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Wissenschaftliche Auszeichnungen, Berufungen

Burtscher, L.: DFG Priority Programme Grant SPP 1573, DFG, Bonn, Germany, September 2014.

Genzel, R.: Herschel Medal, Royal Astronomical Society, London, UK, Juni 2014.

Genzel, R.: Order pour le Mérite for Sciences and Arts (OPLM), Bonn, Germany, Juni 2014.

Genzel, R.: Großes Verdienstkreuz mit Stern des Verdienstordens der BRD, Berlin, Germany, Oktober 2014.

Genzel, R.: Honorary Doctorate, Paris Observatory (OBSPM), Paris, France, November 2014.

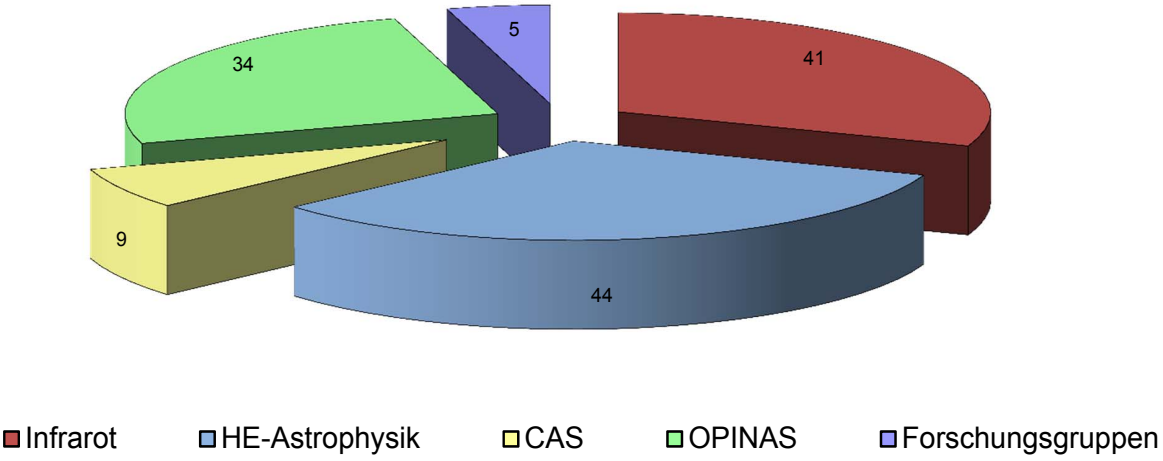
Kanbach, G.: Adjunct Professor, University College Dublin, School of Physics, Dublin, Ireland, Juni 2014.

van Dishoeck, E.: Induction Leopoldina Academy of Sciences, Halle, Germany, März 2014.

van Dishoeck, E.: Lise Meitner Award in Physics, Gothenburg, Sweden, September 2014.

Wissenschaftliche Arbeitsgruppen

Mitarbeiter nach wissenschaftlichen Arbeitsgruppen



Infrarot / Submillimeter-Astronomie

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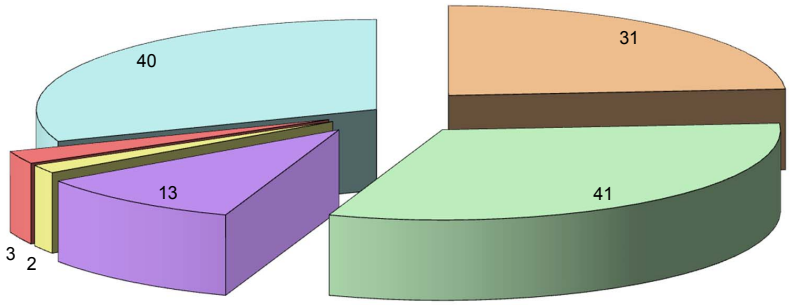

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Auszubildende

Biber, A. (1.9. bis 24.10.); Fischer, C. (ab 1.9.); Hiefinger, M. (bis 6.6.); Kellermann, H.; Kratschmann, T. (bis 28.1.); Leimböck, F.; Lenzewski, S.; Liepold, T.; Reinold, A.; Schuppe, D.

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Publikationsunterstützung

Hauner, R.; Mayr-Ihbe, R.; Mory, B. (bis 28.2.)

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IMPRS

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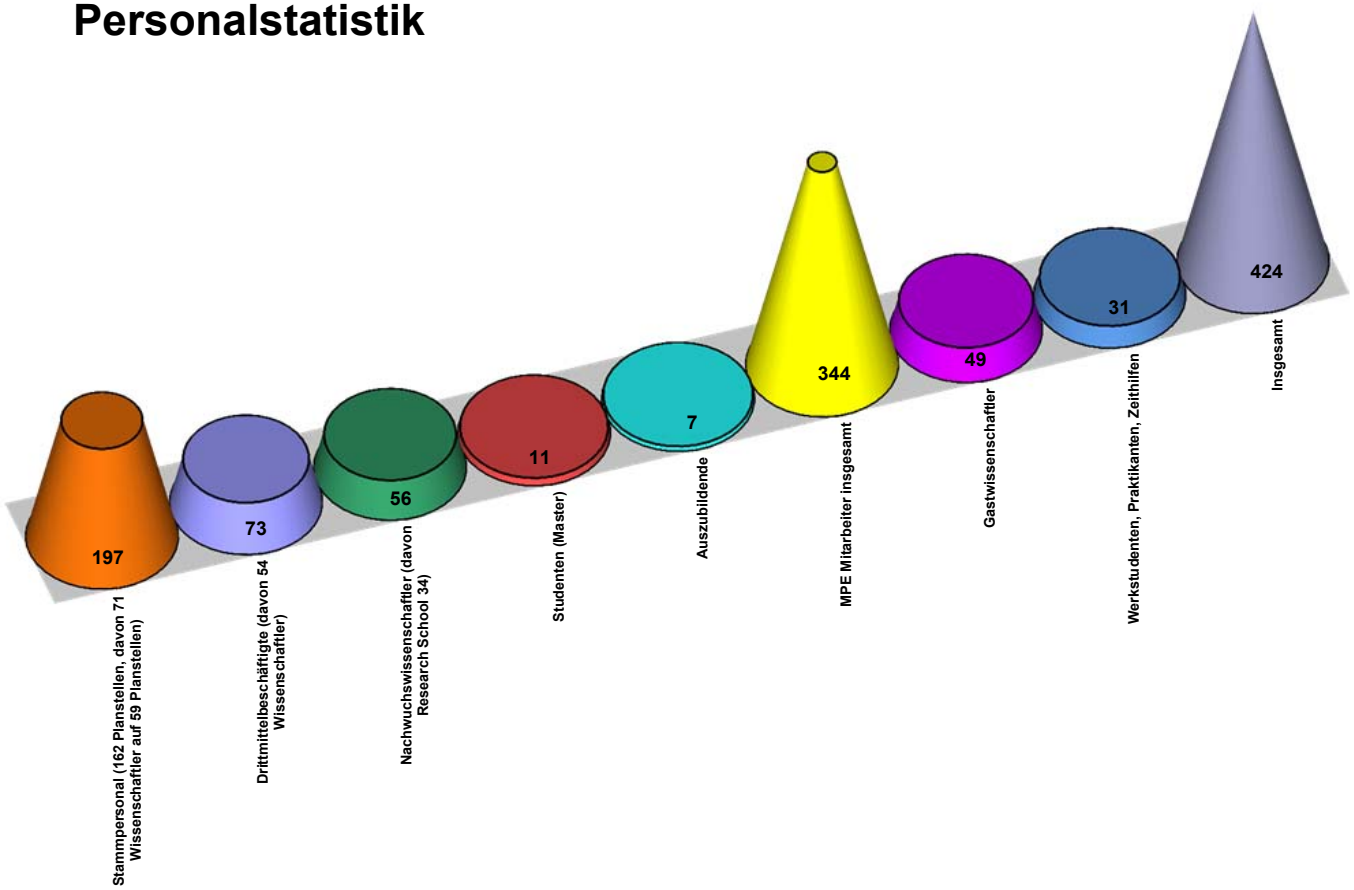
Personalstatistik



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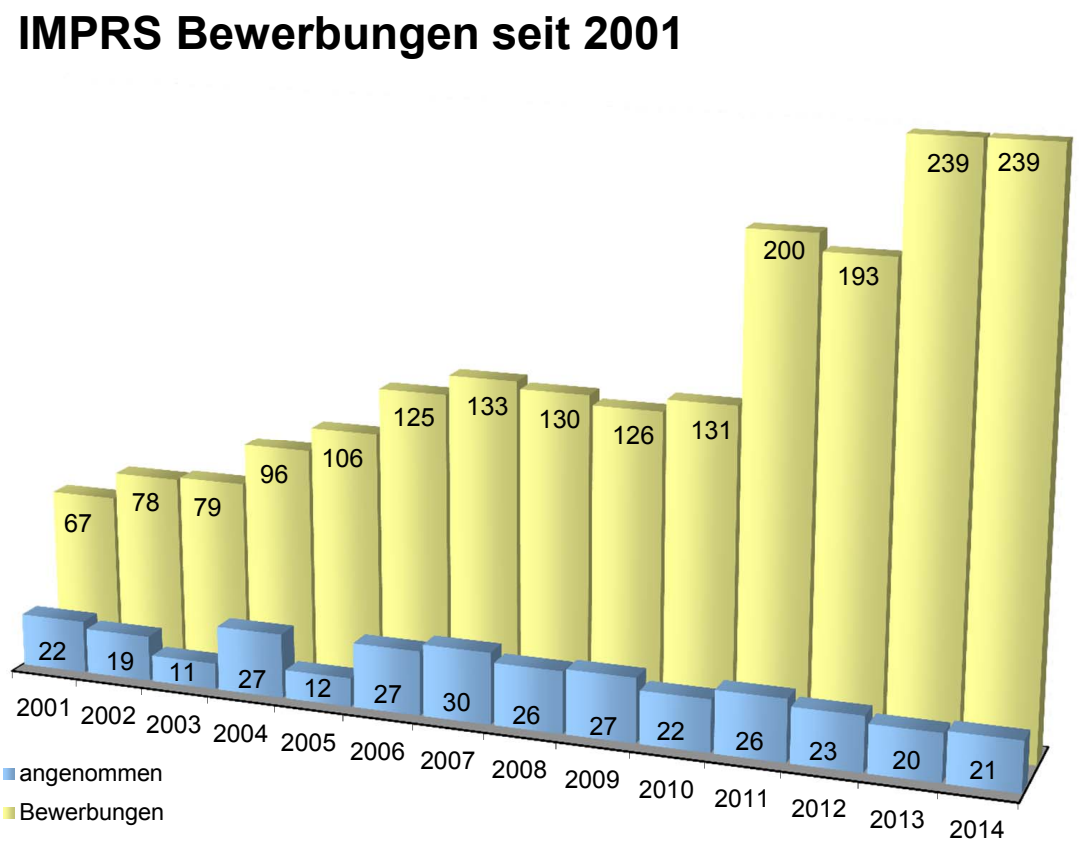
Die IMPRS für Astrophysik ist eine Graduiertenschule an der Ludwig-Maximilians-Universität (LMU) München. Sie ist ein gemeinsames Projekt der beiden Max-Planck-Institute MPE und MPA (Max-Planck-Institut für Astrophysik) sowie der Sternwarte der LMU München und der Europäischen Südsternwarte ESO. Im akademischen Jahr 2014 nahmen insgesamt 79 Studenten an dem Programm teil, davon 34 am MPE. Im Jahr 2014 haben sich 239 Studenten für das Studienjahr 2015 beworben, 21 davon wurden angenommen (Stand Juni 2015).



Jährliche Bewerbungen für das IMPRS Programm in Garching. Seit dem Start haben sich insgesamt 1942 Studenten dafür beworben, 313 davon wurden angenommen.

Öffentlichkeitsarbeit

Das MPE engagierte sich 2014 durch folgende Aktivitäten in der Öffentlichkeitsarbeit: 21 populär-wissenschaftliche Vorträge durch Wissenschaftler, 11 Pressemitteilungen über wissenschaftliche Ergebnisse, 9 allgemeine Nachrichten (wissenschaftlich, Preise, Auszeichnungen), 28 Institutsführungen (meist naturwissenschaftlich orientierte Schulklassen). Am MPE wurden 15 Schüler- (1 - 2 Wochen) und 5 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.

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(Projektleiter unterstrichen)

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Stellvertreter des Gruppendirektors:
Lutz, Tacconi.

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

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

KMOS
Agudo Berbel, Davies, Förster Schreiber, Wiezorrek.

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

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

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

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

Galaktisches Zentrum
Dexter, Eisenhauer, Genzel, Gillessen, Habibi, Ott, Pfuhl, Plewa.

Galaxienkerne
Burtscher, Contursi, Davies, Genzel, Janssen, Lin, Lutz, Orban de Xivry, Rosario, Schnorr-Müller, Schrubba, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung
Bandara, Berta, Förster Schreiber, Genzel, Kurk, Lang, Lutz, Rosario, Sturm, Tacconi, Tadaki, Wisnioski, E. Wuyts, S. Wuyts.

Sternentstehung
Bruderer, Fedele, Karska, Miotello, Murillo, Schruba, van Dishoeck.

Hochenergie-Astrophysik

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

ATHENA/WFI:
Andritschke, Bähr, Bergbauer, Bianchi, Bornemann, Eder, Eraerds, Fürmetz, Hälker, Hauser, Kink, Meidinger, Nandra, S. Ott, Pietschner, Plattner, A. Rau, Schubert, S. Müller, Müller-Seidlitz, Porro, Reiffers, Strecker.

CAST
Bräuninger.

Chandra
Burwitz, Predehl.

eROSITA
Andritschke, Boller, Bornemann, Bräuninger, Brunner, Budau, Burghardt, Burwitz, Clerc, Coutinho, Dennerl, Dittrich, Eder, Eibl, Emberger, Eraerds, F. Huber, Freyberg, Friedrich, Fürmetz, Gaida, Georgakakis, Goldbrunner, Grossberger, Haberl, Hälker, Hartmann, Hartner, Hengmith, v. Kienlin, Kink, Krämer, Meidinger, Merloni, Mican, S.Müller, Nandra, Oberauer, Pfeffermann, Pietschner, Predehl, Rohé, Rupprecht, Schneider, Schreib, Schrey, Soller, Tiedeman, Yaroshenko.

ROSAT
Boller, Freyberg, Haberl.

Swift
Greiner, Schady.

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

Fermi
Collmar, Diehl, Greiner, v. Kienlin, A. Rau,

GROND
van Eerten, Elliot, Graham, Greiner, A. Rau, Schady, Schrey,

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

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

OPTIMA
A. Rau, Schrey, Steinle.

4MOST
Boller, Dwelly.

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

Clusters of Galaxies
Clerc, Sanders.

Optische und Interpretative Astronomie

DES
Bender, Saglia.

EUCLID
Bender, Galametz, Goldenbogen, Grupp, Hartung, Koppenhöfer, Penka, Piemonte, Raison, Saglia, Weiss, Wimmer.

KMOS
Bender, Galametz, Mendel, Saglia.

MICADO
Bender, Saglia, Fabricius.

PanSTARRS
Bender, Hopp, Phleps, Saglia, Farrow.

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

Large Scale Structure
Bender, Fabricius, Farrow, Montesano, Phleps, Saglia, Sanchez.

Stellare Populationen und Galaxienentstehung
Bender, Hopp, Saglia.

Zentrum für astrochemische Studien

Beobachtungen
Alves de Oliveira, J. Bailey, Pineda Fornerod, Pon.

Theorie
N. Bailey, Choudhury, Hocuk, Ivlev, Sipliä, Thi, Vasyunin, Zhao.

Labor
Bizzocchi, Laas, Lattanzi

Lehrveranstaltungen / Seminare

IMPRS für Astrophysik (2014), Garching

Krause

IMPRS Advanced Course: Magnetohydronamics (SS 14)

LMU München

Becker

Endstadien der Sternentwicklung (SS 14)

Doktorandenseminar über Aktuelle Themen aus der Astrophysik (WS 13/14, SS 14, WS 14/15))

Bender

Astronomisches Kolloquium (WS 13/14, SS 14, WS 14/15)

Astrophysikalisches Grundpraktikum (WS 13/14, SS 14, WS 14/15)

Forschungsprojekt Masterarbeit, Anleitung zum wissenschaftlichenArbeiten (WS 13/14, SS 14, WS 14/15)

Grundlagen der fortgeschrittenen Astrophysik (Essential of Advanced Astrophysics), mit Saglia (WS 13/14/, SS 14, WS 14/15)

Ergänzung zur Vorlesung “Grundlagen der fortgeschrittenen Astrophysik” (WS 13/14, SS 14, WS 14/15)

Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert, “Tools in modern astrophysics” (WS13/14, SS 14, WS 14/15)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert (WS 13/14, SS 14, WS 14/15)

Astrophysikalisches Hauptseminar experimentell und beobachtungsorientiert, “Tools in modern astrophysics” (WS 13/14, SS 14, WS 14/15)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar experimentell und beobachtungsorientiert (WS 13/14, SS 14, WS 14/15)

Projektseminar mit begleitendem Kolloquium “Extragalactic group seminar” (SS 14)

Projektseminar mit begleitenden Kolloquium “Gravitational lensing” (WS 13/14, SS 14)

Projektseminar mit begleitenden Kolloquium “Galaxies” (WS 13/14, SS 14, WS 14/15)

Projektseminar mit begleitenden Kolloquium aus dem Bereich experimenteller Arbeiten und Instrumentenentwicklung in der Astronomie (WS 13/14, SS 14, WS 14/15)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich der Kosmologie, Anleitung zum Wissenschaftlichen Arbeiten (WS 13/14, SS14, WS 14/15)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich experimenteller Arbeiten, Anleitung zum wissenschaftlichen Arbeiten (WS13/14, SS 14, WS 14/15)

Galaxies, Vorlesung (WS 14/15)

Ergänzung zur Vorlesung “Galaxies” (WS 14/15)

Gillessen

Astrophysiikalisches Seminar (WS 13/14, SS 14, WS 14/15)

Saglia

Grundlagen der fortgeschrittenen Astrophysik (Essential of Advanced Astrophysics), mit Bender (WS 13/14/, SS 14, WS 14/15)

Krause

Dynamik des Interstellaren Mediums (WS 13/14)

Probestudium (WS 14/15)

Technische Universität München

Diehl

Astrophysics Seminar "Nuclei in the Cosmos" (WS 13/14, SS 14, WS 14/15)

Observational High-Energy Astrophysics (SS 14)

Eisenhauer

Einführung in die Astrophysik (WS 13/14, WS 14/15)

High Angular Resolution Astronomy: Telescopes, Adaptive Optics, Interferometry, and more (SS 14)

Goethe-Universität Frankfurt

Boller, Th.

Vertiefung zur Vorlesung Einführung in die Astrophysik (SS 2014)

AGN-Physik (WS 14/15)

Lehrerakademie Dillingen und Kerschensteiner Kolleg

Müller, T.

Astronomie, und Kosmologie: Kleinplaneten und Sonnensystem (WS 14/15)

Physik/Astronomie: Kleinkörper im Sonnensystem (WS 14/15)

Organisation von wissenschaftlichen Seminaren / Konferenzen

The Early Life of Stellar Clusters: Formation and Dynamics, Copenhagen, Denmark, 3.-7.11.2014, Organisation: S. Dib, S. Hocuk, P. Padoan, S. P. Zwart, S. Pfalzner, B. Ercolano, I. Pelupessy, T. Haugbølle..

Exoplanet Observations with the E-ELT 2014, Garching, Germany, 3.-6.2.2014, Organisation: B, Brandl, G. Chauvin, R. Davies, A.-M. Lagrange, M. Meyer, J. Melnick, C. Melo, D. Queloz, I. Snellen, J. Spyromilio, M. Thatte.

Speed and Sensitivity: Expanding Astronomical Horizons with the E-ELT, Galway, Ireland, 13.-16.5.2014, Organisation: I. Hook, A. Shearer, V. Dhillon, A. Slowikowska, R. Mignani, R. Davies, R. Haynes, S. Ramsay.

The Unquiet Universe, Cefalu, Sicily, Italy, 3.-7.6.2014, Organisation: D. Burgarella, F. Combes, R. Davies, J. Dunlop, M. Elvis, F. Fiore, E. Giallongo, M. Haehnelt, P. Madau, E. Piconcelli, A. Grazian.

The Fate of Gas in Galaxies: AGN vs Star Formation, Durham, UK, 28.7.-1.8.2014, Organisation: D. Alexander, R. Hickox, T. Theuns, A. Alonso-Herrero, F. Bournaud, R. Davies, R. Morganti, J. Mullaney, R. Somerville.

3D2014: Gas and Stars in Galaxies: A Multiwavelength 3D Perspective, Garching, Germany, 10.-14.3.2014, Organisation: M. Bershady, M. Cappellari, F. Combes, C. De Breuck, E. Emsellem, N.M. Förster Schreiber, D. Iono, H. Kuntschner, A. Peck, S. Ramsay, B. Koribalski, M. Swinbank, J. Vernet, F. Walter, L. Wisotzki, M. Zwaan.

IAU Symposium 311 - Galaxy Masses as Constraints of Formation Models, Oxford, United Kingdom, 21.-25.7.2014, Organisation: M. Cappellari, S. Courteau, R. Bacon, J. Bland-Hawthorn, A. Brooks, K. Bundy, C. Conroy, G. De Lucia, N.M. Förster Schreiber, C. Maraston, A. Saintonge, A. Shapley, T. Treu, I. Trujillo, F. van den Bosch, S. Yi.

Star Formation Across Space and Time, ESA-ESTEC, The Netherlands, 11.-14.11.2014, Organisation: P. André, S. Eales, D. Elbaz, B. Elmegreen, N. Evans, Y. Fukui, E. Ostriker, G. Pilbratt, N. Scoville, L. Tacconi.

Revolution in Astronomy with ALMA -- The Third Year, Tokyo, Japan, 8.-11.12.2014, Organisation: P. Andreani, A. Bolatto, J. Carpenter, S. Casassus, S. Corder, P. Cox, F. Combes, T. Hasegawa, J. Hibbard, S. Iguchi, D. Iono, R. Ivison, K. Johnson, J. Kim, S.-Y. Liu, J. Martin-Pintado, R. Moreno, K. Motohara, R. Neri, L. Nyman, N. Ohashi, T. Oka, R. Plambeck, D. Scott, L. Tacconi, K. Tatematsu (Chair), L. Testi, H. van Langevelde, A. Wootten .

Superbubbles, HI holes and Supershells, Freising, Germany, 10.-12.11.2014, Organisation: M.G.H. Krause, R. Diehl, D. Breitschwerdt, E. Brinks, R.-J. Dettmar, D. Bomans, M. Sasaki.

Splinter meeting J, “The interstellar medium”, Astronomische Gesellschaft, Bamberg, Germany, 25.9.2014, Organisation: M.G.H. Krause, R. Diehl, A. Burkert, M. Gritschneder, M. Schartmann.

Water in Star-forming Regions with Herschel, Rome INAF Observatory, Frascati, Italy, 22.-24.10.2014, Organisation: E.F. van Dishoeck, B. Nisini.

Episodic accretion: Oort workshop 2014, Leiden, the Netherlands, 13.-15.5.2014, Organisation: N.J. Evans, E.F. van Dishoeck.

Dense Cores: Origins, Evolution and Collapse, Monterey, USA, 27.-30.7.2014, Organisation: S. Stahler, P.C. Myers, P. Caselli, G. Fuller, M. Tafalla.

Filamentary Structure in Molecular Clouds, NRAO Charlottesville Headquarters, Virginia, USA, 10.-11.10.2014, Organisation: F. Lo, C. Brogan, P. Caselli, N. Evans, D. Di Francesco, P. Goldsmith, M. Heyer, Z-Y Li, L. Mundy, P. Myers, E. Ostriker, J. Ott, E. Vazquez.

IAU Symposium 311: Galaxy Masses as Constraints of Formation Models, Oxford, UK, 21.-25.07.2014, Organisation: S. Aalto, L. Blitz, L. Bronfman, P. Caselli, F Combes, Y. Fukui, G. Helou, P. Ho, R. Kennicutt, C. Lonsdale, F. Walter, L. Young, M. Yun.

Publikationen

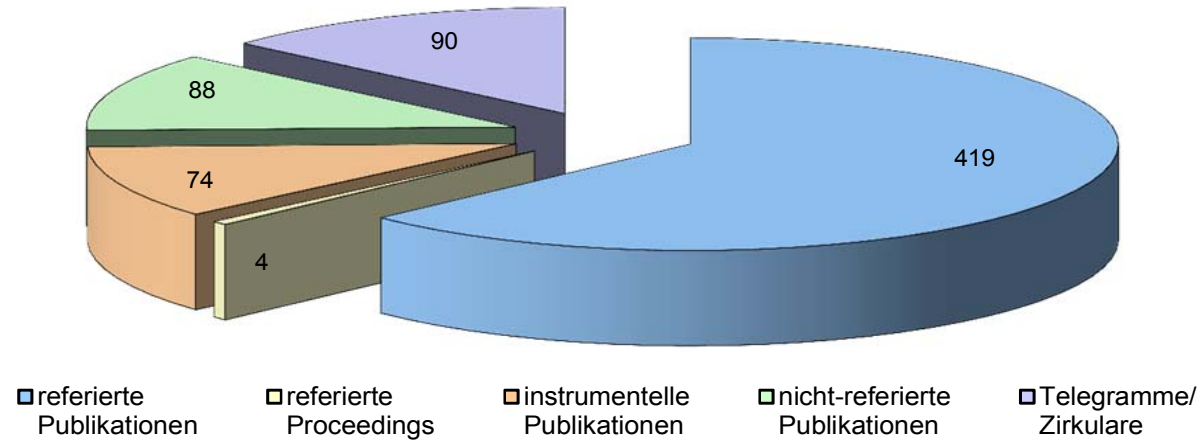
Hier präsentieren wir eine tabularische und graphische Zusammenfassung unserer Veröffentlichungen aus 2014. Die Veröffentlichungen werden nach wissenschaftlicher Arbeitsgruppe und Publikationstyp gezählt. Die Gesamtliste unserer Publikationen aus den verschiedenen Kategorien ist nachfolgend aufgeführt.

Summe der MPE Publikationen in 2014

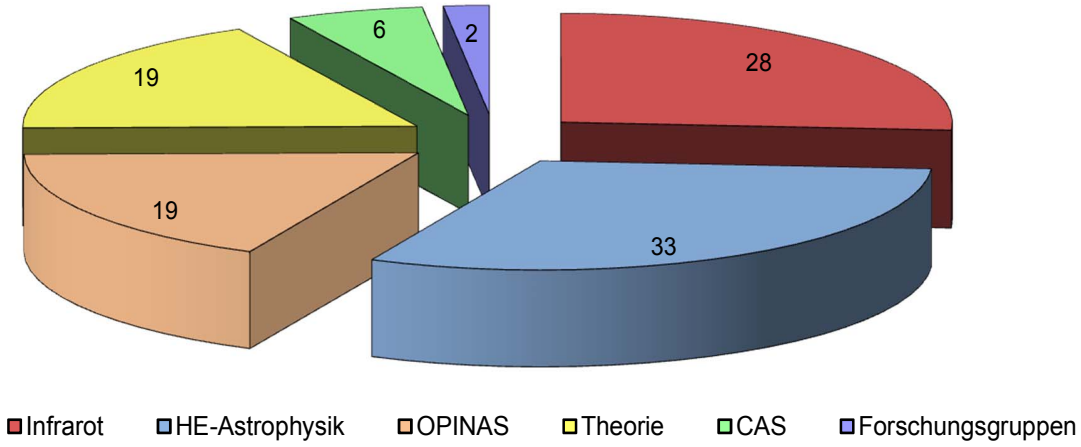
Wissenschaftl. Arbeitsgruppe	referierte Publikationen	referierte Proceedings	Instrument. Publikationen	nicht-referierte Publikationen	Telegramme/ Zirkulare	Vorträge	Poster
IR	28 (114)	1 (1)	14 (33)	4 (18)	0 (6)	103 (150)	8
HE Astrophysik	33 (142)	3 (3)	16 (27)	21 (49)	32 (73)	56 (101)	5
OPINAS	19 (72)	0 (0)	4 (13)	6 (9)	2 (10)	23 (29)	2
CAS	6 (45)	0 (0)	0 (1)	0 (5)	0 (0)	17 (26)	5
Theorie	19 (23)	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)	0
Res. Grp	2 (23)	0 (0)	0 (0)	3 (6)	0 (1)	0 (0)	0
Summe	107 (419)	4 (4)	34 (74)	35 (88)	34 (90)	199 (306)	20

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.

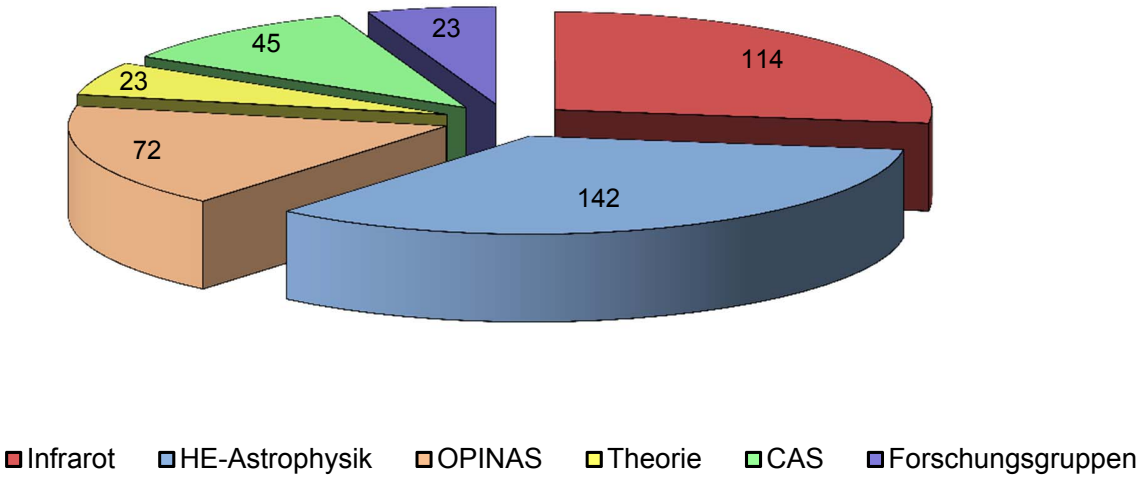
MPE Publikationen 2014 (nach Typ)

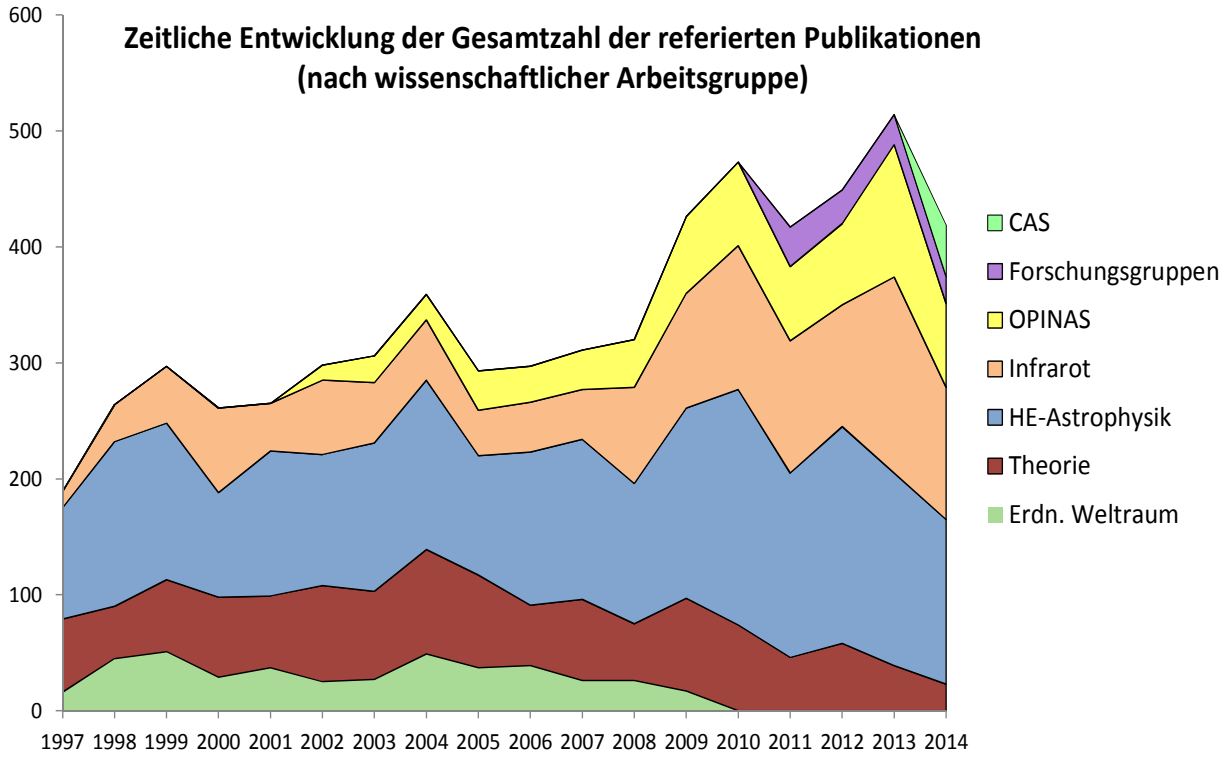


Referierte Publikationen mit MPE Erstautor in 2014
(nach wissenschaftlicher Arbeitsgruppe)



Gesamtzahl der referierten MPE Publikationen in 2014
(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
CAS
Forschungsgruppen
OPINAS
Infrarot
HE-Astrophysik
Theorie
Erdn. Weltraum

Referierte Publikationen

Aasi, J., B.P. Abbott, R. Abbott, ..., A. v. Kienlin: Search for Gravitational Waves Associated with γ-ray Bursts Detected by the Interplanetary Network. Phys. Rev. Lett. 113, 011102 (2014).

Achitouv, I., C. Wagner, J. Weller and Y. Rasera: Computation of the halo mass function using physical collapse parameters: application to non-standard cosmologies. J. of Cosmology and Astroparticle Phys. 10, 77 (2014).

Ackermann, M., A. Albert, W.B. Atwood, ..., A.W. Strong, et al.: The Spectrum and Morphology of the Fermi Bubbles. Ap. J. 793, 64 (2014).

Ackermann, M., M. Ajello, A. Albert, ..., A.W. Strong, et al.: Inferred Cosmic-Ray Spectrum from Fermi Large Area Telescope γ-Ray Observations of Earth's Limb. Phys. Rev. Lett. 112, 151103 (2014).

Ackermann, M., M. Ajello, A. Albert, ..., A.W. Strong, et al.: Search for Cosmic-Ray-induced Gamma-Ray Emission in Galaxy Clusters. Ap. J. 787, 18 (2014).

Ackermann, M., M. Ajello, K. Asano, ..., A. Rau, ..., A. von Kienlin, et al.: Fermi-LAT Observations of the Gamma-Ray Burst GRB 130427A. Science 343, 42-47 (2014).

Adams, J.J., J.D. Simon, M.H. Fabricius, R.C.E. van den Bosch, J.C. Barentine, R. Bender, K. Gebhardt, G.J. Hill, J.D. Murphy, R.A. Swaters, J. Thomas and G. van de Ven: Dwarf Galaxy Dark Matter Density Profiles Inferred from Stellar and Gas Kinematics. Ap. J. 789, 63 (2014).

Agarwal, B., C. Dalla Veccia, J.L. Johnson, S. Khochfar and J.-P. Paardekooper: The First Billion Years project: birthplaces of direct collapse black holes. Mon. Not. R. Astron. Soc. 443, 648-657 (2014).

Ahn, C.P., R. Alexandroff, C. Allende Prieto, S. Bailey, et al.: The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment. Ap. J. Supp. Ser. 211, 17 (2014).

Ajello, M., R.W. Romani, D. Gasparrini, M.S. Shaw, J. Bolmer, G. Cotter, J. Finke, J. Greiner, S.E. Healey, O. King, W. Max-Moerbeck, P.F. Michelson, W.J. Potter, A. Rau, A.C.S. Readhead, J.L. Richards and P. Schady: The Cosmic Evolution of Fermi BL Lacertae Objects. Ap. J. 780, 73 (2014).

Alatalo, K., K. Nyland, G. Graves, S. Deustua, K. Shapiro Griffin, P.-A. Duc, M. Cappellari, R.M. McDermid, T.A. Davis, A.F. Crocker, L.M. Young, P. Chang, N. Scott, S.L. Cales, E. Bayet, L. Blitz, M. Bois, F. Bournaud, M. Bureau, R.L. Davies, P.T. de Zeeuw, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, P. Serra and A.-M. Weijmans: NGC 1266 as a Local Candidate for Rapid Cessation of Star Formation. Ap. J. 780, 186 (2014).

Alexander, T. and O. Pfuhl: Constraining the Dark Cusp in the Galactic Center by Long-period Binaries. Ap. J. 780, 148 (2014).

Allevato, V., A. Finoguenov, F. Civano, N. Cappelluti, F. Shankar, T. Miyaji, G. Hasinger, R. Gilli, G. Zamorani, G. Lanzuisi, M. Salvato, M. Elvis, A. Comastri and J. Silverman: Clustering of Moderate Luminosity X-Ray-selected Type 1 and Type 2 AGNS at Z ~ 3. Ap. J. 796, 4 (2014).

Amorín, R., V. Sommariva, M. Castellano, A. Grazian, L.A.M. Tasca, A. Fontana, L. Pentericci, P. Cassata, B. Garilli, V. Le Brun, O. Le Fèvre, D. Maccagni, R. Thomas, E. Vanzella, G. Zamorani, E. Zucca, S. Bardelli, P. Capak, L.P. Cassará, A. Cimatti, J.G. Cuby, O. Cucciati, S. de la Torre, A. Durkalec, M. Giavalisco, N.P. Hathi, O. Ilbert, B.C. Lemaux, C. Moreau, S. Paltani, B. Ribeiro, M. Salvato, D. Schaerer, M. Scodeggio, M. Talia, Y. Taniguchi, L. Tresse, D. Vergani, P.W. Wang, S. Charlot, T. Contini, S. Fotopoulou, C. López-Sanjuan, Y. Mellier and N. Scoville: Discovering extremely compact and metal-poor, star-forming dwarf galaxies out to z ~ 0.9 in the VIMOS Ultra-Deep Survey. Astron. Astrophys. 568, L8 (2014).

Andersen, M., W.-F. Thi, J. Steinacker and N. Tothill: A common column density threshold for scattering at 3.6 μm and water-ice in molecular clouds. Astron. Astrophys. 568, L3 (2014).

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Anderson, L., É. Aubourg, S. Bailey, ..., F. Montesano, ..., A.G. Sánchez, et al.: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Releases 10 and 11 Galaxy samples. Mon. Not. R. Astron. Soc. 441, 24-62 (2014).

André, P., C. Baccigalupi, A. Banday, ..., G. Chon, et al.: PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. J. of Cosmology and Astroparticle Phys. 2, 6 (2014).

Aresu, G., I. Kamp, R. Meijerink, M. Spaans, S. Vicente, L. Podio, P. Woitke, F. Menard, W.-F. Thi, M. Güdel and A. Liebhart: [O I] disk emission in the Taurus star-forming region. Astron. Astrophys. 566, A14 (2014).

Arik, M., S. Aune, K. Barth, ..., H. Bräuninger, et al.: Search for Solar Axions by the CERN Axion Solar Telescope with He3 Buffer Gas: Closing the Hot Dark Matter Gap. Phys. Rev. Lett. 112, 091302 (2014).

Arévalo, P., F.E. Bauer, S. Puccetti, D.J. Walton, M. Koss, S.E. Boggs, W.N. Brandt, M. Brightman, F.E. Christensen, A. Comastri, W.W. Craig, F. Fuerst, P. Gandhi, B.W. Grefenstette, C.J. Hailey, F.A. Harrison, B. Luo, G. Madejski, K.K. Madsen, A. Marinucci, G. Matt, C. Saez, D. Stern, M. Stuhlinger, E. Treister, C.M. Urry and W.W. Zhang: The 2-79 keV X-Ray Spectrum of the Circinus Galaxy with NuSTAR, XMM-Newton, and Chandra: A Fully Compton-thick Active Galactic Nucleus. Ap. J. 791, 81 (2014).

Awad, Z., S. Viti, E. Bayet and P. Caselli: Deuterium chemistry of dense gas in the vicinity of low-mass and massive star-forming regions. Mon. Not. R. Astron. Soc. 443, 275-287 (2014).

Bailey, J.D.: Measuring the surface magnetic fields of magnetic stars with unresolved Zeeman splitting. Astron. Astrophys. 568, A38 (2014).

Balog, Z., T. Müller, M. Nielbock, B. Altieri, U. Klaas, J. Blommaert, H. Linz, D. Lutz, A. Moór, N. Billot, M. Sauvage and K. Okumura: The Herschel-PACS photometer calibration. Point-source flux calibration for scan maps. Experimental Astronomy 37, 129-160 (2014).

Balogh, M.L., S.L. McGee, A. Mok, D.J. Wilman, A. Finoguenov, R.G. Bower, J.S. Mulchaey, L.C. Parker and M. Tanaka: The GEEC2 spectroscopic survey of Galaxy groups at 0.8 < z < 1. Mon. Not. R. Astron. Soc. 443, 2679-2694 (2014).

Baloković, M., A. Comastri, F.A. Harrison, ..., M. Brightman, et al.: The NuSTAR View of Nearby Compton-thick Active Galactic Nuclei: The Cases of NGC 424, NGC 1320, and IC 2560. Ap. J. 794, 111 (2014).

Barentsen, G., H.J. Farnhill, J.E. Drew, ..., S. Scaringi, et al.: The second data release of the INT Photometric Hα Survey of the Northern Galactic Plane (IPHAS DR2). Mon. Not. R. Astron. Soc. 444, 3230-3257 (2014).

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Bailey, N. et al.: Non-Ideal Magnetohydrodynamic Simulations of the Two-Stage Fragmentation Model for Cluster Formation, OSSF14: The Olympian Symposium on Star Formation, Paralia Katerini's, Greece, May 2014.

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Diehl, R. et al.: Nucleosynthesis ejecta in the Galaxy: Tracing Feedback, Int. Conf. "Nuclei in the Cosmos", Debrecen, Hungary, July 2014.

Haug, M. et al.: Low vibration cooling using a pulse-tube, SPIE Astronomical Telescopes + Instrumentation, Montreal, Canada, June 2014.

Knust, F. et al.: Applying ScaleFit to GROND and Swift/XRT data, Swift: 10 Years of Discovery, Rome, Italy, December 2014.

Lin, M.-Y. et al.: Dense Molecular Gas in Nearby Seyfert Galaxies, The fate of the gas in galaxies, AGN vs Star formation, Durham University, Durham, United Kingdom, July 2014.

Lippa, M. et al.: The GRAVITY metrology system: narrow-angle astrometry via phase-shifting interferometry, SPIE Astronomical Telescopes + Instrumentation, Montreal, Canada, June 2014.

Müller, T.: Fränkische Kleinplaneten, Annual meeting 2014 of the Astronomische Gesellschaft, Tagung des Arbeitskreises Astronomiegeschichte, Bamberg, Germany, September 2014.

Müller, T.: Fränkische Kleinplaneten, Tagung Simon Marius und seine Zeit, Nürnberg, Germany, September 2014.

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Orban de Xivry, Gilles et al.: ARGOS wavefront sensing: detection, computation, and first operation, SPIE Astronomical Telescopes + Instrumentation, Montreal, Canada, June 2014.

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Punanova, A. et al.: Deuterium Fractionation in the Ophiuchus Molecular Cloud, The Olympian Symposium on Star Formation, Paralia Katerini's, Greece, May 2014.

Salazar-Albornoz, S. et al.: Clustering tomography: Measuring cosmological distances trough angular clustering in thin redshift shells, ICTP - International Centre for Theoretical Physics, Trieste, Italy, August 2014.

Tadaki, K.: Bulge Formation in Main-sequence Galaxies at z>2, 3D2014: Gas and stars in galaxies: A multi-wavelength 3D perspective, Munich, Germany, March 2014.

von Kienlin, A.: Search for nuclear gamma-ray line emission from astrophysical sources in the GBM continuous spectral data, Fifth International Fermi Symposium, Nagoya, Japan, October 2014.

Winter, A. et al.: Analysis of the Optical Surface Properties in Indirect Glass Slumping, SPIE Astronomical Telescopes + Instrumentation, San Diego, USA, June 2014.

Vorträge

Alves, F. O.: Magnetic fields in star-forming regions: from molecular clouds to cores, colloquium, National Astronomical Observatory of Japan (NAOJ), Mitaka (Tokyo), Japan, December 2014.

Bailey, N.: Two-stage Fragmentation for Cluster Formation, invited talk, The Early Life of Stellar Clusters: Formation and Dynamics, Copenhagen, Denmark, November 2014.

Boller, Th.: Anfang und Ende des Universums, public talk, Rotary Club Bad Wörishofen, Rotary Club Bad Wörishofen, Germany, February 2014.

Boller, Th.: Astronomie für Schüler, public talk, Grundschule Hallbergmoos, Hallbergmoos, Germany, April 2014.

Boller, Th.: Black Hole imaging as GR test, contributed talk, EWASS 2014, Geneva, Switzerland, June 2014.

Boller, Th.: The Beginn and the end of the universe, public talk, Rotary Club Skofia Loca, Skofia Loca, Slowenia, February 2014.

Boller, Th.: The second ROSAT all-sky survey, invited talk, New Frontiers in Astrophysics, Palermo, Italy, May 2014.

Bruderer, S.: Chemical models of protoplanetary disks, invited talk, Episodic accretion in the embedded and disk phases of protostellar evolution, Leiden, Netherlands, May 2014.

Bruderer, S.: Disk models, colloquium, WISH Key-program meeting, Rome, Italy, Octobre 2014.

Bruderer, S.: Oph IRS 48 observed by ALMA, invited talk, NOVA network II meeting, Leiden, Netherlands, September 2014.

Brusa, M.: Powerful outflows in z~1.5 X-ray obscured QSOs, contributed talk, Multiwavelength-surveys: Galaxy Formation and Evolution from the early universe to today, Dubrovnik, Croatia, March 2014.

Brusa, M.: Quasar feedback in the form of powerful outflows, colloquium, Special seminar at Excellence Cluster Universe, Munich, Germany, July 2014.

Brusa, M.: The AGN content of the eROSITA sky, invited talk, 11th Italian national AGN meeting, Trieste, Italy, September 2014.

Brusa, M.: X-shooter and SINFONI reveal powerful outflows in obscured QSOs, invited talk, ESO lunch talk series, Garching bei Muenchen, Germany, July 2014.

Burtscher, L.: A very close look at Active Galactic Nuclei in the infrared: a diversity of dusty tori, colloquium, New York University of Abu Dhabi, Abu Dhabi, Vereinigte Arabische Emirate, November 2014.

Burtscher, L.: GRAVITY - Observing the universe in motion, invited talk, The Relativistic Astrophysics Group: RAGtime 16, Prag, Tschechische Republik, October 2014.

Burtscher, L.: Interferometric IR observations: a diversity of dusty AGN tori, invited talk, COSPAR 2014, Moscow, Russian Federation, August 2014.

Burtscher, L.: Possible evidence for the disappearance of the AGN torus at low luminosities, contributed talk, IAU Symposium 309: Galaxies in 3D across the universe, Wien, Austria, July 2014.

Burtscher, L.: Studying AGNs with GRAVITY, invited talk, VLTI Community Days, Grenoble, France, January 2014.

Burwitz, V.: Developing, Testing and Calibrating eROSITA, Athena, and other X-ray Optics at the MPE PANTER X-ray Test Facility, contributed talk, International Workshop on X-ray Optics, Prague, Czech Republic, December 2014.

Burwitz, V.: Status / Progress of the eROSITA X-ray Observatory, contributed talk, IACHEC #9, Airlie, USA, March 2014.

Burwitz, V.: Status and operational concept of the eROSITA X-ray Observatory; invited talk, Open University, Milton-Keynes, United Kingdom, February 2014.

Burwitz, V.: Testing and Calibrating the eROSITA X-ray Mirror assemblies, contributed talk, SPIE, Montreal, Canada, June 2014.

Burwitz, V.: The PANTER X-ray Test Facility, contributed talk, International Workshop on XTP, Merate, Italy, November 2014.

Burwitz, V.: The PANTER X-ray Test Facility, contributed talk, SVOM/MXT kick-off meeting, Paris, France, October 2014.

Burwitz, V.: The eROSITA X-ray Survey Telescope, invited talk, Hard X-ray Astronomy: Astrosat and Beyond, Goa, India, September 2014.

Burwitz, V.: The eROSITA all-Sky Survey Telescope, invited talk, Middle Eastern Technical University, Ancara, Turkey, December 2014.

Burwitz, V.: The extended ROentgen Survey with an Imaging Telescope Array: eROSITA, invited talk, Tata Institute of Fundamental Research, Mumbai, India, September 2014.

Buschkamp, P.: LUCI2: binocular and LGS/NGS AO modes of LUCI at the LBT, contributed talk, SPIE Astronomical Telescopes + Instrumentation 2014, Montreal, Canada, June 2014.

Caselli, P.: Astrochemistry and the first steps toward star and planet formation, colloquium, Max-Planck Institute for Nuclear Physics, Heidelberg, Germany, December 2014.

Caselli, P.: Chemistry at the dawn of star formation and links to our Solar System, colloquium, Department of Astronomy, University of Florida at Gainesville, Gainesville, United States, October 2014.

Caselli, P.: Chemistry at the dawn of star formation and links to our Solar System, colloquium, MPIA, Heidelberg, Germany, September 2014.

Caselli, P.: Chemistry at the dawn of star formation and links to our Solar Systems, contributed talk, Department of Astronomy, University of California at Berkeley, Berkeley, United States, July 2014.

Caselli, P.: Introduction to work carried out at MPE, invited talk, Star Formation: Data, Models and Visualization (a Harvard-Heidelberg workshop), Heidelberg, Germany, June 2014.

Caselli, P.: Making life from stardust, public talk, Deutsche Museum (Excellence Cluster), Munich, Germany, November 2014.

Caselli, P.: Physical and chemical processes in star and planet forming regions, colloquium, IRAM, Grenoble, France, April 2014.

Caselli, P.: Physical and chemical processes in the earliest stages of star formation, colloquium, Universitats-Sternwarte Munchen, Munich, Germany, October 2014.

Caselli, P.: Pre-stellar cores and their implication for star formation, invited talk, OSSF14: The Olympian Symposium on Star Formation, Paralia Katerini's, Mount Olympus, Greece, May 2014.

Caselli, P.: Prestellar cores in different environments, contributed talk, Dense Cores: Origins, Evolution and Collapse, Monterey, USA, July 2014.

Caselli, P.: The Center for Astrochemical Studies at MPE, invited talk, ISM-SPP Workshop - Laboratory Astrophysics, Tabarz, Germany, October 2014.

Caselli, P.: The ISM chemistry: today and tomorrow with ALMA, invited talk, EWASS 2014: European Week of Astronomy and Space Science, Geneva, Switzerland, July 2014.

Caselli, P.: The effects of dust temperature on surface chemistry, invited talk, Behind the curtain of dust - the molecular view of activiy in (U)LIRGs, Sexten, Italy, July 2014.

Caselli, P.: The importance of spin-state chemistry for star formation, contributed talk, ESO, Garching, Germany, June 2014.

Contursi, A.: SHINING: Survey with Herschel of the INterstellar Medium in Infrared Nearby Galaxies, colloquium, INAF-Observatory of Bologna, Bologna, Italy, June 2014.

Contursi, A.: SHINING: Survey with Herschel of the INterstellar Medium in Infrared Nearby Galaxies, contributed talk, Colorful galaxies: a conference for the 65th birthday of Peppo Gavazzi,27-30., Como Lake, Italy, April 2014.

Davies, R.: A Strategic View of VLT Proposals, invited talk, ISM-SPP Student Meeting, Freising, Germany, May 2014.

Davies, R.: Extragalactic Astronomy with Adaptive Optics, invited talk, Speed and Sensitivity: Expanding Astronomical Horizons with the E-ELT, Galway, Ireland, May 2014.

Davies, R.: Extragalactic Spectroscopy with Adaptive Optics, invited talk, Astronomical Telescopes and Instrumentation: Adaptive Optics Systems IV, Montreal, Canada, June 2014.

Davies, R.: The Fate of Gas in Seyfert Galaxies, invited talk, The Unquiet Universe, Cefalu, Sicily, June 2014.

Davies, R.: Where do Seyferts get their Gas?, contributed talk, The Fate of Gas in Galaxies: AGN vs Star Formation, Durham, UK, July 2014.

de Jong, J.A.: Spectral Cube Visualisation and Explorer Tool from the Herschel, Interactive Processing Environment (HIPE), contributed talk, Astronomical Data Analysis Software & Systems (ADASS) XXIV, Calgary, Canada, October 2014.

De Marco, B.: Soft X-ray lags, contributed talk, 7th FERO meeting, Krakow, Poland, August 2014.

De Marco, B.: Timing properties and X-ray lags of an ultraluminous X-ray source, contributed talk, The X-ray Universe 2014, Dublin, Ireland, June 2014.

Dennerl, K.: A 3D beaming model for the quiescent emission of accreting magnetars, contributed talk, EWASS 2014 - European Week of Astronomy and Space Science, Geneva, Switzerland, July 2014.

Dennerl, K.: Charge Exchange Astrophysics with Athena, contributed talk, 2nd Athena/WFI proto-consortium meeting, Ringberg castle, Germany, September 2014.

Dennerl, K.: Mars, Venus and comets: similarities and differences in X-rays, invited talk, 6th Alfven Conference: Plasma Interactions with Solar System Objects, London, UK, July 2014.

Dennerl, K.: X-ray Emission from Comets and Planets in the Solar System, invited talk, Frontier Research in Astrophysics, Mondello, Italy, May 2014.

Dexter, J.: Imaging a Black Hole, invited talk, Kavli Frontiers of Science, Irvine (CA), USA, November 2014.

Dexter, J.: Crescent Black Hole Images, invited talk, EHT 2014, Perimeter Institute, Waterloo (Ontario), Canada, November 2014.

Dexter, J.: Spectral signatures of super-luminous supernovae powered by magnetars and black holes, contributed talk, The Structure and Signals of Neutron Stars: from Birth to Death, Florence, Italy, March 2014.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, Munich Joint Astronomy Colloquium (ESO), Garching, Germany, October 2014.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, UCLA Astronomy Colloquium, Los Angeles (CA), USA, May 2014.

Dexter, J.: Imaging a Black Hole Shadow with the Event Horizon Telescope, colloquium, University of Oklahoma Physics Colloquium, Norman (OK), USA, February 2014.

Dexter, J.: A model of the spectra and high-frequency quasi-periodic oscillations in black hole X-ray binaries, colloquium, Stanford/KIPAC Astrophysics tea talk, Stanford (CA), USA, April 2014.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, Northwestern/CIERA seminar, Evanston (IL), USA, February 2014.

Diehl, R.: Cosmic Element Evolution: Overview of Cluster Research Area G, invited talk, Science Week of Universe Cluster of Excellence, Garching, Germany, December 2014.

Diehl, R.: Cosmic radioactivity and INTEGRAL results, colloquium, Colloquium des Maier-Leibnitz-Laboratoriums, Garching, Germany, February 2014.

Diehl, R.: Gamma-Ray Astronomy: Lessons from cosmic radioactive nuclei, colloquium, Physics Colloquium of

Johannes Gutenberg University, Mainz, Germany, May 2014.

Diehl, R.: Gamma-Ray Astronomy: Lessons from cosmic radioactive nuclei, colloquium, Physics Colloquium of Phillips-University, Marburg, Germany, May 2014.

Diehl, R.: Gamma-Rays from a Supernova Ia: SN2014J, invited talk, Astronomical Society of Germany, Highlight Talk, Bamberg, Germany, September 2014.

Diehl, R.: Gamma-ray astronomy and nuclear astrophysics, invited talk, Institute for Advanced Studies of USP, Sao Paulo, Brazil, April 2014.

Diehl, R.: Gamma-ray astronomy and nuclear astrophysics, invited talk, Internat. Summer School on Nuclear Astrophysics, Sinaia, Romania, July 2014.

Diehl, R.: Gamma-ray astronomy and nuclear astrophysics, invited talk, Nuclear Astrophysics Winter School, Russbach, Austria, March 2014.

Diehl, R.: Gamma-ray astronomy: Lessons from cosmic radioactive nuclei, invited talk, European Center for Theoretical Studies in Nuclear Physics and Related Areas, Trento, Italy, September 2014.

Diehl, R.: Kosmische Elemente und ihre Entstehungsgeschichte, public talk, Sternwarte Neumarkt, Abendvortrag, Neumarkt, Germany, February 2014.

Diehl, R.: Measuring current nucleosynthesis products, colloquium, Astrophysics Colloquium of MPIfR and Uni Bonn, Bonn, Germany, April 2014.

Diehl, R.: Nuclear Astrophysics in Germany, invited talk, DFG Round Table Meeting on Nuclear Astrophysics, Berlin, Germany, September 2014.

Diehl, R.: Nucleosynthesis ejecta from SN2014J, contributed talk, Internat. Conf. "Nuclei in the Cosmos", Debrecen, Hungary, July 2014.

Diehl, R.: Radioactivity-traced ejecta in superbubbles, invited talk, Conference on Superbubbles, HI Holes, and Supershells, Freising, Germany, November 2014.

Diehl, R.: Zuendfunke fuer eine Supernova, public talk, Cafe and Cosmos Series of Universe Cluster of Excellence, Muenchen, Germany, December 2014.

Dwelly, T.: SPIDERS: Spectroscopic Identification of eROSITA Sources, invited talk, SDSS eBOSS+BOSS Collaboration meeting @ Cloudcroft/APO, Cloudcroft, NM, USA, December 2014.

Dwelly, T.: eBOSS/SPIDERS:AGN, Target selection and first results, contributed talk, eROSITA Consortium Meeting 2014, AIP, Potsdam, AIP, Potsdam, Germany, October 2014.

Eisenhauer, F.: GRAVITY getting ready for ESO's VLT Interferometer, contributed talk, SPIE Astronomical Telescope + Instrumentation, Montreal, Canada, June 2014.

Eisenhauer, F.: GRAVITY getting ready for ESO's VLT Interferometer, invited talk, La semaine de la SF2A, Paris, France, June 2014.

Eisenhauer, F.: The Galactic Center - Black Hole, Stars, Gas, and Gravity, colloquium, RTG colloquium, Delmenhorst, Germany, December 2014.

Eisenhauer, F.: The Galactic Center Laboratory for Fundamental Physics, invited talk, Fundamental Physics Workshop, Garching, Germany, September 2014.

Förster Schreiber, N.M.: Galaxy Growth at Early Times from 3D Studies, invited talk, 3D2014: Gas and stars in galaxies: A multiwavelength 3D perspective, Garching, Germany, March 2014.

Förster Schreiber, N.M.: Galaxy Growth at Early Times from 3D Studies, invited talk, Gas in and around galaxies, Ringberg, Germany, May 2014.

Förster Schreiber, N.M.: Galaxy Growth at Early Times from 3D Studies, invited talk, IAU Symposium 309: Galaxies in 3D across the Universe, Vienna, Austria, July 2014.

Förster Schreiber, N.M.: Galaxy Surveys at High z with Near-IR IFUs: Key HST-VLT Synergies, invited talk, Science with the Hubble Space Telescope IV: Looking to the future, Rome, Italy, March 2014.

Förster Schreiber, N.M.: Massive Galaxy Growth from 3D Studies, colloquium, Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom, February 2014.

Fedele, D.: Herschel view of protoplanetary disks, colloquium, ESTEC, The Netherlands, Decemeber 2014.

Fedele, D.: Infrared observations of protoplanetary disks, colloquium, INAF - Rome, Italy, March 2014.

Fedele, D.: Molecular reservoirs in Herbig AeBe disks, colloquium, INAF - Arcetri, Italy, March 2014.

Fedele, D.: The role of photoprocesses in the chemical composition of Herbig AeBe disks, contributed talk, Herbig AeBe stars: the missing link in star formation, ESO - Santiago, Chile, April 2014.

Genzel, R.: Evidence for wide-spread AGN driven outflows in the most massive z~1-2 star forming galaxies, colloquium, MPE Infrared Group Tea Talk, Garching, Germany, July 2014.

Genzel, R.: Galaxien und Massereiche Schwarze Löcher, colloquium, Session of the Class of Mathematics and Natural Sciences, Bayerische Akademie der Wissenschaften (Bavarian Academy of Sciences), Munich, Germany, December 2014.

Genzel, R.: Gas build-up in galaxies, invited talk, IAU Symp. 311 “Galaxy Masses as Constraints of Formation Models”, Oxford, United Kingdom, July 2014.

Genzel, R.: Massive Black Holes and Galaxies, invited talk, Kavli Prize Sympoisum on Astrophysics, Oslo, Norway, September 2014.

Genzel, R.: Massive Black Holes and Galaxies, invited talk, SETI Institute, Mountain View, USA, August 2014.

Genzel, R.: Massive Black Holes: Evidence, Demographics and Cosmic Evolution, invited talk, 26th Solvay Conference, Brussels, Brussels, Belgium, October 2014.

Genzel, R.: Massive schwarze Löcher und Galaxien, public talk, IAU Symposium 309 “Galaxies in 3D Across the Universe“, Vienna, Austria, July 2014.

Genzel, R.: SF at the peak of the galaxy formation epoch, invited talk, IAU Symposium 309 “Galaxies in 3D Across the Universe“, Vienna, Austria, July 2014.

Genzel, R.: The GRAVITY VLT(I) experiment: goals and status, colloquium, lunch talk, University of California, Berkeley, USA, February 2014.

Genzel, R.: The evolution of massive star forming disks at the peak of the galaxy formation epoch, invited talk, Keynote Lecture for the Johann Wempe Award, Leibniz Institute for Astrophysics (AIP), Potsdam, Germany, June 2014.

Genzel, R.: Massereiche Schwarze Löcher und Galaxien, invited talk, Gutenberg-Vortrag, University of Mainz, Mainz, Germany, June 2014.

Genzel, R.: Massive Black Holes and Galaxies, colloquium, Joint Theory Colloquium, DESY & Hamburg University, Hamburg, Germany, May 2014.

Genzel, R.: Massive Black Holes and Galaxies, public talk, IAU Symp. 311 “Galaxy Masses as Constraints of Formation Models”, Oxford, United Kingdom, July 2014.

Genzel, R.: Milky Way Galactic Center Black Hole, invited talk, Conference “Lessons from the Local Group” in honor of David Block and Bruce Elmegreen, Mah&eacute, Seychelles, May 2014.

Genzel, R.: Outflows from high-redshift galaxies, invited talk, Ringberg Workshop on Galaxy Evolution, Kreuth, Germany, May 2014.

Genzel, R.: The formation and evolution of massive star forming disks, colloquium, Astronomy Department, University of Berkeley, Berkeley, USA, January 2014.

Genzel, R.: Weighing the black hole in the Galactic center, invited talk, Heraeus Meeting “The strong gravity regime of black holes and neutron stars”, Bad Honnef, Germany, March 2014.

Gerhard, O.E.: Dark Matter and Dynamics In the Outer Halos of Early-Type Galaxies, invited talk, IAU Symposium 311, `Galaxy Masses as Constraints of Formation Models', Oxford, UK, July 2014.

Gerhard, O.E.: Dark matter environment of exponential disks, invited talk, The Formation and Evolution of Exponential Disks in Galaxies, Flagstaff, USA, October 2014.

Gerhard, O.E.: Dynamical Structure and Evolution of the Galactic Bulge, invited talk, Formation and Evolution of the Galactic Bulge, Sesto, Italy, January 2014.

Gerhard, O.E.: Dynamical modeling, invited talk, Gaia Challenge Workshop, Heidelberg, Germany, October 2014.

Gerhard, O.E.: Photometric surveys of the Galactic bulge, invited talk, The Universe of Digital Sky Surveys, Napoli, Italy, November 2014.

Gerhard, O.E.: The Galactic Bulge, colloquium, Garching, Germany, January 2014.

Gerhard, O.E.: The Milky Way Bar, invited talk, Lessons from the Local Group, Mahe, Seychelles, May 2014.

Gerhard, O.E.: The new Milky Way Bar and Bulge, colloquium, La Laguna, Tenerife, Spain, September 2014.

Gillessen, S.: A gas cloud on its way to the Galactic Center Black Hole, colloquium, NRAO, Socorro, USA, April 2014.

Gillessen, S.: A gas cloud on its way to the Galactic Center Black Hole, colloquium, University of Stockholm, Stockholm, Sweden, April 2014.

Gillessen, S.: A gas cloud on its way to the Galactic Center Black Hole, invited talk, COSPAR meeting, Moscow, Russia, August 2014.

Gillessen, S.: A gas cloud on its way to the Galactic Center Black Hole, invited talk, Conference "The Unquiet Universe", Cefalu, Italy, June 2014.

Gillessen, S.: A gas cloud on its way to the Galactic Center Black Hole, invited talk, Conference "Zeldovich-100", Moscow, Russia, June 2014.

Gillessen, S.: A gas cloud on its way to the Galactic Center Black Hole, invited talk, EWASS Meeting, Geneva, Switzerland, July 2014.

Gillessen, S.: A gas cloud on its way toward the Galactic Center black hole Sgr A*, colloquium, Amsterdam, The Netherlands, February 2014.

Gillessen, S.: Adaptive optics observations of the Galactic Center, invited talk, ESO Conference: Astronomy at High Angular Resolution, Garching, Germany, November 2014.

Gillessen, S.: Fatal fate: A gas cloud on its way to the massive black hole in the Galactic Center, colloquium, Universe Cluster, Garching, Germany, October 2014.

Gillessen, S.: Ferne Planetenwelten, public talk, Anton-Bruckner-Gymnasium Straubing, Straubing, Germany, January 2014.

Gillessen, S.: Feuerwerk im Zentrum der Milchstraße, public talk, Planetarium Stuttgart, Stuttgart, Germany, February 2014.

Gillessen, S.: Fireworks at the "Galactic Center black hole"?, public talk, APS Meeting, Savannah, USA, April 2014.

Gillessen, S.: Fireworks at the "Galactic Center black hole"?, public talk, Planetarium Hamburg, Hamburg, Germany, September 2014.

Gillessen, S.: GRAVITY - Exploring Physics Close to the Galactic Center Black Hole with Infrared Interferometry, invited talk, EHT Meeting, Waterloo, Canada, November 2014.

Gillessen, S.: Groß, Größer, Am Schärfsten, public talk, Forum der Interface AG, Munich, Germany, July 2014.

Gillessen, S.: SINFONI in the Galactic Center - A stellar Ballet and a gaseous Scherzo, invited talk, ESO conference: 3D 2014, Garching, Germany, March 2014.

Gillessen, S.: The Galactic Center - (I) Hunting for a black hole, invited talk, Summerschool, Vienna, Austria, July 2014.

Gillessen, S.: The Galactic Center - (II) Playing with a black hole, invited talk, Summerschool, Vienna, Austria, August 2014.

Gillessen, S.: The gas cloud G2 in the Galactic Center, invited talk, AAS Meeting, Washington, USA, January 2014.

Graciá-Carpio, J.: FIR fine structure lines in galaxies: from PACS to SAFARI, contributed talk, European SPICA Sci-

ence Workshop, Leiden, The Netherlands, May 2014.

Greiner, J.: A classification engine for X-ray transients, contributed talk, EXTraS Kick-off Meeting, Milano, Italy, January 2014.

Greiner, J.: AstroMeV: Towards a sensitive survey of the gamma-ray sky between 100 keV and 100 MeV, contributed talk, GRB conference "20 years Konus-Wind", St. Petersburg, Russia, September 2014.

Greiner, J.: GROND coverage of the main peak of GRB 130925A, contributed talk, "10 yrs Swift" conference, Rome, Italy, December 2014.

Greiner, J.: GROND coverage of the main peak of GRB 130925A, contributed talk, GRB conference "20 years Konus-Wind", St. Petersburg, Germany, September 2014.

Greiner, J.: GROND: capabilities for transient follow-up, contributed talk, Gaia Science Alert Team Meeting, Warszaw, Poland, September 2014.

Greiner, J.: GROND: capabilities for transient follow-up, invited talk, AMON conference, Zeuthen, Germany, December 2014.

Greiner, J.: Recent progress in the understanding of GRBs, colloquium, MPIfR Koll., Bonn, Germany, April 2014.

Greiner, J.: The afterglow of GRBs, invited talk, GRB conference "20 years Konus-Wind", St. Petersburg, Russia, September 2014.

Greiner, J.: X-ray transients and follow-up with GROND, contributed talk, eROSITA Meeting, Potsdam, Germany, September 2014.

Haberl, F.: BeXRBs in the SMC: how many are there?, contributed talk, BeXRB 2014, Valencia, Spain, July 2014.

Haberl, F.: The XMM-Newton survey of the Large (and Small) Magellanic Cloud, invited talk, The X-ray Universe 2014, Dublin, Ireland, June 2014.

Haerendel, G.: Magnetic fractures or reconnection of Type II or the auroral arc mechanism, invited talk, Parker Workshop on Reconnection, São José dos Campos, Brasilien, March 2014.

Haerendel, G.: A new look at the mysterious substorm onset, colloquium, Space Sciences Laboratory, UC Berkeley, Berkeley, USA, May 2014.

Haerendel, G.: M-I coupling scales and energy dumping, contributed talk, Asia Oceanic Geosciences Society, Annual General Meeting 2014, Sapporo, Japan, July 2014.

Haerendel, G.: Auroral arcs as tracers of a dynamic magnetosphere, invited talk, Asia Oceanic Geosciences Society, Annual General Meeting 2014, Sapporo, Japan, July 2014.

Haerendel, G.: Plasma Entry from Tail into the Dipolar Magnetosphere During Substorms, contributed talk, COSPAR Scientific Assembly 2014, Moscow, August 2014.

Haerendel, G.: Begegnung mit einem Kometen, public talk, Café & Cosmos, Muffat Werk, München, September 2014.

Hocuk, S.: The role of small and large scale physics in numerical studies of star formation, contributed talk, Niels Bohr Institute: Early life of stellar clusters, Copenhagen, Denmark, November 2014.

Ivlev, A.: Compact dusty clouds in cosmic environment, contributed talk, 40th COSPAR Scientific Assembly, Moscow, Russia, August 2014.

Ivlev, A.: Complex Plasmas: Particle-resolved Studies of Classical Liquids and Solids, invited talk, 78th Annual Meeting of the DPG, Berlin, Germany, March 2014.

Ivlev, A.: Equilibrium and non-equilibrium melting of two-dimensional plasma crystals, colloquium, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany, June 2014.

Ivlev, A.: Fluid demixing in binary complex plasmas under microgravity, contributed talk, 40th COSPAR Scientific Assembly, Moscow, Russia, August 2014.

Ivlev, A.: Statistical mechanics where Newton’s third law is broken, invited talk, Bauman Moscow State Technical University, Moscow, Russia, December 2014.

Janssen, A.: Do we expect to see very high (J > 30) CO rotational lines in AGN centers?, contributed talk, ISM-SPP Student Meeting, Freising, Germany, May 2014.

Kanbach, G.: Blitze, Ausbrüche und Explosionen im All: Astronomie im Sekundentakt, public talk, Fritz-Weithas-Volkssternwarte, Neumarkt/Opf., Germany, April 2014.

Kanbach, G.: Fast Photon Counting Photometry in the era of ELTs, invited talk, Speed & Sensitivity: Expanding Astronomical Horizons with ELTs, Galway, Ireland, May 2014.

Kanbach, G.: Signatures of Electron and/or Ion acceleration in cosmic sources, contributed talk, ASTROGAM Workshop, IAPS Rome, Rome, Italy, December 2014.

Kanbach, G.: The OPTIMA experience, invited talk, Vienna Fast Photometer Workshop, Vienna, Austria, November 2014.

Klecker, B.: Energetic particle ionic charge states: a clue to their sources and acceleration, colloquium, Beijing University, Beijing, China, September 2014.

Krause, M.G.H.: Gamma-Linien radioaktiver Isotope im Interstellaren Medium und in Supernovae, invited talk, "Astroteilchenphysik in Deutschland - Status und Perspektiven", Karlsruhe Institut fuer Technologie KIT, Germany, Karlsruhe, Germany, October 2014.

Krause, M.G.H.: Two superbubble models: weakly vs. strongly dissipative, invited talk, Superbubbles, HI holes and Supershells, Freising, Germany, November 2014.

Krause, M.G.H.: 3D Hydro Simulations of the interstellar medium around massive-star groups, invited talk, Research Area G science day, Excellence Cluster Universe, Garching, Germany, July 2014.

Krause, M.G.H.: A detailed feedback scenario for globular clusters and implications for the formation of second-generation stars, contributed talk, A Critical Look at Globular Cluster Formation Theories: Constraints from Young Massive Clusters, Sexten, Italy, July 2014.

Krause, M.G.H.: Superbubble hot gas kinematics from gamma ray line shifts, colloquium, University of Bochum,

Bochum, Germany, February 2014.

Krause, M.G.H.: Synthetic X-ray observations of superbubble simulations, contributed talk, Interstellar Medium splinter at AG Tagung, Bamberg, Germany, September 2014.

Lang, P.: Bulge Growth and Quenching since z = 2.5 in CANDELS/3D-HST, contributed talk, Star Formation across Space and Time, Noordwijk, The Netherlands, November 2014.

Lang, P.: Bulge Growth and Quenching since z = 2.5 in CANDELS/3D-HST, invited talk, Centro de Astrofisica da Universidade do Porto, Porto, Portugal, November 2014.

Lutz, D.: AGN driven nuclear outflows in massive star-forming galaxies, contributed talk, AGN vs. Star Formation, Durham, UK, July 2014.

Lutz, D.: Evolving galaxies in the distant universe: From Herschel to SPICA, invited talk, Spica science workshop, Leiden, The Netherlands, May 2014.

Lutz, D.: From (U)LIRGs to main sequence: A Herschel view on infrared galaxies, invited talk, Science with APEX, Schloss Ringberg, Germany, January 2014.

Lutz, D.: From ULIRGs to main sequence: A Herschel view on galaxies and AGN, contributed talk, The unquiet universe, Cefalu, Italy, June 2014.

Müller, T.: Apophis, colloquium, ESO stellar coffee and planetary tea meeting, Germany, December 2014.

Müller, T.: Apophis: Larger and much heavier than previously thought!, contributed talk, ASTEROIDS, COMETS, METEORS 2014, Helsinki, Finland, July 2014.

Müller, T.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, colloquium, Bayernkolleg, Schweinfurt, Germany, November 2014.

Müller, T.: Hayabusa-2 Mission Target Asteroid 162173 (1999 JU3): Searching for the Object's Spin-Axis Orientation, contributed talk, ASTEROIDS, COMETS, METEORS 2014, Helsinki, Finland, June 2014.

Müller, T.: Herschels kalter Blick ins Universum: Von erdnahen Objekten bis zu den entferntesten Galaxien, invited talk, Deutscher Luft- und Raumfahrtkongress 2014, Augsburg, Germany, September 2014.

Müller, T.: Interpretation of thermal emission: II. The effects of surface roughness and thermal inertia for disk-integrated measurements of atmosphereless bodies. The cases of main-belt asteroid (21) Lutetia and near-Earth asteroid (25143) Itokawa, contributed talk, ISSI meeting "Deriving Physical Parameters of Atmosphereless Bodies in the Solar System by Modelling their Thermal Emission", Bern, Switzerland, May 2014.

Müller, T.: Main results on asteroids and comets returned from the Herschel mission, invited talk, The 40th COSPAR Scientific Assembly, Moscow, Russia, August 2014.

Müller, T.: Near-Earth to Trans-Neptunian Objects: Characterization of small bodies from thermal IR/submm observations, colloquium, ALMA colloquium, Santiago, Chile, October 2014.

Müller, T.: The thermal lightcurve of Ceres as measured by the Herschel Space Observatory, contributed talk, ASTEROIDS, COMETS, METEORS 2014, Helsinki, Finland, July 2014.

Müller, T.: Zwischen den Planeten: Von Asteroiden und Kometen, public talk, Cafe&Kosmos, Munich, Germany, February 2014.

Mantovani, G.: Relativistic Iron K-alpha line detection in the Suzaku spectra of IC 4329A, contributed talk, AGN 11, Trieste, Italy, September 2014.

Mantovani, G.: Relativistic Iron K-alpha line detection in the Suzaku spectra of IC 4329A, contributed talk, The X-ray Universe, Dublin, Ireland, June 2014.

Meidinger, N.: Athena WFI Instrument Overview, contributed talk, Athena proto-consortium meeting, Schloss Ringberg, Germany, September 2014.

Meidinger, N.: PNCCD detectors, contributed talk, SVOM MXT consortium meeting, Paris, France, October 2014.

Meidinger, N.: Report on the eROSITA Camera System, contributed talk, Astronomical Telescopes and Instrumentation, SPIE 2014, Montreal, Canada, June 2014.

Meidinger, N.: Status and Performance of the eROSITA Detectors, contributed talk, eROSITA Consortium Meeting, Potsdam, Germany, September 2014.

Meidinger, N.: The Wide Field Imager Instrument for Athena, contributed talk, Athena CDF Meeting, ESTEC, The Netherlands, September 2014.

Meidinger, N.: The Wide Field Imager Instrument for Athena, invited talk, Astronomical Telescopes and Instrumentation, SPIE 2014, Montreal, Canada, June 2014.

Menzel, M.-L.: A Spectroscopic Survey of X-ray Selected AGN in the Northern XMM-XXL field, invited talk, eBOSS Meeting SDSS-IV, Utah, Salt Lake City, USA, July 2014.

Merloni, A.: Future large AGN samples for clustering measurements: eROSITA and its AGN sample, invited talk, Clustering Measurements of Active Galactic Nuclei, Garching, Germany, July 2014.

Merloni, A.: The SPIDERS Survey, invited talk, SDSS-IV collaboration Meeting, Park City, Utah, USA, July 2014.

Merloni, A.: The SRG/eROSITA All-sky survey, invited talk, "Exploiting VST ATLAS... and its sister surveys", Durham, UK, April 2014.

Merloni, A.: The eROSITA all-sky survey, invited talk, Conference Future Directions in Galaxy Cluster Surveys, Paris, France, June 2014.

Merloni, A.: The eROSITA all-sky survey: Mapping the structure of the Energetic Universe, colloquium, DARK Cosmology Center, Copenhagen, Denmark, August 2014.

Merloni, A.: The eROSITA all-sky survey: synergies with SKA, invited talk, GLOWSKA Meeting, Bielefeld, Germany, February 2014.

Merloni, A.: The eROSITA all-ky survey: a global view of the hot Universe, invited talk, Excellence Cluster Universe Science Week, Garching, Germany, December 2014.

Merloni, A.: The host galaxies of X-ray AGN: Feeding and feedback, invited talk, The Evolution of Galaxies in the Lo-

cal Universe, Innsbruck, Austria, May 2014.

Merloni, A.: The host galaxies of X-ray selected AGN: Feeding and feedback, contributed talk, X-ray Universe 2014, Dublin, Ireland, June 2014.

Merloni, A.: Understanding AGN evolution with large X-ray surveys, colloquium, MPIA Heidelberg, Heidelberg, Germany, January 2014.

Nandra, K.: The evolving energetic Universe and the future of X−ray astronomy, colloquium, Festkolloquium anlässlich des 75. Geburtstages von Prof. Rüdiger Staubert, Tübingen, Germany, April 2014.

Nandra, K.: Athena, colloquium, Cambridge Colloquium, Cambridge, UK, May 2104.

Nandra, K.: The Athena Observatory, invited talk, Athena Proposal Workshop, Machida, Japan, May 2014.

Nandra, K.: The Future of X-ray Astronomy, invited talk, The X-ray Universe 2014, Dublin, Ireland, June 2014.

Nandra, K.: Athena: exploring the hot and energetic universe, invited talk, SPIE 2014, Montreal, Canada, June 2014.

Nandra, K.: Athena: exploring the hot and energetic universe, invited talk, AAS-HEAD #14 meeting, Chicago, USA, August 2014.

Nandra, K.: X-ray Astronomy: Present and Future, invited talk, AG Tagung: The Variable Sky: from Tiny Variations to Big Explosions, Bamberg, Germany, September 2014.

Pon, A.: Hide and Go Seek: Possible Places for Life in the Universe, public talk, Harrogate Astronomical Society monthly meeting, Harrogate, England, April 2014.

Pon, A.: How to Blow a (Super)Bubble in Space: The Orion-Eridanus Superbubble, public talk, Royal Astronomical Society of Canada's Annual General Meeting, Victoria, Canada, June 2014.

Pon, A.: Molecular Tracers of Low Velocity Shocks in Molecular Clouds, invited talk, Canadian Astronomical Society's Annual Meeting, Quebec City, Canada, June 2014.

Predehl, P.: Spectrum Roentgen Gamma, invited talk, The X-ray Universe 2014, Dublin, Ireland, June 2014.

Predehl, P.: eROSITA on SRG, contributed talk, SPIE Astronomical Telescopes and Instrumentation, Montreal, Canada, June 2014.

Predehl, P.: eROSITA on Spektrum-Roentgen-Gamma, invited talk, International Conference Zeldovich-100, Moscow, Russia, June 2014.

Raab, W.: The ARGOS laser system: green light for ground layer adaptive optics at the LBT, contributed talk, SPIE Astronomical Telescopes and Instrumentation, Montreal, Canada, June 2014.

Rabien, S.: Status of the ARGOS project, invited talk, Astronomical Telescopes and Instrumentation, SPIE 2014, Montreal, Canada, June 2014.

Rau, A.: The Wide Field Imager for the Athena X-ray Observatory, contributed talk, The X-ray Universe, Dublin, Irland, June 2014.

Rau, A.: The Wide Field Imager for the Athena X-ray Observatory, invited talk, COSPAR 2014, Moscow, Russia, August 2014.

Rau, A.: WFI Science & Instrument Requirements, invited talk, Athena Kick-Off Meeting (Garching), Garching, Germany, January 2014.

Rau, A.: Wide Field Imager - Status, contributed talk, X-IFU Consortium Meeting, Frascati, Italy, October 2014.

Rosario, D.: Star-formation in powerful and obscured AGN, contributed talk, AGN versus star formation: the fate of the gas in galaxies, Durham, UK, July 2014.

Rosario, D.: Star-formation and nuclear activity in galaxies: A perspective in the era of the Herschel Space Telescope, colloquium, Sheffield University, Sheffield, UK, October 2014.

Rosario, D.: Star-formation and nuclear activity in galaxies: A perspective in the era of the Herschel Space Telescope, colloquium, University of St. Andrews, St. Andrews, UK, October 2014.

Rosario, D.: Star-formation and nuclear activity in galaxies: A perspective in the era of the Herschel Space Telescope, contributed talk, Durham University, Durham, UK, October 2014.

Rosario, D.: Star-formation and nuclear activity in galaxies: A perspective in the era of the Herschel Space Telescope, contributed talk, Liverpool John Moores University, Liverpool, UK, October 2014.

Rosario, D.: Star-formation and nuclear activity in galaxies: A perspective in the era of the Herschel Space Telescope, contributed talk, University of Hertfordshire, Hertfordshire, UK, October 2014.

Rosario, D.: Star-formation and nuclear activity in galaxies: A perspective in the era of the Herschel Space Telescope, contributed talk, University of Oxford, Oxford, UK, October 2014.

Rosario, D.: The Herschel Perspective on Star-Formation in Powerful AGN, contributed talk, Powerful AGN Across Cosmic Time, Port Douglas, Australia, June 2014.

Saglia, R.: Template Fitting Algorithms, invited talk, OU-PHZ Euclid Meeting, Geneva, Switzerland, June 2014.

Saglia, R.: PV1 3pi photometric redshifts from the Photometric Classification Server, invited talk, Panstarrs Meeting, Baltimore, USA, June 2014.

Saglia, R.: Supermassive black holes, sizes and densities of bulges: the black hole Fundamental Plane revisited, colloquium, Dartmouth College, Dartmouth, USA, June 2014.

Sanchez, A.G.: BOSS-DR12 clustering wedges, contributed talk, SDSS collaboration meeting, Park City, USA, July 2014.

Sanchez, A.G.: Baryon Acoustic Oscillations, invited talk, AG annual meeting, Bamberg, Germany, September 2014.

Sanchez, A.G.: Baryon Acoustic Oscillations, invited talk, The extragalactic distance scale, Garching, Germany, June.

Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, Instituto de Astrofísica de Canarias, La Laguna, Spain, November 2014.

Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, Munich Joint Astronomy Colloquium, Garching, Germany, January 2015.

Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, invited talk, TR33 2014 meeting, Heidelberg, Germany, October 2014.

Sanchez, A.G.: Full-shape analysis of two- and three-point clustering statistics in BOSS DR12, invited talk, BOSS/eBOSS collaboration meeting, Cloudcroft, USA, December 2014.

Sanchez, A.G.: HETDEX catalogue construction, contributed talk, HETDEX Science meeting, State College, USA, May 2014.

Sanchez, A.G.: Measuring redshift space distortions with clustering wedges, invited talk, Darklight workshop: measuring and modelling redshift space distortions, Sexten, Italy, July 2014.

Sanchez, A.G.: The clustering of galaxies in BOSS, invited talk, Interdisciplinary Cluster workshop on Statistics, Garching, Germany, February 2014.

Sanders, J. S.: Discovery and identification of massive linear structures in the Coma, cluster of galaxies, contributed talk, COSPAR 2014, Moscow, Russia, August 2014.

Sanders, J. S.: Observing AGN Feedback in Galaxy Clusters and Groups with Athena, invited talk, COSPAR 2014, Moscow, Russia, August 2014.

Schruba, A.: Large-Scale Mass Assembly of Molecular Clouds – Extragalactic Perspective, invited talk, Mass assembly from clouds to clusters, Sexten, Italy, July 2014.

Schruba, A.: Molecular Cloud and Star Formation from Galactic to Sub-Cloud Scale: A Detailed Study of Andromeda and NGC6822, contributed talk, From Galactic to Extragalactic Star Formation – GESF2014, Marseille, France, September 2014.

Schruba, A.: The 3D Perspective on the Interstellar Medium and Star Formation in Andromeda, contributed talk, 3D2014: Gas and stars in galaxies: A multi-wavelength 3D perspective, Munich, Germany, March 2014.

Sturm, E.: Feedback and Outflows as science case for SPICA, contributed talk, SPICA Science Workshop, Leiden, Netherlands, May 2014.

Tacconi, L. J.: High Redshift Galaxies: Gas, Star Formation and Dynamics, invited talk, Lessons from the Local Group: in Honor of David Block and Bruce Elmegreen, Mahe, Seychelles, May 2014.

Tacconi, L. J.: In Situ View of High-z Star Forming Galaxies: IR to mm Observations, invited talk, Star Formation in Galaxies: from Small to Large Scales, European Week of Astronomy and Space Science, Geneva, Switzerland, July 2014.

Tacconi, L. J.: Observations of Gas and Dust in Disks at High Redshift, invited talk, The Formation and Evolution of Exponential Disks in Galaxies, Flagstaff, Arizona, USA, October 2014.

Tacconi, L. J.: PHIBSS: Star Formation, Dynamics and Scaling Relations in High-z Galaxies, invited talk, Galaxies in 3D Across the Universe, IAU Symposium 309, Vienna, Austria, July 2014.

Tacconi, L. J.: Star Formation in Young, High Redshift Galaxies, invited talk, European Week of Astronomy and Astrophysics, Plenary Lecture, Geneva, Switzerland, June 2014.

Tacconi, L. J.: Star Formation, Molecular Gas Fractions and Gas Dynamics in High-redshift Galaxies, colloquium, SFB Colloquium, University of Cologne, Cologne, Germany, January 2014.

Tacconi, L. J.: Star Formation, Molecular Gas and Galaxy Dynamics at the Peak of the Galaxy Formation Epoch, colloquium, Carnegie Observatories, Pasadena, California, USA, February 2014.

Tacconi, L. J.: The Evolution of Molecular Gas & Star Formation from the Peak Epoch of Galaxy Formation to the Present, colloquium, Astronomy Department, UC Berkeley, Berkeley, California, USA, September 2014.

Tacconi, L.J.: NOEMA: NOrthern Extended Millimeter Array, Project Update, invited talk, Astronomy Department, UC Berkeley, Berkeley, California, USA, September 2014.

Thomas, J.: Massive Elliptical Galaxies: BH Scouring or a Bottom-Heavy IMF?, contributed talk, IAU Symposium No. 311: Galaxy Masses as Constraints of Formation Models, Oxford, UK, July 2014.

Trümper, J.: Das Schwarze Loch im Zentrum der Milchstraße, public talk, Mittwochkreis im IBZ München, München, Germany, February 2014.

Trümper, J.: Rüdiger Staubert 75 - My five Decades with Rüdiger, invited talk, Institut für Astronomie und Astrophysik (Uni. Tübingen), Tübingen, Germany, September 2014.

van Dishoeck, E.F.: Astrochemistry of dust, ice and gas: introduction and overview, invited talk, Faraday Discussion 168, Noordwijkerhout, Netherlands, April 2014.

van Dishoeck, E.F.: Building Bridges: my career in the exciting interdisciplinary field of astrochemistry, public talk, Clare McMahon Diversity lecture, Queens' University, Belfast, UK, November 2014.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Lise Meitner Award lecture, Chalmers University, Gothenburg, Sweden, September 2014.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, invited talk, Annual meeting, Leopoldina Academy, Halle, Germany, March 2014.

van Dishoeck, E.F.: Disks in the embedded phase of star formation: observations vs theory, colloquium, Universidad de Chile, Santiago, Chile, August 2014.

van Dishoeck, E.F.: From IRAS to ISO and Herschel: development of infrared astronomy, invited talk, Minisymposium Harm Habing book, Leiden, Netherlands, February 2014.

van Dishoeck, E.F.: From molecules to planets and stars: summary, invited talk, From molecules to planets and stars, Gothenburg, Sweden, September 2014.

van Dishoeck, E.F.: Photon-dominated regions: chemistry, thermal balance and their impact on star formation, invited talk, Olympian symposium on star formation, Paralia, Greece, May 2014.

van Dishoeck, E.F.: Quantifying the gas inside dust cavities in transitional disks:implications for young planets, contributed talk, Revolution in astronomy with ALMA: the 3rd year, Tokyo, Japan, December 2014.

van Dishoeck, E.F.: Sweet results from ALMA, public talk, ALMA symposium for the public, Tokyo, Japan, December 2014.

van Dishoeck, E.F.: Water in space: from interstellar clouds to planets, colloquium, Queens' University, Belfast, UK, November 2014.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA, colloquium, Australia National University, Mt. Stromlo, Canberra, Australia, May 2014.

Vilenius, E.: "TNOs are Cool": A Herschel survey of the trans-Neptunian region, colloquium, Excellence Cluster Universe, Garching, Germany, February 2014.

Vilenius, E.: Analysis of classical Kuiper belt objects and Haumea collisional family from Herschel and Spitzer observations, contributed talk, Asteroids, Comets, Meteors, Helsinki, Finland, July 2014.

Winter, A.: X-Ray Telescope Mirrors Made of Slumped Glass Sheets, contributed talk, ICSO International Conference on Space Optics, Costa Adeje, Tenerife, Spain, October 2014.

Wisnioski, E.: KMOS^{3D}: The evolution of resolved kinematics from z=2.7-0.7, contributed talk, European Week of Astronomy and Space Science 2014, Geneva, Switzerland, July 2014.

Wisnioski, E.: KMOS^{3D}: The evolution of resolved kinematics from z=2.7-0.7, contributed talk, Galaxy formation & evolution from the early universe to today, Dubrovnik, Croatia, May 2014.

Wisnioski, E.: KMOS^{3D}: The evolution of resolved kinematics from z=2.7-0.7, contributed talk, Gas and stars in galaxies: A multi-wavelength 3D perspective, ESO, Garching, Garching, Germany, March 2014.

Wisnioski, E.: KMOS^{3D}: The evolution of resolved kinematics from z=2.7-0.7, invited talk, Decoding the Assembly of Galaxy, The Lorentz Center, Leiden, The Netherlands, October 2014.

Wisnioski, E.: KMOS^{3D}: design, first results, and the evolution of resolved kinematics, invited talk, Australian Astronomical Observatory, Sydney, Australia, October 2014.

Wisnioski, E.: KMOS^{3D}: design, first results, and the evolution of resolved kinematics, invited talk, University of Sydney, Sydney, Australia, October 2014.

Wisnioski, E: KMOS^{3D}: design, first results, and the evolution of resolved kinematics, invited talk, Swinburne University of Technology, Melbourne, Australia, September 2014.

Wuyts, E.: Addressing galaxy abundances at 0.7<z<2.5 with KMOS^{3D}, contributed talk, Multiwavelength-surveys:Galaxy Formation and Evolution from the early universe to today, Dubrovnik, Croatia, May 2014.

Wuyts, E.: Probing the relevant scales of star formation within strongly lensed galaxies at z=2-3, contributed talk, Galaxies and Cosmology in Light of Strong Lensing, Tokyo, Japan, November 2014.

Wuyts, E.: The Evolution of Resolved Kinematics and Metallicity from z=2.7 to 0.7 with LUCI, SINS and KMOS^{3D}, contributed talk, IAU309: Galaxies in 3D across the Universe, Vienna, Austria, July 2014.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, Australian National University, Canberra, Australia, September 2014.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, Boston University, Boston, USA, October 2014.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, Harvard-Smithsonian Center for Astrophysics, Cambridge, USA, October 2014.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, University of Michigan, Ann Arbor, USA, October 2014.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, University of Pennsylvania, Philadelphia, USA, October 2014.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, University of Toronto, Toronto, Canada, February 2014.

Wuyts, S.: Observations of stars in disks at high redshift, invited talk, The formation and evolution of exponential disks, Flagstaff, USA, October 2014.

Wuyts, S.: Resolved stellar populations and the mass budget in early disks, contributed talk, Galaxies in 3D across the universe, Vienna, Austria, July 2014.

Wuyts, S.: Resolved stellar populations, bulge growth and quenching, contributed talk, Gas and Stars in Galaxies: A Multi-wavelength 3D Perspective, Munich, Germany, March 2014.

Wuyts, S.: Resolved stellar populations, bulge growth and quenching, invited talk, Gas in and around galaxies, Ringberg, Germany, May 2014.

Yu, H.-F.: Synchrotron Cooling in Hard and Bright Gamma-Ray Bursts, contributed talk, Gamma-Ray Bursts in the Multi-Messenger Era Workshop, Paris, France, June 2014.

Yu, H.-F.: Synchrotron Cooling in the Hardest Gamma-Ray Bursts Observed by the Fermi GBM, contributed talk, Annual meeting of the Astronomische Gesellschaft, Bamberg, Germany, September 2014.

Yu, H.-F.: Synchrotron Cooling in the Hardest Gamma-Ray Bursts Observed by the Fermi GBM, contributed talk, The 5th Fermi Asian Network Workshop, Yilan, Taiwan, July 2014.

Dissertationen

Brucalassi, A.: Search for extra-solar planets with high precision radial velocity curves. Ludwig-Maximilians-Universität München 2014.

Großberger, C.: New Developments and Techniques in Radio to X-ray observations of AGN. Friedrich-Alexander-Universität Erlangen-Nürnberg 2014.

Karska, A.: Feedback from deeply embedded low- and high-mass protostars: surveying hot molecular gas with Herschel. MPE/Leiden University 2014.

Orban de Xivry, G.: The ARGOS Wavefront Sensor Detector and Computer, and the Black Hole Growth of Narrow-Line Seyfert 1 Galaxies. Ludwig-Maximilians-Universität München Munich 2014.

Zendejas Dominguez, J.: Searching for transits in the WTS with the difference imaging light curves. Ludwig-Maximilians-Universität München 2014.

Masterarbeiten

Fuchs, L.: Galaxy structure in color: constraints on resolved stellar populations in distant galaxies. Technische Universität München 2014.

Lutz, K.: Accretion and stellar mass growth in low mass galaxies. Technische Universität München 2014.

Müller, F.: Development of a fiber based integral field unit and derivation of the instrumental response function of an existing integral field unit. Ludwig-Maximilians-Universität München 2014.

Plewa, P. M.: The Location of Sgr A*: Improving the Infrared Astrometric Frame for the Galactic Center by Correcting for Image Distortion. Ludwig-Maximilians-Universität München 2014.

Bachelorarbeiten

Bauer, L.: Alternatives to supermassive black holes in the center of several galaxies. Ludwig-Maximilians-Universität München 2014.

Bodensteiner, J.: High resolution spectroscopy of three evolved massive stars with mid-infrared circumstellar nebulae. Technische Universität München 2014.

Graeff, D.: Messung der Masse des Schwarzen Loches in LMC X-3. Technische Universität München 2014.

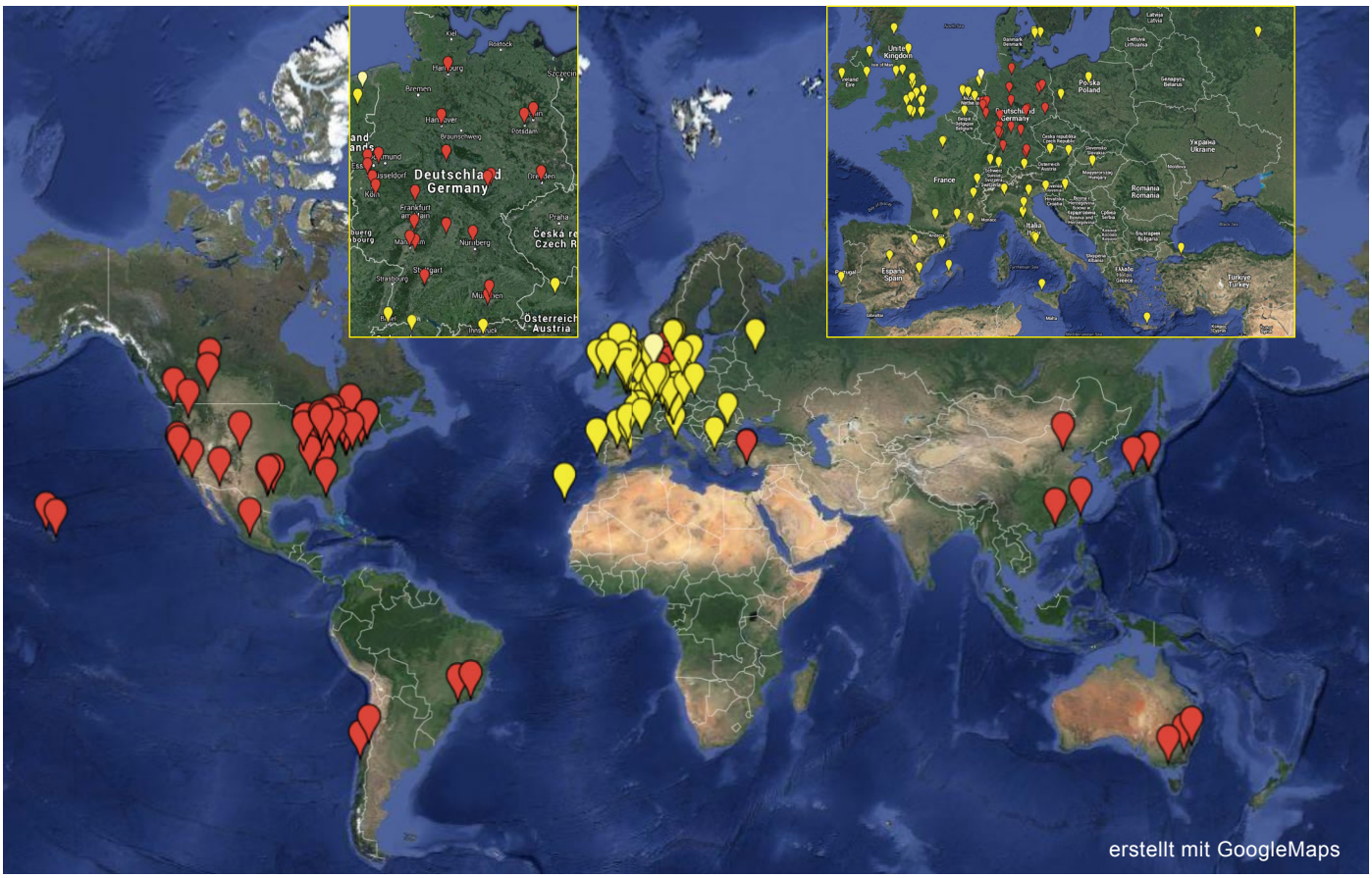
Huber, A.: Maser emission as a probe of the masses of black holes at the centers of galaxies. Ludwig-Maximilians-Universität München 2014.

Neri, G.: Charakterisierung eines galaktischen Röntgendoppelsternsystems mit hochauflösender optischer Spektroskopie. Technische Universität München 2014.

Prechtl, M.: Vermessung der Strahlhomogenität an der PANTER Röntgentestanlage. Technische Universität München 2014.

Kollaborationen / Wissenstransfer

Wissenschaftliche Kollaborationen nach Ländern



Australien

Australian National University, Canberra: Galaxienentstehung.

Monash University, Melbourne: Nukleare Astrophysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

Belgien

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

Brasilien

Universidad de Sao Paulo: Galaxienentstehung.

Observatorio Nacional, Rio de Janeiro: DES.

Centro Brasileiro de Pesquisas, Rio de Janeiro: DES.

Universidade Federal do Rio, Rio de Janeiro: DES.

Canada

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

NRC - Herzberg, Ottawa: Turbulence, superbubbles and First Hydrostatic Cores (FHSCs).

University of Alberta, Edmonton (Alberta): Turbulence.

University of Calgary: Turbulence.

University of Victoria, Victoria: Turbulence; superbubbles; First Hydrostatic Cores (FHSCs).

University of Waterloo, Waterloo: Herschel HIFI.

University of Western Ontario, London (Ontario): Turbulence.

Chile

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme.

China

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

University of Hongkong: Strahlungsmechanismen von Pulsaren vom Röntgen bis zum Gammabereich.

Dänemark

Dänemarks Technische Universität: ATHENA.

University of Copenhagen: First Hydrostatic Cores.

Deutschland

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

DLR-Köln Porz: Rosetta Lander (Philae).

European Southern Observatory (ESO), Garching: KMOS Multiobjekt-Spectrograph für VLT; GRAVITY; Galaxienentstehung; Nukleare Astrophysik; MICADO; ERIS; Black Hole Cam; Infrared Dark Clouds.

Fraunhofer Institut für Mikroelektronische Schaltungen und Systeme, Duisburg: Mikroelektronikentwicklungen; CAMEX; JFET-CMOS Prozessor; ATHENA; eROSITA.

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 fur Materialphysik im Weltraum, Köln: Glasübergänge.

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

Laser Zentrum Hannover: Development of advanced Filters for MICADO; coatings for GRAVITY; dichroics for ARGOS.

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

Maier-Leibnitz Laboratorium, Garching: eROSITA.

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

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

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

Max-Planck-Institut für Physik, Werner Heisenberg Institut, München: MPI Halbleiterlabor, Entwicklung von CCDs; Active Pixeldetektoren (APS); JFET-Elektronik für den Röntgenbereich; CAST; eROSITA.

Max-Planck-Institut für Radioastronomie, Bonn: ARGOS; Black Hole Cam; Molecular Clouds; Turbulence.

Physikalisch-Technische Bundesanstalt Berlin: eROSITA; SPICA-SAFARI; TES Bolometer SQUID-Ausleseschaltung.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Nukleare Astrophysik.

Thüringer Landessternwarte Tautenburg: GROND; Gamma-Ray Bursts.

Trans MIT, Gießen: Pulse tube cooler for GRAVITY.

Universität Bochum: LUCI.

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

Universität Düsseldorf: ERC Advanced Grant.

Universität Erlangen (ECAP): eROSITA; ATHENA.

Universität Hamburg: eROSITA; OPTIMA (Flarestars)

Universität Heidelberg: ATHENA; XFEL.

Universität Jena: Isolierte Neutronensterne; Nukleare Astrophysik.

Universität Köln: Galaktisches Zentrum; GRAVITY.

Universität Mannheim: ATHENA; XFEL.

Universität Würzburg: AGADE.

Frankreich

CEA, Saclay: INTEGRAL-Spektrometer SPI; Herschel-PACS; CAST; EUCLID; SPICA; SVOM; Molecular Clouds; ATHENA.

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

IAP Paris: Nukleare Astrophysik.

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

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

IPAG Grenoble: GRAVITY; Astrochemistry.

OAMP Marseille: Herschel-PACS.

Observatoire de Paris-Meudon: GRAVITY; MICADO.

Griechenland

University of Crete and Foundation for Research and Technology Hellas (FORTH), Heraklion: Ausbau und Betrieb der Skinakas Sternwarte; Untersuchung von windakkretierenden Röntgendoppelsternsystemen; Entwicklung und Einsatz des OPTIMA Photometers; optische Identifikation und Monitoring von Röntgen-AGN, Novae.

Großbritannien

Queen's University, Belfast: PanSTARRS.

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

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

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

SKA Organisation, Jodrell Bank Observatory, Manchester: First Hydrostatic Cores.

University of Cambridge: DES.

University College London, MSSL: High Energy Pulsars. EUCLID; DES.

University of Durham: KMOS, PanSTARRS.

University of Edinburgh: DES; KMOS; PanSTARRS.

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.

University Oxford: KMOS.

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

Irland

National University of Ireland, Galway: High Time Resolution Astronomy.

University College Dublin: Fermi/GBM.

Israel

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

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

Italien

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen.

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

INAF (Insituto Nationale di Astrofisica): ATHENA.

INAF Arcetri: ARGOS; LBT; ERIS; Infrared Dark Clouds; First Hydrostatic Cores, CR in Moelcular Clouds.

INAF Padua: Herschel-PACS; LBT; MICADO.

INAF Roma: LBT; Nukleare Astrophysik.

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

INFR Frascati: SIDDHARTA.

Istituto di Fisica dello Spazio Interplanetario (CNR), Frascati: Herschel-PACS.

OAA/LENS Firenze: Herschel-PACS.

Politecnico di Milano: rauscharme Elektronik; Röntgendetektorenentwicklung.

University Bologna: EUCLID.

Japan

IISAS, Sagamihara: SPICA-SAFARI.

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

University of Osaka: Astro-H.

Kroatien

Ministry of Science and Technology, Zagreb: CAST.

Mexiko

Centro de Radioastronomía y Astrofísica, Universidad Nacional Autónoma de México, Jiquilpan: Infrared Dark Clouds.

Niederlande

ESTEC, Noordwijk: XMM-Newton-TS-Spiegelkalibration; CCD Entwicklung; Radiation Performance Instrument;

INTEGRAL; EUCLID.

JIVE Dwingeloo: Black Hole Cam.

NOVA Leiden: MICADO.

Radboud University, Nijmegen: Black Hole Cam.

SRON Groningen: SPICA-SAFARI.

SRON, Utrecht: Chandra-LETG; TES für SPICA.

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

Österreich

Universität und TU Wien: Herschel-PACS; MICADO; ATHENA.

Universität Innsbruck: MICADO.

Universität Linz: MICADO.

Polen

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

University Zielona Gora: OPTIMA.

Portugal

SIM Lissabon und Porto: GRAVITY.

Russland

Staatliche Technische Universität Bauman, Moscow: Stark gekoppelte Systeme, Time-domain spectroscopy.

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

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

Schweden

University Lund/Observatory: OPTIMA.

Schweiz

CERN, Geneva: CAST.

ETH Zürich: ERIS.

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

Universität Basel: Nukleare Astrophysik.

University of Zurich: Infrared Dark Clouds.

Spanien

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

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

Instituto de Astrofisica de Canarias (IAC), Laguna: Herschel-PACS.

Instituto de Ciencias del Espacio, Bellaterra: DES.

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

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

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen.

Taiwan

National Central University, Chungli; PanSTARRS.

Türkei

Bogazici University, Istanbul: CAST.

Ukraine

Main National Observatory, Kiev: RoPACS.

Ungarn

Konkoly Observatory, Budapest: Herschel-PACS.

USA

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.

Johns Hopkins University: PanSTARRS.

Joint Astronomy Center, Hilo (Hawaii): Turbulence and superbubbles

Marshall Space Flight Center, Huntsville: Fermi Gamma-Ray Burst Monitor; XMM-Newton und

Chandra Beobachtungen von Neutronensternen, Pulsaren und Supernova-Überresten.

NOAO, Tucson: DES.

NASA/Ames Research Center, Mofett Field (CA): MHD shocks.

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

Ohio State University, Columbus: DES; LBT.

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

Pennsylvania State University: HETDEX; Swift.

Research Corporation, Tucson: LBT.

San Jose State University: MHD shocks.

Smithsonian Astrophysical Observatory, Cambridge: Chandra-LETGS; PanSTARRS;

Röntgendoppelsterne in M31.

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

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

SLAC, Stanford: CAMP; DES.

Texas A & M University, College Station: DES.

Texas State University, San Marcos: HETDEX.

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

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

University of California, Santa Cruz: DES.

University of Chicago: DES.

University of Colorado, Boulder (Co): Superbubbles.

University of Florida: Infrared Dark Clouds.

University of Illinois at Urbana-Champaign: DES.

University of Michigan: DES.

University of Pennsylvania: DES.

University of Pittsburgh: Galaxienentstehung.

University of Texas, Austin: Galaxienentstehung; HETDEX, Turbulence.

University of Toledo: Galaxienentstehung.

Multinationale Kollaborationen - Projekte

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

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

ATHENA - Advanced Telescope for High Energy Astrophysics: Dänemarks Technische Universität, Dänemark; Nikolaus Kopernikus Astronomical Center, Polen; Universität Wien, Österreich; 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.

Black Hole Cam ERC Synergy Grant: ESO Garching, MPI für Gavitationsphysik, MPI für Radioastronomie, Germany; Radboud University, JIVE Dwingeloo, The Netherlands.

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.

CDFS - The Chandra Deep Field South: ESO Garching, AIP, Germany; IAP Paris, France; Osservatorio Astronomico Trieste; Instituto Nazionale di Fisica Nucleare Trieste, Italy; Associated Universities Washington, Johns Hopkins University Baltimore, Space Telescope Science Institute Baltimore, USA; Center for Astrophysics Hefei, China.

Chandra: Marshall Space Flight Center Huntsville, Massachusetts Institute of Technology Cambridge, Smithsonian Astrophysical Observatory Cambridge, USA; Space Research Institute Utrecht, The Netherlands; Universität Hamburg, Germany.

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

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

ERIS - Enhanced Resolution Imager and Spectograph for the VLT: ESO, Germany; ETH Zürich, Switzerland; INAF Arcetri, Italy.

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.

FP7 Opticon JRA1 - Adaptive Optics: INAF Padova, INAF Arcetri, Italy; LAM Marseille, LAOG Grenoble; LESIA Paris, ONERA Paris, France; KIS Freiburg, MPIA Heidelberg, Germany; NOVA Leiden, The Netherlands; UKATC Edinburgh; University Durham, UK.

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

Herschel/PACS - Photodetector Array Camera and Spectrometer: CSL Liège, Katholieke Universiteit Leuven, Belgium; MPIA Heidelberg, Universität Jena, Germany; OAA/LENS Firenze, IFSI Roma, OAP Padova, Italy; IAC La Laguna, Spain; Universität und TU Wien, Austria; IGRAP Marseilles, CEA Saclay, France; Konkoly Observatory, Hungary

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

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

ISDC - INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University Southhampton, UK; Institut für Astronomie und Astrophysik Tübingen, Germany; Danish Space Research Institute Lyngby, 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.

KMOS - VLT multi-IFU near-infrared spectrograph: Universitätssternwarte München, Germany; University of Durham, ATC Edinburgh, University of Oxford, UK.

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

Lockman Hole, optical/NIR identifications: Astrophysikalisches Institut Potsdam, ESO Garching, Germany; Istituto di Radioastronomia del CNR Bologna, Italien; Associated Universities Washington, California Institute of Technology Pasadena, Institute for Astronomy Honolulu, Princeton University Observatory, Pennsylvania State University Park, USA; Subaru Telescope NAO Hilo, Japan.

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

MICADO - Multi-Adaptive Optics Imaging Camera for Deep Observations: LMU, USM, MPIA, IFA Göttingen, Germany; INAF Padova, Italy; Austrian Universities astronomy cooperation (Wien, Innsbruck, Linz), Austria; NOVA, Federation of Dutch University Astronomy Depts, The Netherlands; LESIA, 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, USA, Johns Hopkins Univ. Baltimore, MD, USA, Universities of Durham, Edinburgh, Belfast, UK.

SDSS - Sloan Digital Sky Survey: MPA Garching, MPIA Heidelberg, Germany; Univ. of Washington, Seattle, Fermi National Accelerator Laboratory, Batavia, University of Michigan, Ann Arbor, Carnegie Mellon University, Pittsburgh, Penn State University, University Park, Princeton University Observatory, Princeton, The Institute of Advanced Study Princeton, Space Telescope Science Institute, Baltimore, Johns Hopkins Univ. Baltimore, USA.

SPICA-SAFARI – SPace Infrared telescope for Cosmology and Astrophysics/SpicA FAR-infrared Instrument: University of Tokyo, ISAS/JAXA, Sagamihara, Nagoya University, Japan; SRON, Groningen, TU Delft, The Netherlands; RAL, Dittcot, University of Cardiff, Cambridge University, UK; University of Geneva, ETH Zürich, Switzerland; CEA Grenoble, CESR Toulouse, Sap-CEA Saclay, LAM, Marseille, France; University of Vienna, Austria; MPIA, Heidelberg, Physikalisch Technische Bundesanstalt, Berlin, Germany; CAB-INTA, Madrid, Spain; IFSI-INAF, Rome, Italy; KU Leuven, CSL Liège Belgium; University of Lethbridge, Canada; NUI Maynooth, Ireland.

Swift - Gamma-Ray Burst Mission: NASA/GSFC Greenbelt, Penn State University, USA; University of Leicester, Mullard Space Science Laboratory London, UK; Osservatorio Astronomico Brera, Italy.

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.

af inventions, Braunschweig: FPGA programmierung for eROSITA.

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

Albedo GmbH, Neubiberg; Soft- and hardware developments for PK-3 Plus; electronics for SDD readout.

Array Electronics, Egmating: DAQ development OPTIMA.

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

Bonerz engineering, Weiler-Simmerberg: printed circuit board development, electronics development.

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

Cryovac, Troisdorf: Cryostat for SPICA-SAFARI detector assembly tests.

ESL GmbH, Berlin: Manufacturing of circuit boards.

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

Guido Lex Werkzeugbau GmbH, Miesbach: parts for LUCI.

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

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.

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

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

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

IRIDIAN Spectral Technologies, Ottawa, Canada: Fitters for ERIS Spectrometer.

Korth Kristalle GmbH, Kiel: Lenses for ERIS Spectrometer.

Kugler GmbH, Salem: GRAVITY.

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

Luxel Corporation, USA: Filter for eROSITA.

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

MBM Maschinenbau, Mühldorf: eROSITA Container.

MENLO Systems, Martinsried, Germany: Metrology Laser for GRAVITY.

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

OHB System AG, München: Plasma-crystal experiments on the ISS; PKE; PK-3 Plus; PK-4; EUCLID design study.

Oxford Instruments, UK: Sub-Kelvin cooler for SPICA/SAFARI test facility.

PNSensor, München: Development and Manufacturing of semiconductor detectors; Mounting of semiconductor Systems; ARGOS.

RUAG Austria: Telescope-Cover-Mechanism for eROSITA.

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

TransMIT, Giessen, Germany: pulse tube cooler for GRAVITY.

WINLIGHT OPTICS, Pertuis, France: Beam analyzer optics for GRAVITY.

ZÜND Precision Optics, Diepoldsau, Switzerland: roof prisms for GRAVITY.

Aktivitäten im Wissenstransfer

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

A) Industriefinanzierte Forschungskooperationen

Dr. Johannes Heidenhain-Stiftung, Traunreut: Technologische Entwicklung auf dem Gebiet der Röntgenoptik und Röntgenspektroskopie; Entwicklung schneller Detektoren für Infrarot- und Röntgenstrahlung; Optical design and development for MICADO.

OHB-System GmbH, Bremen: Voruntersuchung für einen flexiblen S/W Simulator für Kleinsatelliten.

PNSensor, München, Aufbau und Test eines Röntgen-Gamma-Strahlen-Detektors.

B) Lizenzen

Baader Planetarium GmbH, Mammendorf: Reflexionsgitter Spectrograph für Lehrzwecke.

PNSensor, München, Detektortechnologie.

Baader Planetarium GmbH, Mammendorf: Baches Echelle Spectrograph.

C) Kooperationen mit Universitäten (vertraglich)

Detektorentwicklung:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung.

Universität Jena: Entwicklung und Fertigung von Röntgen-Zonenplatten.

D) Patente - Aktivitäten in 2014

Das MPE hielt Ende 2014 insgesamt 10 Patente.