italy, February 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, colloquium, IfA, Honolulu, USA, November 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, colloquium, USM, Munich, Germany, May 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, contributed talk, CfA, Harvard University, Cambridge, USA, November 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, contributed talk, IAU Astrochemistry Symposium, Puerto Varas, Chile, March 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, contributed talk, Planet Formation and Evolution, Jena, Germany, September 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, contributed talk, Protoplanetary Disks and Planet Formation and Evolution, Garching, Germany, June 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, contributed talk, Rice University, Houston, USA, November 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, contributed talk, University of Michigan, Ann Arbor, USA, November 2017.

Facchini, S.: The interplay between gas and dust in protoplanetary disks, invited talk, MPIA, Heidelberg, Germany, July 2017.

Facchini, S.: The revolution of exo-planets, public talk, University of Milan, Milan, Italy, November 2017.

Fossati, M.: A panoramic look at gas stripping phenomena in local clusters of galaxies with MUSE and CFHT, contributed talk, Galaxy Evolution and Environment 5, Florence, Italy, November, 2017.

Fossati, M.: Witnessing the onset of environmental quenching at z 1-2. Results and implications for the gas content of high redshift galaxies, contributed talk, The galaxy ecosystem, ESO Garching, Germany, July 2017.

Fossati, M.: Witnessing the onset of environmental quenching at z 1-2. Results and implications from 3D-HST, contributed talk, Early stages of Galaxy Cluster Formation, ESO Garching, Germany, July 2017.

Fossati, M.: Witnessing the onset of environmental quenching at z 1-2. Results from 3D-HST, contributed talk, Galaxy Evolution Across Time, Paris, France, June, 2017.

Fossati, M.: Environmentally driven suppression of star formation during the last 10 Gyr from MUSE and 3D-HST, colloquium, University of Durham, UK, May 2017.

Fossati, M.: A spatially resolved view of gas stripping processes in nearby clusters of galaxies, invited talk, Ringberg castle meeting on Galaxy Evolution in Groups and Clusters, Germany, December 2017.

Fossati, M.: Resolving the Physics of gas stripping phenomena in local clusters of galaxies with MUSE, invited talk, European week of astronomy and space sciences, Prague, Czech Republic, June 2017.

Friedrich, P.: Glass Slumping of Grazing Incidence Mirrors for Astronomical X-Ray Telescopes, contributed talk, 91. Glastechnische Tagung, Weimar, Germany, May 2017.

Friedrich, P.: Leichtgewichtige Optiken aus abgesenktem Dünnglas für die Röntgen-Astronomie, invited talk, Schott Glas GmbH, F&E-Seminar, Mainz, Germany, September 2017.

Friedrich, P.: Status of the eROSITA Telescope, invited talk, International Workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December 2017.

Förster Schreiber, N. M.: Exploring galaxy evolution with near-IR IFUs, invited talk, Sharp views of galaxy formation and evolution, Sendai, Japan, November 2017.

Förster Schreiber, N. M.: Frontiers in near-IR IFU exploration of galaxy evolution, invited talk, Exploring the puzzles of the Universe from the event horizon to the large-scale cosmic web, Ringberg, Germany, October 2017.

Förster Schreiber, N. M.: Galaxy Evolution at the Peak Epoch of Cosmic Star Formation: Witnessing In-situ the Growth and Transformations of Young Galaxies, colloquium, University of Oxford, Oxford, United Kingdom, February 2017.

Förster Schreiber, N. M.: Galaxy Evolution at the Peak Epoch of Cosmic Star Formation: Witnessing In-situ the Growth of Young Galaxies, colloquium, University of Bath, Bath, United Kingdom, February 2017.

Förster Schreiber, N. M.: High redshift perspective of star formation, invited talk, Linking Observations and Theory Across the Scales of Star Formation in Galaxies, Sesto, Italy, July 2017.

Förster Schreiber, N. M.: KMOS3D, invited talk, Advances in galaxy evolution through a new generation of spectroscopic surveys, Ringberg, Germany, June 2017.

Galametz, A.: A large-scale super-structure at z~0.65 in the UKIDSS ultra-deep survery field, contributed talk, Conference Early stages of Galaxy Cluster Formation (GCF) 2017: Mergers, Protoclusters, and Star Formation in Overdense Environments, Garching, Germany, July 2017.

Galametz, A.: Prescription for Galactic extinction in Euclid, "Photo-Z Workshop for Large Surveys 2017", contributed talk, Sendai, Japan, May 2017.

Genzel, R.: 40 Years of Infrared Astronomy at MPE, invited talk, Introductory Talk of the Genzel Fest, Ringberg, Germany, October 2017.

Genzel, R.: Cold Gas Content and Star Formation Efficiency, invited talk, ESO Conference "The Galaxy Ecosystem. Flow of Baryons through Galaxies", Garching, Germany, July 2017.

Genzel, R.: Constraints on Baryons and Dark Matter from Rotation Curves in Distant Galaxies, colloquium, Sharp Views of Galaxy Formation and Evolution, Japan (JSPS)-German (DAAD) Workshop 2017, Tohoku University, Sendai, Japan, November 2017.

Genzel, R.: Die Jagd nach dem Schwarzen Loch, invited talk, Vortrag zu 200 Jahre Fraunhoferlinien - der Siegeszug der Spektroskopie, Bayerische Akademie der Wissenschaften, Munich, Germany, November 2017.

Genzel, R.: ESO's Quest for High Resolution Astronomy, invited talk, Reaching New Heights in Astronomy - Celebrating ESO's Achievements and Perspectives from 10 Years of Tim de Zeeuw as Director General, Garching, Germany, August 2017.

Genzel, R.: Kinematics of Massive Star Forming Disks at z~1-2: Outflows, Rotation Curves and Baryon Content, colloquium, Astro Seminar, University of Jerusalem, Jerusalem, Israel, December 2017.

Genzel, R.: Kinematics, Rotation Curves and Scaling Relations of z=0.7-2.7 Star-Forming Disks, invited talk, Galaxy Formation Workshop, Santa Cruz, USA, August 2017.

Genzel, R.: Mass Budgets, Kinematics, and ISM Conditions of 1<z<3 Star-Forming Galaxies, colloquium, Astronomy Department, University of California, Berkeley, Berkeley, USA, January 2017.

Genzel, R.: Testing General Relativity with Infrared Interferometry of the Massive Black Hole in the Galactic Center, invited talk, Annual Meeting of the IPS (Israel Physical Society), Technion, Haifa, Haifa, Israel, December 2017.

Genzel, R.: Testing General Relativity with Infrared Interferometry of the Massive Black Hole in the Galactic Center: An Homage to Charles Hard Townes, colloquium, Physics

Department, University of California, Berkeley, Berkeley, USA, September 2017.

Genzel, R.: Testing General Relativity with Stellar Orbits around the Massive Black Hole in the Galactic Center, colloquium, Sharp Views of Galaxy Formation and Evolution, Japan (JSPS)-German (DAAD) Workshop 2017, Tohoku University, Sendai, Sendai, Japan, November 2017.

Genzel, R.: Testing General Relativity with Infrared Interferometry of the Massive Black Hole in the Galactic Center, invited talk, Colloquium Institute for Astronomy, University of Amsterdam, Amsterdam, The Netherlands, December 2017.

Genzel, R.: Testing General Relativity with Infrared Interferometry of the Massive Black Hole in the Galactic Center, invited talk, Physics Colloquium, Rosenblum Memorial Lecture, University of Jerusalem, Jerusalem, Israel, December 2017.

Genzel, R.: The Early Evolution of Galactic Disks: Structure, Dynamics and Feedback, invited talk, Sexten Workshop: Disk Instabilities Across Cosmic Scales, Sexten, Italy, July 2017.

Genzel, R.: The Quest for the Galactic Center Massive Black Hole, invited talk, Symposium in Honor of K.Y. Lo, Taipeh, Taiwan, May 2017.

Genzel, R.: Wo ist die Dunkle Materie im fruehen Universum?, invited talk, Physikalisches Kolloquium, Universität Tübingen, Tübingen, Germany, November 2017.

Genzel, R.: Massive Schwarze Löcher und Galaxien, public talk, MPE Tag der offenen Tür, Garching, Germany, October 2017.

Gerhard, O.: Dynamical and chemo-dynamical models for the barred inner Milky Way, colloquium, Joint colloquium, STScI and Hopkins Univ., Baltimore, USA, October 2017.

Gerhard, O.: Dynamical and chemo-dynamical models of the barred inner Milky Way, contributed talk, 8th VVV science meeting, Edinburgh, United Kingdom, July 2017.

Gerhard, O.: Dynamical models for the barred inner Milky Way from surveys, invited talk, IAU Symp. 334 Rediscovering the Galaxy, Potsdam, Germany, July 2017.

Gerhard, O.: Dynamical models for the inner Galaxy: bulge, bar, disk, and halo, invited talk, Beyond the Solar Neighborhood: Entering into the Gaia Era, Sesto, Italy, January 2017.

Gerhard, O.: Perspectives on Galactic structure, invited talk, IAU Symp. 336, Astrophysical Masers: Unlocking the Mysteries of the Universe, Cagliary, Italy, September 2017.

Gerhard, O.: The Galactic bar, the kinematics of nearby stars in Gaia DR1, and beyond, contributed talk, The science of Gaia and future challenges, Lund, Sweden, August 2017.

Gerhard, O.: The central core in the Milky Way's dark matter halo, invited talk, Bright and Dark Universe, Naples, Italy, January 2017.

Gillessen, S.: An Update on Monitoring Stellar Orbits, invited talk, Black Hole Cam Meeting, Bonn, Germany, March 2017.

Gillessen, S.: An Update on Monitoring Stellar Orbits, invited talk, IAS workshop on stellar dynamics, Princeton, USA, November 2017.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Gymnasium Penzberg, Penzberg, Germany, March 2017.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Tag der offenen Tür am MPE, Garching, Germany, October 2017.

Gillessen, S.: Some news from the Galactic Center, invited talk, Astro-GR Meeting, Barcelona, Spain, October 2017.

Gillessen, S.: The Galactic Center - a unique astrophysical laboratory, colloquium, Observatory Warsaw, Warsaw, Poland, October 2017.

Gillessen, S.: The Galactic Center - a unique astrophysical observatory, colloquium, AEI Hannover, Hannover, Germany, January 2017.

Greiner, J.: GROND - a 7-channel imager: Optical/near-infrared GRB follow-up and use in other science areas, invited talk, Annual astronomical meeting of Iran, Zanjan, Iran, May 2017.

Greiner, J.: GW 170817 - the gravitational wave detection of a binary neutron star merger: expectations, surprises, prospects, colloquium, Institute Colloquium, Erlangen, Germany, December 2017.

Greiner, J.: GW 170817: the gravitational wave detection of a binary neutron star merger: expectations, surprises, prospects, colloquium, AIP Colloquium, Potsdam, Germany, November 2017.

Greiner, J.: Skyhopper - an astrophysical multi-channel optical/near-infrared telescope on a CubeSat, contributed talk, 6th Interplanetary CubeSat Workshop, Cambridge, United Kingdom, May 2017.

Greiner, J.: Skyhopper - an astrophysical multi-channel optical/near-infrared telescope on a CubeSat, invited talk, 3rd COSPAR Symposium, 2017, Jeju, South Korea, September 2017.

Grupp, F.: The EUCLID NISP tolerance approach, contributed talk, SPIE, San Diego, USA, July 2017.

Grupp, F.: EUCLID status and challenges, contributed talk, Deutsche AG, Göttingen, Deutschland, September 2017.

Grupp, F.: FOCES and a collaboration opportunity for small to mid size telescopes, contributed talk, Yearly meeting of EAPSNET, Nara, Japan, October 2017.

Haberl, F.: The population of BeXRBs in the SMC: On the spin period evolution, invited talk, BeXRB 2017, Heraklion, Greece, September 2017.

Haberl, F.: The population of high-mass X-ray binaries in the SMC: pulsars vs. non-pulsars, contributed talk, The X-ray Universe 2017, Rome, Italy, July 2017.

Habibi, M.: S-stars cluster, contributed talk, 70 years of stellar associations, Byurakan observatory, Armenia, September 2017.

Habibi, M.: The center of Milky Way, invited talk, Byurakan International Center for Physics and Mathematics (IPM), Teheran, Iran, July 2017.

Habibi, M.: Twelve years of spectroscopic monitoring in the Galactic Center: the closest look at S-stars near the black hole, invited talk, PSF Coffee, MPIA, Heidelberg, Germany, October 2017.

Haerendel, G.: Is there an aurora solaris?, invited talk, conference on “Advancing Plasma Physics from the Sun to the Earth”, Breckenridge, Colorado, USA, May 2017.

Haerendel, G.: AMPTE: An artificial plasma comet experiment, invited talk, conference on “Active Experiments in Space: Past, Present and Future”, Santa Fe, New Mexico, USA, September 2017.

Haerendel, G.: Auroral acceleration in solar flares, colloquium, Lockheed Martin Solar Astrophysics Laboratory, Palo Alto, USA, September 2017.

Haerendel, G.: Auroral acceleration in solar flares, colloquium, University of California Berkeley, September 2017.

Haerendel, G.: How Reinhard came to MPE or My five years of IR astronomy, invited talk, “Celebrating Reinhard's career so far: Exploring the puzzles of the universe from the event horizon to the large-scale cosmic web”, Ringberg Castle, Germany, October 2017.

Haerendel, G.: Rickard, Lars, Freja and more, invited talk, 60th anniversary of the Swedish Institute for Space Physics, Kiruna, Sweden, October 2017.

Herrera-Camus, R.: Outflows and excitation conditions of the molecular gas in main-sequence galaxies at z~2, invited talk, Sharp Views of Galaxy Formation and Evolution, Sendai, Japan, November 2017.

Herrera-Camus, R.: The Connection between Thermal Pressure and Star Formation Activity in Nearby Galaxies, contributed talk, EWASS, Prague, Czech Republic, June 2017.

Hocuk, S.: Chemical signatures in magnetized cloud cores, contributed talk, Frontiers of astrophysical modeling, Leuven, Belgium, September 2017.

Hocuk, S.: The center for astrochemical studies and dust physics, invited talk, ESO informal talk, Garching, Garmany, April 2017.

Hou, J.: Robust covariance matrix for precision cosmology, contributed talk, Euclid Galaxy Clustering SWG meeting, Barcelona, Spain, February 2017.

Ishiguro, M.: Physical Characterization of (162173) Ryugu, The JAXA HAYABUSA 2 Mission Target, contributed talk, From Lijang to the Oort cloud: International Workshop on Solar System Small Bodies Exploration, Lijang, China, June 2017.

Jimenez Rosales, A.: Impact of Faraday effects on event horizon scale GRMHD images of Sgr A*, contributed talk, Polarised Emission from Astrophysical Jets, Ierapetra, Greece, June 2017.

Jimenez-Rosales, A.: Impact of Faraday effects on event horizon scale GRMHD images of Sgr A*, contributed talk, Polarised Emission from Astrophysical Jets., Ierapetra, Greece, June 2017.

Kanbach, G.: Gamma-Ray Astrophysics: Roots, Growth, and Success, invited talk, Symposium: A Decade of AGILE: Results, Challenges and Prospects of Gamma-Ray Astrophysics, Rome, Italy, December 2017.

Kanbach, G.: OPTIMA: from Last Light to First Light, invited talk, Meeting on High Time Resolution Astrophysics, Marostica (Vicenza), Italy, November 2017.

Kiss, C.: Thermal emission of the Eris-Dysnomia system, contributed talk, European Planetary Science Congress (EPSC), Riga, Latvia, September 2017.

Käfer, F.: Galaxy cluster shapes and eROSITA selection effects, contributed talk, German eROSITA Consortium meeting, Hamburg, Germany, July 2017.

Käfer, F.: Galaxy cluster shapes in X-rays, contributed talk, Alpine Cosmology Workshop 2017, Allgäu Alps, Germany, July 2017.

Käfer, F.: eROSITA - Importance of galaxy cluster shapes for cosmology, contributed talk, 3rd Azores School on Observational Cosmology - 5th Azores International Advanced School in Space Sciences, Angra do Heroísmo, Portugal, August 2017.

Laas, J.: An Updated Gas/Grain Sulfur Network For Astrochemical Models, contributed talk, 72nd International Symposium on Molecular Spectroscopy, Urbana-Champaign, USA, June 2017.

Lippa, M.: Spatially Resolved Molecular Gas and Star Formation at z=1, contributed talk, The Galaxy Ecosystem. Flow of Baryons through Galaxies, Garching, Germany, July 2017.

Lippich, M.: Covariance matrix comparison for galaxy clustering analyses in Euclid, contributed talk, Euclid Cosmological Simulation SWG meeting, Barcelona, Spain, October 2017.

Lutz, D.: Dust in galaxies over cosmic time, invited talk, The Dusty Universe, Alpbach, Austria, July 2017.

Lutz, D.: Far-infrared sizes and scalings for local galaxies and AGN, contributed talk, Sharp Views of Galaxy Formation and Evolution, Sendai, Japan, November 2017.

Lutz, D.: Identifying molecular outflows in our neighborhood, contributed talk, EWASS S6: Physics and demography of AGN and starburst winds, Prague, Czech Republic, June 2017.

Lutz, D.: Improving on previous missions: What are the main challenges?, invited talk, The Dusty Universe, Alpbach, Austria, July 2017.

Meidinger, N.: Athena Wide Field Imager – Status Overview, contributed talk, Athena/WFI Consortium Meeting, Palermo, Italy, January 2017.

Meidinger, N.: Athena Wide Field Imager – Status Overview, contributed talk, Athena/WFI Consortium Meeting, Warsaw, Poland, October 2017.

Meidinger, N.: The Wide Field Imager Instrument for ATHENA, contributed talk, International workshop on Astronomical X-Ray Optics, Prag, Czech Republic, December 2017.

Meidinger, N.: The Wide Field Imager Instrument for ATHENA, contributed talk, UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XX, SPIE, San Diego, USA, August 2017.

Meidinger, N.: The Wide Field Imager of Athena, contributed talk, Athena topical panel chair meeting, Garching, Germany, June 2017.

Mendel, J.T.: KMOS Calibration and Data Reduction, invited talk, 2017 ESO Calibration Workshop, Santiago, Chile, January 2017.

Merloni, A.: 4MOST Facility Simulator, invited talk, 4MOST All-hands meeting, Lyon, France, September 2017.

Merloni, A.: Observational Properties of AGN and Black Hole XRB: from phenomenology to physics, invited talk, EWASS, Prague, Czech Republic, June 2017.

Merloni, A.: Reverberation Mapping Quasars, X-ray and Broad-band SED, contributed talk, X-ray Universe, Rome, Italy, June 2017.

Merloni, A.: Studying ionized outflows in large X-ray selected AGN samples: XMM-XXl and SPIDERS, contributed talk, EWASS, Prague, Czech Republic, June 2017.

Merloni, A.: Understanding AGN evolution with large X-ray surveys: current constraints and prospects for eROSITA, colloquium, CfA, Cambridge, MA, USA, Februray 2017.

Merloni, A.: Understanding AGN evolution with large X-ray surveys: prospects for eROSITA, invited talk, AG Tagung, Göttingen, Germany, September 2017.

Merloni, A.: eROSITA on SRG, invited talk, AG Tagung, Göttingen, Germany, September 2017.

Merloni, A.: eROSITA on SRG, invited talk, The X-ray Universe, Rome, Italy, June 2017.

Müller, B.: Ice Lab - Cryogenic Experiments in the IR and THz regime, contributed talk, Laboratory Astrophysics Workshop 2017, Bonn, Germany, November 2017.

Müller, B.: Ice Lab - Cryogenic Experiments in the IR and THz regime, contributed talk, Laboratory Astrophysics Workshop 2017, Bonn, Germany, November 2017.

Müller, T. G.: Asteroiden: Gefahr aus dem All?, public talk, Türkheimer Wissenschaftstage, Türkheim, Germany, October 2017.

Müller, T. G.: Exotische Welten: Asteroiden, Kometen, Planeten, public talk, MPE Tag der offenen Tür, Garching, Germany, October 2017.

Müller, T. G.: Herschel-PACS high-precision FIR fluxes of NEAs and MBAs, contributed talk, European Planetary Science Congress (EPSC), Riga, Latvia, September 2017.

Müller, T. G.: Near Earth Asteroid Thermal Modelling, colloquium, DLR Berlin-Adlershof, Colloquium, Berlin, Germany, March 2017.

Müller, T. G.: Ryugu: 15 months to showdown, contributed talk, Asteroids, Comets, Meteors 2017, Montevideo, Uruguay, April 2017.

Müller, T. G.: Sonnensystem & Kleinplaneten, public talk, Jubiläum der Sternwarte Mirasteilas, Falera, Switzerland, September 2017.

Müller, T. G.: The fascinating World of Asteroids, colloquium, ESO colloquium, Garching, Germany, July 2017.

Müller-Seidlitz, J.: DEPFETs with Storage on Matrix Scale - A Layout Comparison, contributed talk, 21st International Workshop on DEPFET Detectors and Applications, Ringberg Castle, Kreuth, Germany, May 2017.

Nagy, Z.: Measuring rotation in protostellar envelopes: ALMA observations of edge-on Orion protostars, contributed talk, Multi-scale Star Formation, Morelia, Mexico, April 2017.

Nandra, K.: Athena Mission Update, invited talk, ATHENA WFI Consortium Meeting, Palermo, Italy, January 2017.

Nandra, K.: Athena: the Advanced Telescope for High Energy Astrophysics, Timing and Spectroscopy in the New Era of X-ray Astronomy, invited talk, RAS Special Discussion Meeting, London, UK, February 2017.

Nandra, K.: Athena: project status update, invited talk, ATHENA SKA Meeting, Manchester, UK, April 2017.

Nandra, K.: AGN evolution from X-ray surveys in CANDELS and beyond, invited talk, CANDELS Workshop 2017, Santa Cruz, USA, August 2017.

Nandra, K.: The Advanced Telescope for High Energy Astrophysics: Mission Status, invited talk, WFI Proto-Consortium Meeting, Warsaw, Poland, October 2017.

Nelson, E.J.: Star Formation Building Bulges and Disks, invited talk, Advances in Galaxy Evolution, Ringberg, Germany, June 2017.

Nelson, E.J.: The Emergence of Galactic Structure, colloquium, Bowdoin College, Brunswick, USA, November 2017.

Nelson, E.J.: The Emergence of Galactic Structure, colloquium, Williams College, Williamstown, USA, December 2017.

Nelson, E.J.: The Future of Galaxy Studies with DASH, invited talk, Yale University DASH meeting, New Haven, USA, November 2017.

Nelson, E.J.: Where Stars Form, contributed talk, The Galaxy Ecosystem: Flow of Baryons Through Galaxies, Garching, Germany, July 2017.

Nelson, E.J.: Building Galactic Bulges, contributed talk, Harvard-Smithsonian Institute for Theory and Computation Luncheon, Cambridge, USA, November 2017.

Nelson, E.J.: Building Galactic Bulges, contributed talk, Harvard-Smithsonian Institute for Theory and Computation Luncheon, Cambridge, USA, November 2017.

Pfuhl, O.: Astrometry with GRAVITY, contributed talk, VLTI community days, Garching, Germany, March 2017.

Pfuhl, O.: First science results of the GRAVITY instrument, invited talk, BlackHoleCam F2F Meeting, Bonn, Germany, February 2017.

Pfuhl, O.: First science results of the GRAVITY interferometer, invited talk, Meeting of the Deutsche Astronomische Gesellschaft, Göttingen, Germany, September 2017.

Pfuhl, O.: Observing the universe in motion with GRAVITY - From micro-quasars to the supermassive black hole SgrA*, contributed talk, Flatiron institute CCA, New York, USA, December 2017.

Pineda Fornerod, J.E.: The Green Bank Ammonia Survey (GAS): First results of NH_3 mapping the Gould Belt, invited talk, Astrochemical Conference KIDA2017, Bordeaux, France, September 2017.

Pineda Fornerod, J.E.: The Green Bank Ammonia Survey (GAS): First results of NH_3 mapping the Gould Belt, contributed talk, The Physics of the ISM. 6 Years of ISM-SPP

1573: What we have learned?, Köln, Germany, February 2017.

Pineda Fornerod, J.E.: The Role of Turbulence in Star Formation: from Dense Cores to Disk Formation, colloquium, SFB 956 colloquium, Universität zu Köln, Cologne, Germany, November 2017.

Pineda Fornerod, J E.: The role of turbulence in star formation: from dense cores to disk formation, colloquium, Herzberg Astrophysics Victoria, Victoria, BC, Canada, April 2017.

Price, S.H.: Kinematics and structures of z~1.5-3 star-forming galaxies with MOSDEF, CANDELS, and MassiveFIRE, contributed talk, Advances in Galaxy Evolution, Ringberg, Germany, June 2017.

Price, S.H.: Structures and Masses of Distant Star-Forming Galaxies, invited talk, Cosmology Seminar, University of California, Davis, USA, June 2017.

Rau, A.: Athena/WFI - Science Team Activities and Science Requirements Updates, contributed talk, 5th Athena/WFI Proto-Consortium Meeting, Palermo, Italy, January 2017.

Rau, A.: The Wide Field Imager for Athena, contributed talk, The X-ray Universe 2017, Rome, Italy, June 2017.

Rau, A.: The Wide Field Imager for Athena, invited talk, Spanish X-ray Astronomy 2017: the path towards Athena, Granada, Spain, October 2017.

Rau, A.: WFI Science Team Activities, contributed talk, 6th Athena WFI Proto-Consortium Meeting, Warsaw, Poland, October 2017.

Rau, A.: WFI Update, invited talk, Athena X-IFU Consortium Meeting, Toulouse, Fance, March 2017.

Rau, A.: WFI Update, invited talk, Athena/X-IFU Consortium Meeting, Madrid, Spain, September 2017.

Rau, A.: X-ray transients in the SRG/eROSITA All-Sky Survey, contributed talk, IAU S339 - Southern Horizons in Time Domain Astronomy, Stellenbosch, South Africa, November 2017.

Rau, A.: eROSITA, invited talk, RAS special discussion on "Timing and Spectroscopy in the New Era of X-ray Astronomy", London, United Kingdom, February 2018.

Redaelli, E.: Molecules as probes in low-mass star forming regions, invited talk, Alma Mater Studiorum - Universita di Bologna, Bologna, Italy, September 2017.

Redaelli, E.: Molecules as probes in low-mass star forming regions, invited talk, Osservatorio Astronomico di Arcetri, Florence, Italy, September 2017.

Salvato, M.: AGN studies in the era of all-sky surveys (or so), colloquium, University of Santander, Santander, Spain, December 2017.

Salvato, M.: AllWISE Rosat/2RXS and XMMSLEW2 associations done using NWAY - An accurate algorithm to pair sources simultaneously between N catalogs, contributed talk, XMM SSC 30th consortium meeting, Garching Munich, Germany, March 2017.

Salvato, M.: AllWISE counterparts to ROSAT/2RXS and XMMSLEW2 surveys using NWAY - An accurate Bayesian Algorithm to pair sources in N catalogs simultaneously, contributed talk, X-ray Universe 2017, Rome, Italy, June 2017.

Salvato, M.: Nway: a Bayesian Algorithm for Cross-matching Multiple Catalogs, contributed talk, Astroinformatics 2017, Cape Town, South Africa, Novermber 2017.

Salvato, M: The art of Multiwavelength cross-matching, colloquium, Talk at the University of West Cape (Cape Town), Cape Town, South Africa, November 2017.

Sánchez, A.G.: Cosmological Analysis of the completed BOSS, colloquium, ESO Galaxy Clusters discussion group, Garching, Germany, April 2017.

Sánchez, A.G.: Euclid forecasts beyond Fisher matrices, contributed talk, Euclid IST meeting, Heidelberg, Germany, May 2017.

Sánchez, A.G.: Systematic error tiger team report, contributed talk, Euclid Consortium meeting, London, UK, June 2017.

Sánchez, A.G.: Cosmological analysis of the completed BOSS, contributed talk, Euclid Consortium meeting, London, UK, June 2017.

Sánchez, A.G.: Galaxy clustering with Euclid, invited talk, Annual meeting of the German Astronomical Society, Göttingen, September 2017.

Sanders, J. S.: AGN feedback in the intracluster medium, invited talk, Whereabouts and Physics of the Roaming Baryons in the Universe, Sesto-Sexten, Italy, July 2017.

Sanders, J. S.: Calibrating the EPIC-pn energy scale with the Cu fluorescent line, contributed talk, XMM-Newton EPIC Calibration Meeting, Garching, Germany, April 2017.

Sanders, J. S.: Evolution of thermodynamic profiles and core properties of SPT-selected galaxy clusters, contributed talk, Galaxy cluster discussion meeting, Garching, Germany, November 2017.

Sanders, J. S.: X-ray emission from galaxy clusters, invited talk, The Power of X-ray Spectroscopy, Warsaw, Poland, September 2017.

Santos-Sanz, P.: The stellar occultation by the dwarf planet Haumea, invited talk, 49th Annual Division for Planetary Sciences Meeting, Provo, USA, October 2017.

Scholer, M.: Dissipation und Teilchenbeschleunigung in stoßfreien Stoßwellen im Sonnensystem, colloquium, Physikalisches Kolloquium, Technische Universität Braunschweig, November 2017

Schruba, A: Linking Cloud-scale ISM Properties and Star Formation across Local Galaxy Population, contributed talk, The galaxy ecosystem. Flow of baryons through galaxies, Garching, Germany, July 2017.

Schruba, A: Resolving the Physical State of Cold Gas and the Star Formation Process on Cloud-scales across the Local Galaxy Population, colloquium, Astrophysics Colloquium, Cologne, Germany, December 2017.

Schruba, A: Star Formation in Extragalactic Galaxies, invited talk, EWASS, Prague, Czech Republic, June 2017.

Schruba, A: The Interstellar Medium and Star Formation Process in Nearby Galaxies, colloquium, Astronomy & Astrophysics Seminar, Tel Aviv, Israel, June 2017.

Schruba, A: The Physical State of the Cloud-scale ISM

and its Role for Galactic Star formation, contributed talk, Linking Observations and Theory of Star Formation in Galaxies, Sexten, Italy, June 2017.

Schönfelder, V.: The History of Gamma Ray Astronomy from Space, invited talk, Ginzburg Centennial Conference on Physisc, Moscow, Russia, May 2017.

Shimizu, T.: The Inner Regions of AGN: A SINFONI Study of Gas Outflows and Feeding in Local, X-ray Selected AGN, contributed talk, AGN Winds on the Georgia Coast, Jekyll Island, USA, June 2017.

Siegert, T.: Overview on Gamma-Ray Astrophysics, invited talk, Russbach School on Nuclear Astropysics 2017, Russbach am Pass Gschuett, Austria, January 2017.

Siegert, T.: Positron Annihilation throughout the Galaxy, invited talk, INTEGRAL Symposium 2017 "Energetic Time Domain Astrophysics", Venice, Italy, October 2017.

Simm, T.: Quasar accretion physics in the Reverberation Mapping field, invited talk, Young Astronomers on Galactic Nuclei 2017, Teruel, Spain, Oktober 2017.

Sipilä, O.: Hydrodynamics with gas-grain chemistry and radiative transfer: comparing dynamical and static models, contributed talk, Current and future perspectives of chemical modelling in astrophysics, Hamburg, Germany, July 2017.

Sipilä, O.: Spin states of H2D+ and D2H+ as chemical age tracers, invited talk, Nuclear spin effects in astrochemistry, Grenoble, France, May 2017.

Sturm, E.: Molecular outflows and feedback in the local universe, contributed talk, AGN Winds on the Georgia Coast, Jekyll Island, Georgia, USA, June 2017.

Tacconi, L. J.: Molecular Gas, Star Formation and Galaxy Dynamics from z~2.5–0, colloquium, Heidelberg Joint Astronomy Colloquium, Heidelberg, Germany, January 2017.

Tacconi, L. J.: Scaling Relations of Molecular Gas Content & Depletion Times Scales from ~1400 Star-forming Galaxies Between z=0-4, invited talk, Santa Cruz Galaxy Evolution Workshop, Santa Cruz, California, USA, August 2017.

Tacconi, L. J.: Scaling Relations of Molecular Gas Content & Depletion Times Scales from ~1400 Star-forming Galaxies Between z=0-4, invited talk, Sharp Views of Galaxy Formation and Evolution, Japan-German (JSPS-DAAD) Workshop, Sendai, Japan, November 2017.

Tacconi, L. J.: The Early Evolution of Galactic Disks: ISM and Star Formation, invited talk, Disk Instabilities Across Cosmic Scales, Sexten Center for Astrophysics, Sexten, Italy, July 2017.

Tacconi, L. J.: The Evolution of Molecular Gas and Star Formation from z~3 to 0, colloquium, NRAO, Socorro, New Mexico, USA, September 2017.

Treberspurg, W.: Prototype DEPFET Detectors for the WFI of Athena, contributed talk, 21st International Workshop on DEPFET Detectors and Applications, Ringberg Castle, Kreuth, Germany, May 2017.

Treberspurg, W.: Prototype DEPFET detectors for the WFI of ATHENA, invited talk, Kavli Institute for Particle Astrophysics and Cosmology,Advanced Instrumentation Seminars (AIS), Menlo Park CA, USA, August 2017.

Trümper, J.: Die neue Astronomie mit Gravitationswellen – Experimente, Messungen, Trends, public talk, Mittwochskreis im IBZ, München, Germany, May 2017.

Trümper, J., Die Geburt einer neuartigen Astronomie mit Gravitationswellen, public talk, Sternfreunde Hamburg-Harburg, Germany, July 2017.

Trümper, J., Farewell Yasuo Tanaka, colloquium, MPE, Garching, Germany, September 2017.

Trümper, J., The Massive Black Hole at the Galactic Center in X-Rays, invited talk, Genzel-Fest, Ringberg, Germany, October 2017.

Trümper, J., Neutronensterne und Schwarze Löcher, public talk, Urania,Graz, Austria, November 2017.

Übler, H.: Ionized gas kinematics at z ~1-2 with KMOS3D, contributed talk, Advances in Galaxy Evolution through a New Generation of Spectroscopic Surveys, Ringberg, Germany, June 2017.

Übler, H.: Kinematics of star-forming galaxies at z ~ 1-2 with KMOS3D, colloquium, Astronomy & Astrophysics Seminar, Tel Aviv University, Tel Aviv, Israel, May 2017.

Übler, H.: Kinematics of star-forming galaxies at z ~ 1-2 with KMOS3D, contributed talk, Emission Line Galaxies with MOS: from cosmic noon to the reionization era, KICC, Cambridge, UK, September 2017.

Übler, H.: Kinematics of star-forming galaxies at z ~ 1-2 with KMOS3D, invited talk, ESO Thirty Minute Talks, ESO Santiago, Santiago de Chile, Chile, November 2017.

Übler, H.: Mass budgets, kinematics, and ISM conditions of 1<z<3 star-forming galaxies, colloquium, Theoretical Astrophysics Center Seminar, UC Berkeley, Berkeley, USA, February 2017.

Übler, H.: Rotation Curves of star-forming galaxies & the Tully-Fisher relation at z ~ 1-2, contributed talk, Santa Cruz Galaxy Workshop, UC Santa Cruz, Santa Cruz, USA, August 2017.

van Dishoeck, E.F.: Astrochemistry: our past and future, invited talk, strochemistry VII. Through the Cosmos from Galaxies to Planets, IAU Symposium 332, Puerto Varas, Chile, March 2017.

van Dishoeck, E.F.: Astrochemistry: some recent results and future directions, invited talk, The Physics of the Interstellar Medium, Cologne, Germany, February 2017.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life in space, colloquium, Universite Pierre et Marie Curie colloquium, Paris, France, September 2017.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life in space, invited talk, IUCAA public lecture, Pune, India, May 2017.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life in space, public talk, CSH public lecture, Bern, Switzerland, October 2017.

van Dishoeck, E.F.: Chemical link from clouds to disks, invited talk, Disk formation workshop, Leiden, The Netherlands, July 2017.

van Dishoeck, E.F.: Chemistry from clouds to planets, invited talk, Kavli Exofrontier 2017 meeting, Cambridge, UK, July 2017.

van Dishoeck, E.F.: Infrared astronomy: still having fun, invited talk, Harm Habing's 80th birthday conference, Leiden, The Netherlands, October 2017.

van Dishoeck, E.F.: Molecules from clouds to stars and planets, colloquium, Center for Space and Habitability, Bern, Switzerland, October 19.

van Dishoeck, E.F.: Molecules from clouds to stars and planets, invited talk, Annual NNV-AMO meeting, Lunteren, The Netherlands, October 2017.

van Dishoeck, E.F.: Molecules from clouds to stars and planets, invited talk, International symposium on Molecular Spectroscopy: 72nd meeting, Champaign-Urbana, USA, June 2017.

van Dishoeck, E.F.: Science with JWST-MIRI, colloquium, LPTHE seminar, Paris, France, September 2017.

van Dishoeck, E.F.: Summary and actions, invited talk, Kavli-IAU workshop on Future Space-based UV-O-IR Telescopes, Leiden, The Netherlands, July 2017.

van Dishoeck, E.F.: Sweet ingredients for planet formation, invited talk, David Williams' 80th birthday conference, London, UK, September 2017.

van Dishoeck, E.F.: Sweet ingredients for planet formation, invited talk, Reaching new heights in astronomy, Garching, Germany, August 2017.

van Dishoeck, E.F.: Transitional disks: structure, origin and evolution, invited talk, Science with ALMA, Leiden, The Netherlands, March 2017.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks with ALMA, colloquium, ANU, Canberra, Australia, November 2017.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks with ALMA, colloquium, Center for Space and Habitability, Bern, Switzerland, October 2017.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks with ALMA, colloquium, Flatiron Institute, New York, USA, October 2017.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks with ALMA, colloquium, Heidelberg Joint colloquium, Heidelberg, Germany, December 2017.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks with ALMA, colloquium, Institute for Advanced Studies, Princeton, USA, October 2017.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks with ALMA, colloquium, Swinburne University, Melbourne, Australia, November 2017.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA, invited talk, Marc Aaronson @30 yr symposium, Tucson, USA, April 2017.

Waisberg, I.: Sub-milliarcsecond Optical Interferometry of HMXBs with VLTI/GRAVITY: The Case of BP Cru, invited talk, VLTI community days, Garching, Germany, March 2017.

Wilman, D.: Mapping the star formation within high redshift galaxies, invited talk, MIAPP Workshop on "In & Out. What rules the Baryon Cycle?", Garching, Germany, July 2017.

Zhao, B.: Effect of Grain Size and Freeze-out on Non-ideal MHD Diffusivities, contributed talk, Current and Future Perspectives of Chemical Modelling in Astrophysics, Hamburg, Germany, July 2017.

Zhao, B.: Living in harmony: B-fields and Class 0 disks, invited talk, Disk Formation Workshop 2017: Leiden, Leiden, Netherlands, July 2017.

Dissertationen

Janssen, A.: An infrared/submillimetre perspective on active galactic nuclei. Ludwig-Maximilians-Universität München 2017.

Knust, F.: Applying the fireball model to short gamma-ray burst afterglows: methods, jet opening angles and plateau phases. Technische Universität München 2017.

Lin, M.-Y.: Gas flows and stars in nuclear regions of nearby Seyfert galaxies. Ludwig-Maximilians Universität München 2017.

Punanova, A.: Chemistry and Kinematics in Low-Mass Star-Forming Regions. Ludwig-Maximilians-Universität München 2017.

Siegert, T.: Positron-Annihilation Spectroscopy throughout the Milky Way. Technische Universität München 2017.

Varela Cardozo, K. P.: Testing the standard GRB afterglow model with the snapshot method using multi-epoch multi-wavelength data. Technische Universität München 2017.

Wiseman, P.: Gamma-ray burst host galaxies in absorption. Technische Universität München 2017.

Masterarbeiten

Baade, M.B.: Design and Simulation of the Radiator Support Structure for ATHENA Mission. Technische Universität München 2017

Bauer, L.: Bestimmung der Eigengeschwindigkeit des isolierten Neutronensterns RX J0420.0-5022 mit Chandra. Ludwig- Maximilians-Universität München 2017.

Bodensteiner, J.: Interaction between massive stars and the interstellar medium. Technische Universität München 2017

Fahrenschon, V.: General relativistic effects in main sequence binary systems. Ludwig-Maximilians-Universität München 2017.

Fellenberg, S. v.: A new far-infrared view into the galactic centre - a detection of Sgr A* in the far infrared. Technische Universität München 2017.

Hörmann, V.H.: Entwicklung eines Kühlkonzeptes für den MICADO Kryostaten. Technische Universität München 2017.

Ohlenforst, T.O.: Development of the Power Conditioning Module for the Wide Field Imager Instrument of ATHENA. Technische Universität München 2017.

Bachelorarbeiten

Alber, B.: Größenentwicklung von Galaxies. Ludwig-Maximilians-Universität München 2017.

Antonini, E.: Photometrische und spektroskopische Beobachtungen der Sternenpopulationen in Kugelsternhaufen zur Bestimmung von Alter und Metallizität. Ludwig-Maximilians-Universität München 2017.

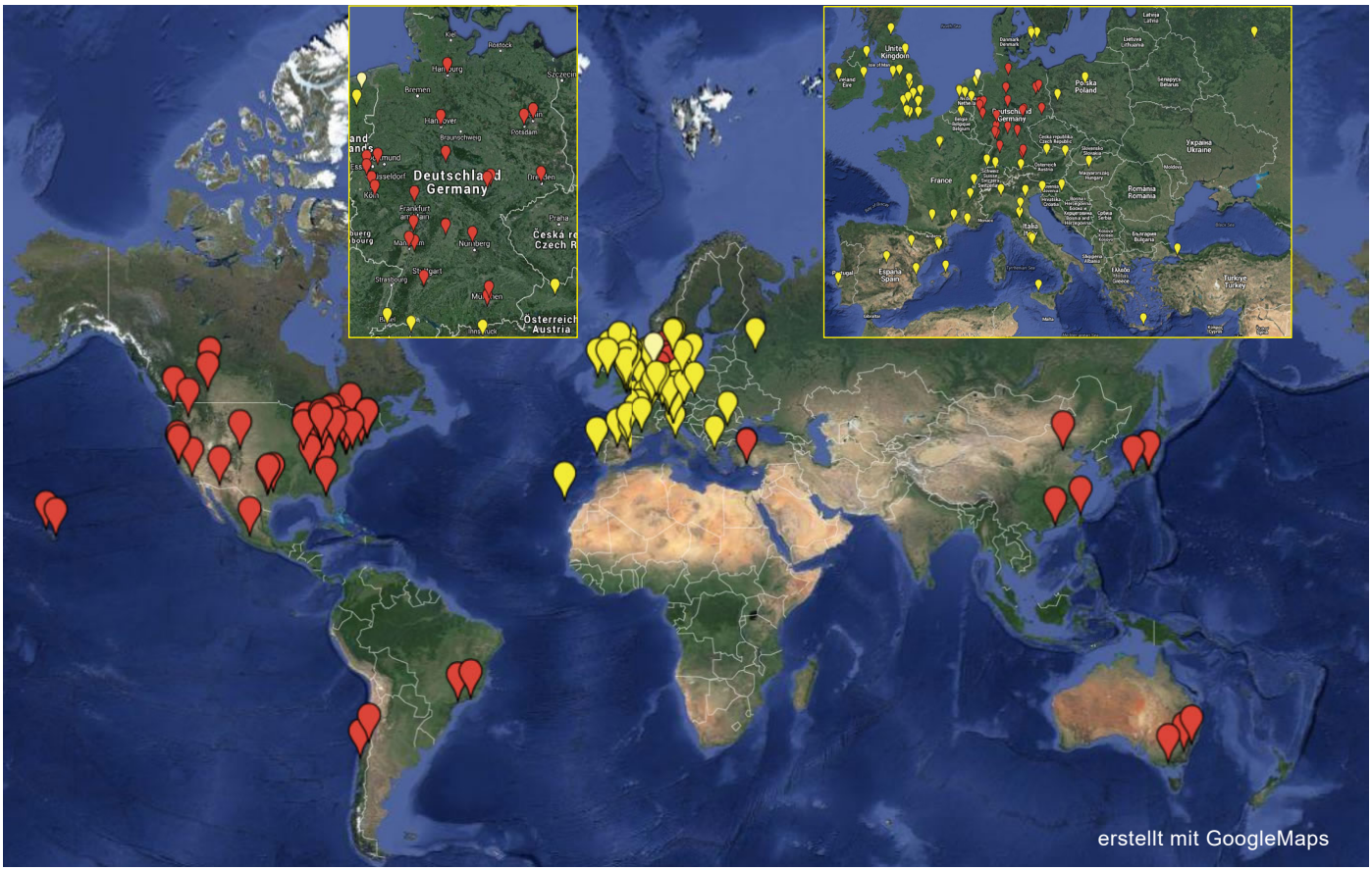
Bermel, B.: Evolution of redshifted spirals in dark matter halos at 0.7<z<2.7. Ludwig-Maximilians-Universität München 2017.

Bruhn, S.: Quenching Prozesse in galaxien und die Schechter Massen Funktion. Ludwig-Maximilians-Universität München 2017.

Yordanova, A.: Die Entstehung der Cores in riesen elliptischen Galaxien. Ludwig-Maximilians-Universität München 2017.

Kollaborationen / Wissenstransfer

Wissenschaftliche Kollaborationen nach Ländern



Australien

Australian National University, Canberra: Galaxienentstehung.

CSIRO Astronomy and Space Science, Epping: CAS-Observations; CAS-Theory.

Monash University, Melbourne: Nukleare Astrophysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

Belgien

CSL Liège, Katholieke Universiteit Leuven: INTEGRAL-Spectrometer SPI.

Brasilien

Universidad de Sao Paulo: Galaxienentstehung.

Observatorio Nacional, Rio de Janeiro: DES.

Centro Brasileiro de Pesquisas, Rio de Janeiro: DES.

Universidade Federal do Rio, Rio de Janeiro: DES.

Universidade Federal do Rio Grande do Sul: Nearby Active Galaxies.

Canada

Dunlap Observatory, Richmond Hill: First Hydrostatic Cores (FHSCs).

NRC - Herzberg, Ottawa: CAS Observations.

Queen's University, Kingston: CAS-Observations.

University of Alberta, Edmonton (Alberta): CAS-Observations.

University of Toronto: CAS-Observations.

University of Victoria, Victoria: CAS-Observations.

University of Western Ontario, London (Ontario): CAS-Observations; CAS-Theory.

Chile

ESO, Joint ALMA Observatory, Santiago: CAS-Observations.

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme; Galaktisches Zentrum.

China

Donghua University, Shanghai: CAS-Theory.

Institute for High-Energy Physics (IHEP), Peking: Gammaquellen mit COMPTEL und INTEGRAL.

Nanjing University, Nanjing: CAS-Observations.

National Observatory of China, Beijing: CAS-Observations.

University of Hongkong: Strahlungsmechanismen von Pulsaren im Röntgen- und Gammabereich.

Dänemark

Dänemarks Technische Universität: ATHENA.

Deutschland

Astrophysikalisches Institut Potsdam: eROSITA; XMM-Newton; OPTIMA; ARGOS; HETDEX; 4MOST.

European Southern Observatory (ESO), Garching: GRAVITY; Galaxienentstehung; Nukleare Astrophysik; MICADO; ERIS; Black Hole Cam; Infrared Dark Clouds; CAS-Observations.

Fraunhofer Institut für Integrierte Schaltungen, Erlangen: Mikroelektronikentwicklungen; ATHENA.

Heinrich-Heine-Universität, Düsseldorf: Soft Matter Physics.

Institut für Astronomie und Astrophysik Tübingen (IAAT): XMM-Newton; eROSITA; ATHENA.

Institut für Astrophysik Göttingen: MICADO.

Institut für Festkörperphysik und Werkstoff-Forschung, Dresden: Entwicklung weichmagnetischer Werkstoffe.

Institut für Materialphysik im Weltraum, Köln: Glasübergänge.

Landessternwarte Heidelberg-Königstuhl: Nahinfrarotspektrograph LUCI für LBT; Galaxienentstehung; ARGOS.

Laser Zentrum Hannover: Dichroics for ARGOS; Anti-Reflection Coating ERIS.

Ludwig-Maximilians-Universität (Universitäts-Sternwarte), München: MICADO; HETDEX; eROSITA.

Maier-Leibnitz Laboratorium, Garching: eROSITA.

Max-Planck-Institut für Astronomie, Heidelberg: GRAVITY; LUCI; PanSTARRS; SDSS; ARGOS; MICADO; EUCLID; CAS-Observations.

Max-Planck-Institut für Astrophysik, Garching: SDSS; OPTIMA; eROSITA.

Max-Planck-Institut für Gravitationsphysik, Potsdam: Black Hole Cam.

Max-Planck-Institut für Physik, Werner Heisenberg Institut, München: MPI Halbleiterlabor; CAST; eROSITA; Athena.

Max-Planck-Institut für Radioastronomie, Bonn: ARGOS; Black Hole Cam; CAS-Observations.

Max-Planck-Institut für Struktur und Dynamik der Materie, Hamburg: CAS-Laboratory.

Physikalisch-Technische Bundesanstalt Berlin: eROSITA.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Nukleare Astrophysik; CAS-Projekte.

Thüringer Landessternwarte Tautenburg: GROND; Gamma-Ray Bursts.

Universität Bochum: LUCI.

Universität Bonn: Test von Pixeldetektoren für ATHENA; eROSITA; EUCLID.

Universität der Bundeswehr, München: CAS-Projekte.

Universität Düsseldorf: ERC Advanced Grant; CAS-Theory.

Universität Erlangen (ECAP): eROSITA; ATHENA.

Universität Hamburg: eROSITA; OPTIMA (Flarestars).

Universität Heidelberg: ATHENA; XFEL; CAS-Observations; CAS-Theory.

Universität Jena: Isolierte Neutronensterne; Nukleare Astrophysik.

Universität Köln: Galaktisches Zentrum; GRAVITY; CAS-Observations; CAS-Theory; CAS-Laboratory.

Universität Mannheim: ATHENA; XFEL.

Universität Stuttgart: CAS-Projects.

Universität Würzburg: AGADE.

Finnland

University of Helsinki, Helsinki: CAS-Theory; CAS-Observations.

Frankreich

Aix-Marseille University, Marseille: CAS-Observatioms; CAS-Theory.

CEA, Saclay: INTEGRAL-Spektrometer SPI; CAST; EUCLID; SVOM; ATHENA.

Centre d'Etude Spatiale des Rayonnements (UPS), Toulouse: INTEGRAL-Spektrometer SPI; CAS-Observations.

IAP Paris: Nukleare Astrophysik.

IPAG Grenoble: GRAVITY; MICADO; Astrochemistry; CAS-Observations; CAS-Theory.

IRAM, Grenoble: CAS-Observations.

Laboratoire d'Astrophysique de Marseille (LAM): EUCLID; Gamma-Ray Bursts.

Laboratoire Univers et Particules de Montpellier, Montpellier: Cosmic-ray propagation in molecular clouds.

Observatoire de Paris (GEPI): MICADO; Gravity.

Observatoire de Paris (LESIA): MICADO; GRAVITY; CAS-Theory.

Observatoire de Paris-Meudon: GRAVITY, Galaktisches Zentrum.

University of Bordeaux, Bordeaux: CAS-Theory.

Université de Cergy-Pontoise, Cergy Pontoise Cedex: CAS-Observations.

Universite Paris Diderot, Paris: CAS-Observations.

Université de Rennes, Rennes: CAS-Observations.

Université de Toulouse, Toulouse: CAS-Observations.

Griechenland

University of Crete and Foundation for Research and Technology Hellas (FORTH), Heraklion: Skinakas Sternwarte; Röntgendoppelsternsystemen; OPTIMA Photometer; Röntgen-AGN, Novae.

National Observatory of Athens, Athens: Athena.

Großbritannien

Queen‘s University, Belfast: PanSTARRS.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen; Infrared Dark Clouds; CAS-Observations.

Open University, Milton Keynes: Kataklysmische Variablen; Novae; ATHENA.

Queen Mary University of London, London: CAS-Observations.

Rutherford Appleton Laboratory, Council for the Central Laboratory of the Research Councils, Swindon: SIS-Junctions.

United Kingdom Astronomy Technology Centre (UKATC): EUCLID; ERIS.

University of Cambridge: DES.

University College London, London: High Energy Pulsars; EUCLID; DES; CAS-Observations.

University of Durham: PanSTARRS.

University of Edinburgh: DES; PanSTARRS.

University of Leeds, Leeds: CAS-Theory; CAS-Observations.

University of Leicester: XMM-Newton Datenanalyse; ATHENA; Swift.

University of Nottingham: DES.

University of Portsmouth: DES.

University of Sussex, Brighton: DES.

University of Southampton: Magellanic Clouds.

Irak

University of AL-Muthanna, AL-Muthanna: CAS-Observations.

Irland

National University of Ireland, Galway: High Time Resolution Astronomy; CAS-Observations.

University College Dublin: Fermi/GBM.

Israel

School of Physics and Astronomy, Wise Observatory, Tel Aviv: Aktive Galaxien; Interstellares Medium; Galaxienentwicklung.

Weizmann Institut, Rehovot: Galaktisches Zentrum.

Italien

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen.

IFCAI-CNR Palermo: XMM-Newton Beobachtungen von Neutronensternen und Pulsaren.

INAF (Insituto Nationale di Astrofisica): ATHENA, EUCLID.

INAF Arcetri, Florence: ARGOS; LBT; ERIS; CR in Molecular Clouds; CAS-Observations; CAS-Laboratory; CAS-Theory.

INAF Padua: LBT; MICADO; ERIS.

INAF Roma: LBT; Nukleare Astrophysik.

INAF Teramo: ERIS.

INAF Trieste: Gamma-Ray Bursts; Fermi/LAT.

INFR Frascati: SIDDHARTA.

Scuola Normale Superiore, Pisa: CAS-Observations.

University Bologna: EUCLID; CAS-Laboratory; CAS-Observations.

Università di Torino, Torino: CAS-Observations.

Università di Firenze, Firenze: CAS-Observations.

Università di Perugia, Perugia: CAS-Observations.

Japan

National Astronomical Observatory of Japan, Mitaka/Tokio: CAS-Theory; CAS-Observations; Galaxienentwicklung.

Institute of Space and Astronautical Science, Kanagawa; CAS-Observations; CAS-Laboratory.

Institute of Physical and Chemical Research (RIKEN), Hirosawa: CAS-Observations.

Tokio Institute of Technology (TITECH), Ookayama: ASCA/XMM-Newton Beobachtungen von AGN.

University of Osaka: Astro-H.

University of Tokyo, Tokyo: CAS-Observations.

Tohoku University, Sendai: Galaxienentwicklung.

Korea

Seoul National University, Seoul, Korea: CAS-Observations.

Kroatien

Ministry of Science and Technology, Zagreb: CAST.

Lettland

Ventspils University College, Ventspils: CAS-Theory.

Mexiko

Universidad Nacional Autónoma de México, Jiquilpan: CAS-Theory.

Niederlande

ESTEC, Noordwijk: XMM-Newton-TS-Spiegelkalibration; CCD Entwicklung; Radiation Performance Instrument; INTEGRAL; EUCLID; ATHENA.

JIVE Dwingeloo: Black Hole Cam.

NOVA (Leiden, Groningen, Amsterdam): MICADO; ERIS.

Leiden University, Leiden: CAS-Observations; CAS-Theory.

Radboud University, Nijmegen: Black Hole Cam.

SRON, Utrecht: Chandra-LETG.

University of Groningen, Kapteyn Institute: Rekonstruktion der Dichteverteilung im Universum; EUCLID; Dynamical-Chemical Models; CAS-Theory; CAS-Observations.

Österreich

Institut für Weltraumforschung, Graz: ATHENA WFI.

Universität und TU Wien: MICADO; ATHENA.

Universität Innsbruck: MICADO.

Universität Linz: MICADO.

RICAM Linz: MICADO.

Polen

University of Poznań, Poznań; CAS-Observations; CAS-Theory.

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

Space Research Center (CBK), Warschau: ATHENA WFI.

University Zielona Gora: OPTIMA.

Portugal

SIM Lissabon und Porto: GRAVITY.

Observatorio Astronomico de Lisboa, Lisbon: Athena.

Russland

Institute of Astronomy, Moscow: CAS-Theory.

Lebedev Institute of Physics, Moscow: CAS-Theory.

Staatliche Technische Universität Bauman, Moscow: Stark gekoppelte Systeme; Time-domain spectroscopy; CAS-Theory; CAS-Laboratory.

Space Research Institute (IKI) of the Russian Academy of Science, Moscow: eROSITA/Spektrum Röntgen-Gamma.

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

Ural Federal University, Yekaterinburg: CAS-Observations.

Schweden

University Lund/Observatory: OPTIMA.

Schweiz

CERN, Geneva: CAST.

ETH Zürich: ERIS.

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

Universität Basel: Nukleare Astrophysik.

University of Geneva: Athena.

University of Zurich: Infrared Dark Clouds.

Spanien

Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas, Madrid: DES.

Centro de Astrobiología (CSIC/INTA), Madrid: CAS-Laboratory.

Ernst & Young Spain, Barcelona: CAS-Projects.

ESAC, Madrid: XMM-Newton Science Operations Center; INTEGRAL Science Operations Center; CAS-Observations.

Instituto de Astrofísica de Andalucía, Granada: CAS-Observations.

Instituto de Ciencias del Espacio, Bellaterra: DES; CAS-Observations.

Institut de Fisica d'Altes Energies, Barcelona: DES, EUCLID.

Universität Valencia, Department de Astronomia, Valencia: INTEGRAL-Spektrometer SPI.

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen.

Observatorio Astronómico Nacional, Madrid: CAS-Observations.

Taiwan

Institute of Astronomy and Astrophysics (ASIAA), Taipei: CAS-Theory; CAS-Observations.

National Central University, Chungli; PanSTARRS.

Tschechien

Charles University, Prague: CAS-Theory.

Türkei

Bogazici University, Istanbul: CAST.

Ungarn

Konkoly Observatory, Budapest: CAS-Observations; CAS-Theory.

USA

Argonne National Laboratory: DES.

Astronomical Sciences National Science Foundation, Arlington: CAS-Observations.

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.

Harvard-Smithsonian Center for Astrophysics, Cambridge: Molecular cloud cores chemistry and dynamics.

Institute for Astronomy, Hawaii, Honolulu: Galaxienentstehung; PanSTARRS; NIR Kamera für Wendelstein.

Jet Propulsion Laboratory, Pasadena: EUCLID; CAS-Observations.

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.

NASA/Ames Research Center, Mofett Field (CA): MHD Shocks; CAS-Observations.

NASA/Goddard Space Flight Center, Greenbelt (MD): INTEGRAL-Spektrometer SPI; Swift.

National Radio Astronomy Observatory, Socorro: CAS-Observations.

NOAO, Tucson: DES.

Ohio State University, Columbus: DES; LBT.

Pacific Northwest National Laboratory (PNNL), Richland: CAST.

Pennsylvania State University: HETDEX; Swift; Athena.

Research Corporation, Tucson: LBT.

San Jose State University: MHD shocks.

SLAC, Stanford: CAMP; DES; Athena.

Smithsonian Astrophysical Observatory, Cambridge: Chandra-LETGS; PanSTARRS; Röntgendoppelsterne in M31; Athena.

Space Telescope Science Institute, Baltimore: Galaxienentstehung; PanSTARRS; Turbulence; CAS-Observations.

Stanford University: DES; Fermi/LAT; Fermi/GBM.

Texas A & M University, College Station: DES.

Texas State University, San Marcos: HETDEX.

University of Arizona, Tucson: Kosmische Strahlung; Planetenentstehung; LBT; ARGOS; CAS-Observations.

University of California, Berkeley: MPG/UCB-Kollaboration; FAST; INTEGRAL-Spektrometer SPI; Superbubbles.

University of California, Santa Cruz: DES.

University of Chicago, Chicago: CAS-Observations; DES.

University of Colorado, Boulder (Co): Superbubbles; CAS-Observations.

University of Florida, Gainesville: Infrared Dark Clouds; CAS-Theory; CAS-Observations.

University of Illinois at Urbana-Champaign: DES.

University of Massachusetts, Amherst: CAS-Observations.

University of Michigan: DES.

University of Pennsylvania: DES.

University of Pittsburgh: Galaxienentstehung.

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung

University of Virginia, Charlottesville: CAS-Theory.

Yale University, New Haven: CAS-Observations.

Multinationale Kollaborationen - Projekte

ARGOS - Laserleitstern für das LBT: Arcetri Observatory, Italy; AIP, LSW Heidelberg, MPiA, MPIfR, Germany; University of Arizona, USA.

ASPI - The International Wave Consortium: CNR-IFSI Frascati, Italy; LPCE/CNRS Orleans, France; Dept. of Automatic Control and Systems University of Sheffield, UK.

ATHENA - Advanced Telescope for High Energy Astrophysics: Dänemarks Technische Universität, Dänemark; Nikolaus Kopernikus Astronomical Center, Polen; Universität Wien, Österreich; IWF, Graz; INAF Italy, Italy; CEA Frankreich, Frankreich; University of Leicester, Open University, UK; Institut für Astronomie und Astrophysik Tübingen, Erlangen Centre for Astroparticle Physics (ECAP), Germany; ESA; NOA, Greece; Universität Geneva, Schweiz; Institute for Astrophysics, Portugal.

BOSS - Baryon Oscillation Spectroscopic Survey: SDSS-IV 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.

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 - Cosmological Evolution Survey: INAF-Osservatorio Astronomico di Bologna, INAF-Osservatorio Astronomico di Roma, INAF-Osservatorio Astrofisico di Arcetri, INAF/IASF-CNR, Sezione di Milano, IRA-INAF, Bologna, Dipartimento di Astronomia, Universita Padova, Dipartimento di Fisica, Universita degli Studi Roma Tre, Italy; Harvard-Smithsonian Centre for Astrophysics, Cambridge, Dept. of Physics, Carnegie Mellon University, Pittsburg, Institute for Astronomy, University of Hawaii, California Institute of Technology, Pasadena, Dept. of Astronomy, Yale University, USA; INTEGRAL Science Data Centre, Versoix, Switzerland; Laboratoire d'Astrophysique de Marseille, France.

DES - Dark Energy Survey: LMU München, Excellence Cluster Universe, Germany; The Fermi National Accelerator Laboratory (Fermilab), University of Chicago, NOAO, University of Michigan, University of Pennsylvania, University of Illinois at Urbana-Champaign, Ohio State University, Texas A&M University, University of California Santa Cruz, Stanford University, SLAC National Accelerator Laboratory, The Lawrence Berkeley National Laboratory, Argonne National Laboratory, USA; University College London, University of Cambridge, University of Edinburgh, University of Portsmouth, University of Sussex, University of Nottingham, UK; Observatorio Nacional, Centro Brasileiro des Pesquisas Fisicas, Universidade Federal do Rio, Brasilien; Instituto de Ciencias dei Espacio, Institut de Fisica d'Altes Energies, Centro de Investigaciones Energeticas Medioambientales y Tecnologicas, Spain.

eBOSS - SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: Carnegie Mellon University (CMU), University of Colorado Boulder, Harvard-Smithsonian Center for Astrophysics Participation Group, Johns Hopkins University, Kalvi Institute for the Physics and Mathematics of the Universe, New Meico State University, New York University, The Ohio State University, Penn State University, University of Utah, University of Wisconsin, Yale University, USA; Max-Planck-Institut fuer Astrophysik (MPA Garching), Max-Planck-Institut für extraterrestrische Physik (MPE), Max-Planck-Institut für Astronomie (MPIA Heidelberg), Germany; National Astronomical Observatories of China, Shanghai Astronomical Observatory, China; United Kingdom Participation Group, University of Portsmouth, UK.

ERIS - Enhanced Resolution Imager and Spectograph for the VLT: ESO, Germany; ETH Zürich, Switzerland; INAF Arcetri (with OAA, OATe and OAPd), Italy; UKATC Edinburgh, Scotland; NOVA Leiden, The Netherlands.

eROSITA - extended Roentgen Survey with an Imaging Telescope Array: AIP Potsdam, Universität Tübingen, Universität Bonn, Universität Erlangen, Universität Hamburg, Remeis-Sternwarte Bamberg, MPA Garching, LMU (USM) 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; STScI, USA; MPIA Heidelberg, Universität Bonn, Germany.

Fermi/GBM - Fermi Gamma-Ray Burst Monitor: Marshall Space Flight Center Huntsville, University of Huntsville, USA.

Fermi/LAT - Fermi Gamma-Ray Large Area Space Telescope: Stanford University Palo Alto, Naval Research Laboratory Washington DC, Sonoma State University Rohnert Park, Lockheed Martin Corporation Palo Alto, University of California Santa Cruz, University of Chicago, University of Maryland Greenbelt, NASA Ames Research Center Moffett Field, NASA Goddard Space Flight Center for High Energy Astrophysics Greenbelt, Boston University, University of Utah Salt Lake City, University of Washington Seattle, SLAC Particle Astrophysics Group Palo Alto, USA; ICTP and INFN Trieste, Istituto Nacionale di Fisica Nucleare Trieste, Italy; University of Tokyo, Japan; CEA Saclay, France.

GRAVITY - Instrument for VLT Interferometry: MPIA Heidelberg, Universität Köln, ESO, Garching, Germany; SIM Lissabon und Porto, Portugal; IPAG, Grenoble, Observatoire de Paris / Meudon (LESIA), France.

HETDEX - Hobby-Eberly Telescope Dark Energy Experiment: University of Texas, Austin, Pennsylvania State University, Texas A&M University, USA; AIP Potsdam, LMU, USM, Germany.

INTAS - Cooperation of Western and Eastern European Scientists: France, Germany, Norway, Russia.

ISDC - INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University Southhampton, UK; Institut für Astronomie und Astrophysik Tübingen Germany; Danish Space Research Institute Lyngby, Denmark; University College Dublin, Ireland; Istituto di Fisica Milano, Istituto die Astrofisica Spatiale Frascati, Italy; N. Copernikus Astronomical Center Warsaw, Poland; Space Research Institute of the Russian Academy of Sciences Moscow, Russia; Laboratory for High Energy Astrophysics GSFC Greenbelt, USA.

INTEGRAL-Spectrometer SPI: Centre d'Etude Spatiale des Rayonnements (CESR) Toulouse, CEA Saclay Gif-sur-Yvette, France; University de Valencia Burjassot, Spain.

LBT - Large Binocular Telescope Project: MPIA Heidelberg, MPIfR Bonn, Landessternwarte Heidelberg Königstuhl, AIP, Germany; University of Arizona, Tucson, Ohio State University, Columbus, Research Corporation, USA; INAF, Italy.

LUCI (Instrument for LBT): LSW Heidelberg, MPIA, Universität Bochum, Germany.

MICADO - Multi-Adaptive Optics Imaging Camera for Deep Observations: LMU (USM), MPIA Heidelberg, IFA Göttingen, Germany; INAF-OAPD Padova, Italy; A* (partnership of University Vienna, University Innsbruck, University Linz and RICAM Linz), Austria; NOVA (federation of Dutch university astronomy departments of the universitys in Amsterdam, Groningen, Leiden, Nijmegen), The Netherlands; CNRS/INSU (representing LESIA, GEPI and IPAG), Paris, France.

MXT - Microchannel X-Ray Telescope for Gamma-Ray Bursts: CEA, Saclay, France; University of Leicester, UK.

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, Johns Hopkins Univ. Baltimore, MD, USA; Universities of Durham, Edinburgh, Belfast, UK.

PFS - The Subaru Prime Focus Spectrosgraph Collaboration: Kalvi Insitute for the Physics and Mathematics of the Universe, California Institute of Technology, NASA Jet Propulsion Laboratory, Princeton University, Johns Hopkins University, USA; The University of Tokyo Institutes for Advanced Study (UTIAS), University of Tokyo, National Astronomical Observatory of Japan, Academia Sinica, Japan; Institute of Astronomy and Astrophysics (ASIAA), Taiwan; Laboratoire d'Astrophysiqhe de Marseille, France; Brazilian Consortium: IAG Universidad de Sao Paolo, Laboratorio Nacional de Astrofisica, Brazil; Max-Planck Society, Max-Planck-Institut für Astrophysik (MPA, Garching), Max-Planck-Insitutu für extraterrestrische Physik (MPE), Germany; Chinese Consortium: Shanghai Jiao Tong University, National Astonomical Observatories of China, Tsinghua University, The University of Science and Technology of China, Xiamen University, Peking University, China.

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.

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.

XMM-Newton/SSC (Survey Science Center): AIP, Germany; SAP Saclay, CDS Strasbourg, CESR Toulouse, France; University of Leicester, Institute of Astronomy Cambridge, MSSL London, UK.

XMM-Newton/EPIC (European Photo Imaging Camera): SAP Saclay, IAS Orsay, CESR Toulouse, France; University of Leicester, University Birmingham, UK; CNR Mailand-Palermo-Bologna-Frascati, Osservatorio Astronomico Mailand, Italy; Institut für Astronomie und Astrophysik Tübingen, Germany.

Industrielle Kollaborationen

3d shape GmbH, Erlangen: Metrology for slumped glass mirror study.

4D Engineering, Gilching, Germany: Software development for GRAVITY.

ABN GmbH, Neuried: Ongoing servicing of the MPE test facility PANTER.

Absolut-System, Seyssinet-Pariset, France: 40K cooling system MICADO.

af inventions, Braunschweig: FPGA Programmierung für eROSITA.

Airbus Defense and Space, Munich: EUCLID design study, eROSITA.

Array Electronics, Egmating: DAQ development OPTIMA.

Bach Research, Boulder, USA: High resolution grating for ERIS.

BASF Coatings AG, Münster: Investigations on the scattering properties of micro particles.

Buchberger GmbH, Tuchenbach: Manufacturing of parts for PANTER manipulators, ERIS telescope flange.

CryoVac GmbH, Troisdorf: MICADO Cryosat Study.

Dico-Solutions, München: Elektronikentwicklung für eROSITA.

ECM Engineered Ceramic Materials GmbH, Moosinning: Hersteller von CESIC.

EATON Powering Business Worldwide, Camarillo, CA, USA: Actuators separation-nuts for eROSITA.

ESL GmbH, Berlin: Manufacturing of circuit boards.

Fraunhofer IOF, Jena: Coating for ERIS and mirror development for MICADO.

Freyer GmbH, Tuningen: PANTER, parts for LUCI, eROSITA.

GEWO Feinmechanik GmbH, Wörth/Hörlkofen: Mechanische Fertigung.

Gräfe Spezialoptik GmbH, Camburg: Zerodur-Materialbearbeitung und -Lieferant..

Guido Lex Werkzeugbau GmbH, Miesbach: parts for LUCI.

Hans Englert GmbH, Berlin: Manufacturing of front panels and metering devices.

Hochschule München, Laserlabor, Prof. Heinz Huber, München: Materialbearbeitung mit Ultrakurzpulsarlaser.

HPS München: Multi-Layer Insulation (MLI) for eROSITA.

IABG, Ottobrunn: Environmental testing eROSITA.

Ingenieurbüro Buttler, Essen: Development of front-end electronics for ATHENA and eROSITA.

Ingenieurbüro Josef Eder, Hilgertshausen: System Engeneering for eROSITA, GRAVITY, ATHENA, ERIS.

Ingenieurbüro Weisz, München: Design and mechanical engineering for LUCI, ERIS and MICADO.

Kampf Telescope Optics (KTO), München: Design & System Engineering for MICADO.

Korth Kristalle GmbH, Kiel: Lenses for ERIS Spectrometer.

Kugler GmbH, Salem: ERIS.

Laserjob GmbH, Fürstenfeldbruck: Development of X-ray baffles for eROSITA.

LT Ultra, Herdwangen-Schönach: Spiegelhersteller.

Luxel Corporation, USA: Filter for eROSITA.

Media Lario Technologies, Borisio Parini, Italy: eROSITA mirror system.

MOOG Inc., East Aurora, USA: high pressure valves for eROSITA.

OHB System AG, München; EUCLID design study.

Peter Feckl Maschinenbau GmbH, Forstern: Mechanische Fertigung.

RUAG Austria: Telescope-Cover-Mechanism for eROSITA.

Sacher Lasertechnik, Marburg: Metrology Laser for GRAVITY.

Safran Reosc, Saint-Pierre-du-Perray, France: Mirror development MICADO.

Technotron, Lindau: Development and manufacturing of electronics boards for eROSITA.

Aktivitäten im Wissenstransfer

Durch unsere vielen Kooperationen mit anderen Forschungseinrichtungen und der Industrie ergibt sich ein natürlicher Wissenstransfer. Dies gilt auch bei der Vergabe von Aufträgen an die Industrie. Im Gegensatz dazu sind im Folgenden Lizenzen, Kooperationen mit Universitäten und erteilte Patente aufgeführt.

A) Lizenzen

Baader Planetarium GmbH, Mammendorf: Reflexionsgitter Spectrograph für Lehrzwecke.

Baader Planetarium GmbH, Mammendorf: Baches Echelle Spectrograph.

B) Kooperationen mit Universitäten (vertraglich)

Detektorentwicklung:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung.

University Stanford, Analog-Elektronik Entwicklung.

C) Patente - Aktivitäten in 2017

Das MPE hielt Ende 2017 insgesamt 10 Patente.