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Impressum

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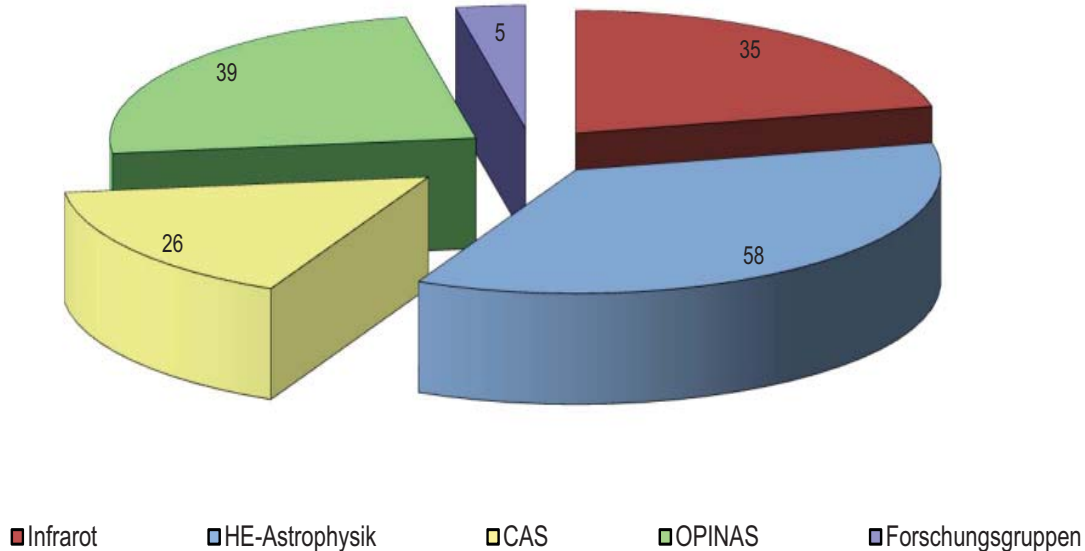
Pfuhl, O.: MERAC-Price, European Astronomical Society, Athens, Greece, July 2016.

Trümper, J.: Tycho Brahe Price, European Astronomical Society, Athens, Greece, July 2016.

van Dishoeck, E.: John Bahcall Lecture, NASA GSFC, Greenbelt, USA, March 2016.

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Gäste

Alexander, Prof. T. (02.-05.05.); Bisbas, Dr. T. (24.-28.10.); Boneberg, D. (20.-24.06.; 04.-08.07.); Bosman, A. (08.-12.08.); Bruderer, Dr. S. (08.-12.08.); Calderón, D. (13.-23.12.); Cuadra, Dr. J., (12.06.-13.07.); Kewley, Prof. L. (28.06.-01.07.); Lani, Dr. C. (04.-08.07.); McLane, J. (15.-26.08.); Miotello, A. (21.03.-03.04.); Netzer, Prof. H. (28.-29.07.); Renzini, Prof. A. (07.-25.11.); Saintonge, Prof.

A. (11.-21.04.); Sternberg, Prof. A. (07.-10.11.); Veilleux, Prof. S. (14.-21.07.)

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Behrendt, M. (D., Burkert); Heigl, S. (D., Burkert)

Forschungsgruppe Mohr

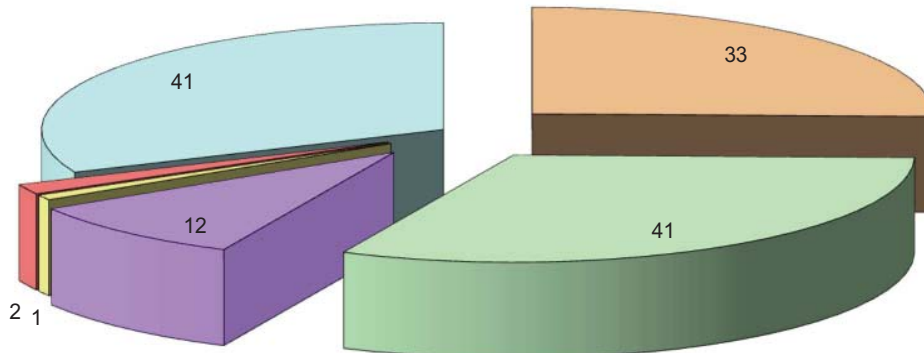
Klein, Dr. M.; Mohr, Prof. Dr. J.

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Grandis, S. (D., Mohr); Gupta, N. (D., Mohr)

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Ingenieurbereich, Werkstätten und Zentrale Bereiche



■ Elektronische Entwicklung
 ■ Mechanische Werkstatt
 ■ Elektronische Werkstatt und Haustechnik
 ■ Doktoranden (D) / Master (M)
 ■ Publikationsunterstützung
 ■ Bibliothek
 ■ Verwaltung

Elektronische Entwicklung

Plattner, Dr. M. (Leitung)

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Elektronische Werkstatt und Haustechnik

Reiss, P. (Leitung)

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Doktoranden (D) / Master (M)

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Mechanik und Testlabor

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Mechanische Werkstatt

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Auszubildende

Fischer, C.; Furchtsam, C. (seit 01.09.); Kohnert, P. (bis 31.08.); Lenzewski, S.; Liebhold, T.; Waldhör, F. (seit 01.09.); Warmuth, C.; Ziegemeier, J.

Doktoranden (D) / Master (M)

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Zentrale Bereiche

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Publikationsunterstützung

Hauner, R.

Bibliothek

Bartels, C. (Leitung)

Blank, E.

Verwaltung

Wanger, H. (Leitung VAD)

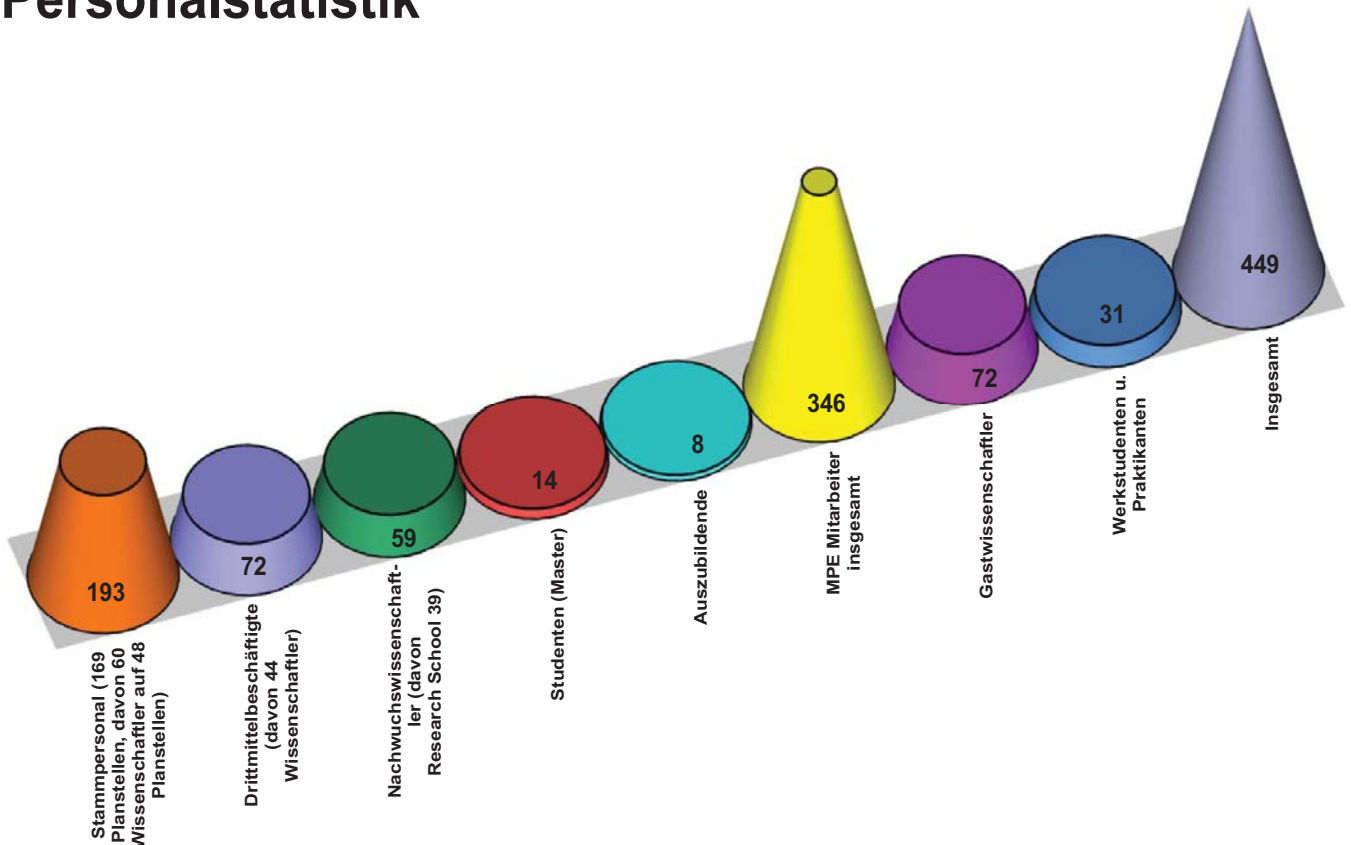
Sekretariat: Kliem, V. (bis 31.12.); Hesseler, G. (seit 01.09.)

Apold, G.; Arturo, A.; Bauernfeind, M.; Bauer, T.; Belscak, L. (seit 01.09.); Cziasto, U.; Eicher, C.; Ertl, M.; Fleischmann, S.; Goldbrunner, S.; Grasmann, M.; Grohmann, M.; Gschnell, H.-P.; Hausmann, S. (seit 01.02.); Hidasi, R. (seit 01.09.); Hingerl, P.; Jäkel, T.; Jirsch, Y.; Karing, W.; Keil, M.; Kestler, L.; Krapivina, A. (seit 01.12.); Kuhwald, E.; Maier, E. (seit 01.04.); Meindl, D.; Nagy, A.; Neun, A. (BR); Paschou, J.; Peischl, M.; Preisler, C.; Rochner, R.; Sandtner, P.; Scheiner, B.; Schmidt, A. (seit 01.12.); Schwaiger, S.; Seyfarth, B.; Steinle, R.; Stricker, C.; Thies, F.; Thies, L.; Uhland, J.; Vogt, J.P.

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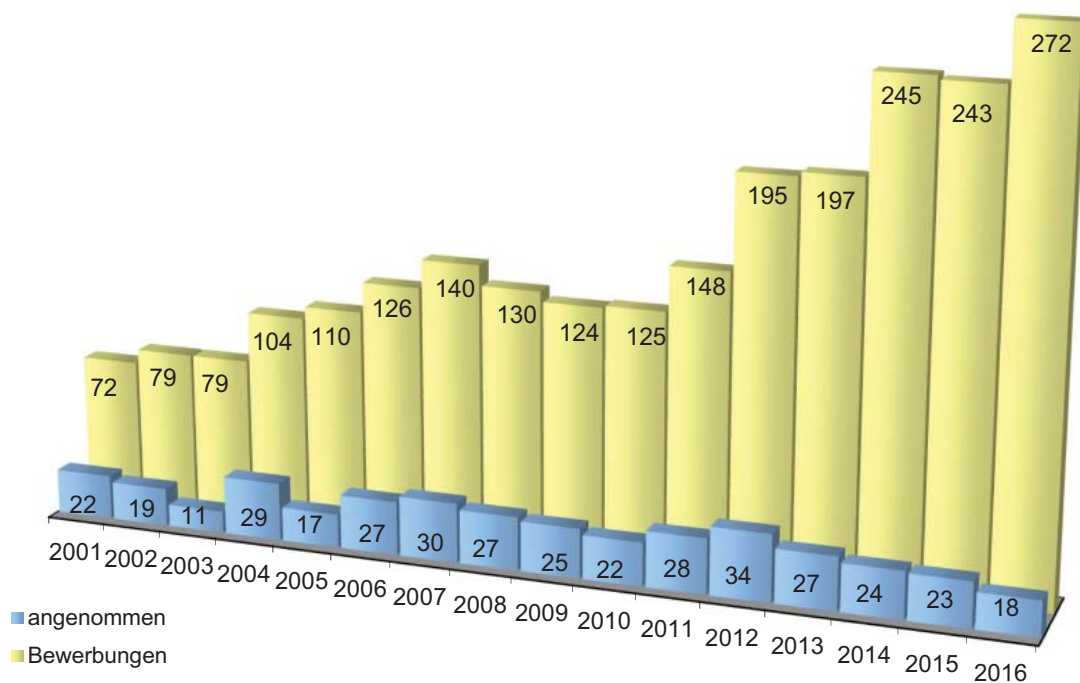
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Die IMPRS für Astrophysik ist eine Graduiertenschule an der Ludwig-Maximilians-Universität (LMU) München. Sie ist ein gemeinsames Projekt der beiden Max-Planck-Institute MPE und MPA (Max-Planck-Institut für Astrophysik) sowie der Sternwarte der LMU München und der Europäischen Südsternwarte ESO. Im akademischen Jahr 2016 nahmen insgesamt 95 Studenten an dem Programm teil, davon 31 am MPE. Im Jahr 2016 haben sich 272 Stu-

denten aus insgesamt 48 Ländern für das Studienjahr 2017 beworben. 18 Studenten wurden bisher angenommen, davon 9 am MPE (Stand Mai 2017).

Aus den lokalen Universitäten kommen in der Regel übers Jahr weitere Doktoranden zum IMPRS Programm dazu, sodass man auf eine durchschnittliche Teilnehmerzahl von 26 Doktoranden pro Jahr kommt.

IMPRS Bewerbungen seit 2001



Jährliche Bewerbungen für das IMPRS Programm in Garching. Seit dem Start haben sich insgesamt 2389 Studenten dafür beworben, 383 davon wurden angenommen.

Öffentlichkeitsarbeit

Das MPE engagierte sich 2016 durch folgende Aktivitäten in der Öffentlichkeitsarbeit: 25 populär-wissenschaftliche Vorträge durch Wissenschaftler, 12 Pressemitteilungen über wissenschaftliche Ergebnisse, 7 allgemeine Nachrichten (wissenschaftlich, Preise, Auszeichnungen), 22 Institutsführungen (meist naturwissenschaftlich orientierte Schulklassen). Am MPE wurden 13 Schüler- (1 - 2 Wochen) und 8 Hochschulpraktikanten (4 - 8 Wochen) betreut.

Am Girl's Day im März informierten sich 40 Mädchen über das Institut. Weitere Informationen zur Öffentlichkeitsarbeit sind unter:

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

zu finden.

Projekt-Gruppen

(Projektleiter unterstrichen)

Infrarot- und Submillimeter-Astronomie

Stellvertreter des Gruppendirektors:

Lutz, Tacconi.

ERIS

Ric Davies, Eisenhauer, Feuchtgruber, George, Gräff, Hartl, Plattner, Schubert, Sturm.

GRAVITY

Deen, Eisenhauer, Genzel, Gillessen, Haug, Haußmann, Kellner, Lippa, Ott, Pfuhl, Sturm, Waisberg, Wieprecht, Wiezorreck, Yazici, Zanker-Smith.

Herschel-PACS

Berta, Contursi, Doublie Pritchard, de Jong, Feuchtgruber, Gracia Carpio, Kleiser, Lutz, T. Müller, Osterhage, Sturm.

LBT Argos

Barl, Ric Davies, M. Deysenroth, Gemperlein, Orban de Xivry, Rabien, Rosensteiner, Ziegleder.

LBT LUCI

Contursi, Eibl, Eisenhauer, Gemperlein, Honsberg, Rabien, E. Wuyts.

MICADO

Ric Davies, Hartl, Schubert, Sturm.

Galaktisches Zentrum

Dexter, Eisenhauer, Genzel, George, Gillessen, Habibi, Ott, Pfuhl, Plewa, Sicheneder, von Fellenberg, Waisberg.

Galaxienkerne

Burtscher, Contursi, Ric Davies, Genzel, Herrera-Camus, Janssen, Lin, Lutz, Orban de Xivry, Schrubba, Shimizu, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung

Belli, Berta, Rebecca Davies, Förster Schreiber, Genzel, Lang, Lutz, Nelson, Sturm, Tacconi, Tadaki, Übler, Wisniewski, E. Wuyts.

Sternentstehung

Bisbas, Cazzoletti, Facchini, Schrubba, van Dishoeck.

Theorie

Dexter, Bauböck, Jimenes Rosales, Sicheneder, Waisberg.

Hochenergie-Astrophysik

ATHENA/Spiegel:

Budau, Burwitz, Hartner, Menz, Passlack.

ATHENA/WFI:

Andritschke, Bähr, Behrens, Bergbauer, Bianchi, Bornemann, Eder, Emberger, Eraerds, Fürmetz, Haberl, Hälker, Hauser, Kink, Koch, Lederhuber, Mican, Meidinger, Nandra, S. Ott, Pietschner, Plattner, A. Rau, Schubert, S. Müller, Müller-Seidlit, Reiffers, Strecker, Treberspurg, Tüchler.

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, Schuppe, Schreib, Schrey, Soller, Yaroshenko.

ROSAT

Boller, Freyberg, Haberl, Trümper.

Swift

Greiner, Schady.

XMM-Newton

Boller, Dennerl, Freyberg, Haberl, Meidinger, Trümper.

Fermi

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

GROND

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

INTEGRAL

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

MXT-SVOM

Burwitz, Meidinger, Nandra, A. Rau.

OPTIMA

A. Rau, Schrey, Steinle.

4MOST

Boller, Dwelly, Merloni.

Aktive Galaxien

Boller, Georgakakis, Merloni, Nandra, Salvato.

Clusters of Galaxies

Clerc, Sanders.

Optische und Interpretative Astronomie

DES

Bender, Saglia.

EUCLID

Bender, Fabricius, Galametz, Garcia Carpio, Gillhuber, Goldenbogen, Grupp, Hartung, Kellermann, Koppenhöfer, Penka, Piemonte, Raison, Saglia, Wetzstein, Wimmer.

KMOS

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

MICADO

Bender, Fabricius, Saglia, Thomas.

PanSTARRS

Bender, Farrow, Hopp, Saglia.

Galaxy Dynamics

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

Large Scale Structure

Bender, Farrow, Montesano, Saglia, Sanchez.

Stellare Populationen und Galaxienentstehung

Bender, Hopp, Saglia.

Zentrum für astrochemische Studien

Beobachtungen

Alves, Feng, Goto, P. Maier, T. Müller, Pineda, Riaz, Schmiedeke.

Theorie

Choudhury, Hocuk, Ivlev, Sipliä, Szűcs, Thi, Vasyunin, Zhao.

Labor

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

Lehrveranstaltungen / Seminare

IMPRS für Astrophysik (2016), Garching

Becker

Doktorandenseminar über aktuelle Themen aus der Astrophysik (WS 15/16, SS 16, WS 16/17)

Genzel

IMPRS Advanced Course: "Galaxy evolution from the galaxies' perspective: from interstellar gas, to stars, to black holes and back" (WS 15/16)

Gerhard

Galactic Dynamics and Galaxy Evolution (WS 15/16)

LMU München

Becker

Endstadien der Sternentwicklung (WS 15/16)

Bender

Astronomisches Kolloquium (WS 15/16, SS 16, WS 16/17)

Astrophysikalisches Grundpraktikum (WS 15/16, SS 16, WS 16/17)

Forschungsprojekt Masterarbeit, Anleitung zum wissenschaftlichen Arbeiten (WS 15/16, SS 16, WS 16/17)

Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert, "Tools in modern astrophysics" (WS 15/16, SS 16, WS 16/17)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert (WS 15/16, SS 16, WS 16/17)

Astrophysikalisches Hauptseminar experimentell und beobachtungsorientiert, "Tools in modern astrophysics" (WS 15/16, SS 16, WS 16/17)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar experimentell und beobachtungsorientiert (WS 15/16, SS 16, WS 16/17)

Projektseminar mit begleitendem Kolloquium "Extragalactic group seminar" (WS 15/16, SS 16, WS 16/17)

Projektseminar mit begleitendem Kolloquium "Gravitational Lensing" (WS 15/16, SS 16, WS 16/17)

Projektseminar mit begleitenden Kolloquium "Galaxies" (WS 15/16, SS 16, WS 16/17)

Projektseminar mit begleitenden Kolloquium aus dem Bereich experimenteller Arbeiten und Instrumentenentwicklung in der Astronomie (WS 15/16, SS 16, WS 16/17)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich experimenteller Arbeiten, Anleitung zum Wissenschaftlichen Arbeiten (WS 15/16, SS 16, WS 16/17)

Gerhard

Projektseminar mit begleitendem Kolloquium "Stellar Dynamics" (SS 16, WS 16/17)

Galactic Dynamics and Galaxy Evolution (WS 15/16)

Technische Universität München

Diehl

Astrophysics Seminar "Nuclei in the COSMOS" (WS 15/16, SS 16, WS 16/17)

Eisenhauer

Einführung in die Astrophysik (WS 15/16, 16/17)

High Angular Resolution Astronomy: Telescopes, Adaptive Optics, Interferometry, and more (SS 16)

Astronomical Institute of the Charles University, Prag, Tschechien

Dexter

The Galactic Center (WS 15/16)

Goethe-Universität Frankfurt

Boller

The Physics of the Solar System (WS 15/16)

Radiation and Matter (WS 15/16)

Strahlung und Materie; Astronomische Koordinatensysteme (WS 15/16)

University of Sao Paolo

Diehl

Nuclear Astrophysics (WS 15/16)

University of Tokyo

Diehl

Nuclear Astrophysics (SS 16)

Organisation von wissenschaftlichen Seminaren / Konferenzen

Astrochemistry with ALMA Cycle 4, Bordeaux, France, 12.01.-13.01.2016, Organisation: P. Caselli, A. Dutrey, D. Semenov, V. Wakelam.

Athena Wide Field Imager Proto-Consortium Meeting, Garching, 02.03.-04.03.2016, Organisation: A. Rau, N. Meidinger, M. Plattner, K. Nandra.

Small Bodies Near and Far, IAA, Granada, Spain, 13.04.-15.04.2016, Organisation: T.G. Müller, R. Duffard.

Follow-up of Wide-area X-ray Surveys, Ringberg Castle, 25.04.-27.04.2016, Organisation: A. Merloni, A. Finoguenov, M. Salvato.

The Cold Universe, Santa Barbara, CA, USA, 25.04.-15.07.2016, Organisation: P. Caselli, A. Ferrara, M. Ouchi, R. Schneider, J.C. Tan.

Unravelling Galaxies: Where Do the Stars Form? Frauenthemsee, Germany, 13.06.-15.06.2016, Organisation: D.J. Wilman, M. Fossati, G. Rudnick.

32nd Annual Conference of the IAP - Cosmic Dawn of the Galaxy Formation: Linking observations and theory with new-generation spectral models over cosmic time, Paris, France, 20.06.-24.06.2016, Organisation: A. Bressan, J. Brinchmann, V. Bromm, S. Charlot, F. Combes, G. Ferland, N.M. Förster Schreiber, C. Leitherer, R. Maiolino, M. Pettini, A. Shapley, R. Somerville, D.P. Stark, M. Volonteri.

Active Galactic Nuclei: What's in a Name? Garching, 27.06.-01.07.2016, Organisation: P. Padovani, E. Hatziminaoglou, V. Mainieri, M. Salvato.

Discs in Galaxies, 2016 Munich Joint Conference, Garching, Germany, 11.07.-15.07.2016, Organisation: A. Burkert, F. Combes, M. Dickinson, R. Ellis, B. Elmegreen, E. Emsellem, A. Helmi, L. Hernquist, G. Kauffmann, H.W. Rix, L. Tacconi.

Crossing the Rubicon: The Fate of Gas Flows in Galaxies, Santacangelo di Romagna, Italy, 05.09.-09.09.2016, Organisation: M. Brusa, F. Fraternali, J. Binnery, G. Chartas, J.X. Prochaska, A. Saintonge, R. Sancisi, D. Sijacki, L. Tacconi, E. Treister, and J. van Gorkom.

ESO-Athena Synergy Workshop, Garching, 14.09.-16.09.2016, Organisation: P. Padovani, F. Combes, M. Díaz-Trigo, S. Etori, E. Hatziminaoglou, P. Jonker, M. Salvato, S. Viti.

Interstellar Shocks: Models, Observations, and Experiments, Torun, Poland, 14.09.-16.09.2016, Organisation: S. Cabrit, P. Caselli, A. Ciardi, E. van Dishoeck, H. Fraser, M. Gerin, V. Guillet, A. Gusdorf, M. Hanasz, A. Karska, M. Kaufman, L. Kristensen, A. Marcowith, D. Neufeld, L. Podio.

Workshop on Laboratory Astrophysics: Interstellar Gas, Dust and Ice, Ringberg Castle, Germany, 18.09.-20.09.2016, Organisation: P. Caselli, T. Giesen, C. Jaeger, H. Kreckel, H. Mutschke, S. Schlemmer, R. Rouille.

The Changing Face of Galaxies: Uncovering Transformational Physics, Hobart, Tasmania, Australia, 19.09.-23.09.2016, Organisation: S. Croom, J. Bland-Hawthorn, K. Bundy, S. Ellison, N.M. Förster Schreiber, R. Gonzalez-Delgado, M. Haynes, P. Hopkins, L. Kewley, T. Naab, C. Power, A. Saintonge, S. Shabala, R. Somerville.

Fractionation of Isotopologues in Space: From the Solar System to Galaxies, Florence, Italy, 10.10.-13.10.2016, Organisation: M. Bertran, F. Fontani, E. Bergin, D. Bockelée-Morvan, P. Caselli, C. Codella, S. Martin, T. Pillai, S. Schlemmer, L. Testi.

In Situ View of Galaxy Formation, Schloss Ringberg, Ringberg, Germany, 30.10.-05.11.2016, Organisation: N.M. Förster Schreiber, L.J. Tacconi, R. Bower, F. Combes, R. Ellis, R. Genzel, L. Kewley, T. Kodama, S. Lilly, D. Lutz, T. Naab, A. Renzini, R. Teyssier.

Nuclear Astrophysics in Germany, Darmstadt, Darmstadtium Convention Center, 15.11.-16.11.2016, Organisation: R. Diehl, R. Reifarth, C. Chiappini, N. Christlieb, G. Martinez Pinedo.

Small Bodies Near and Far, Nördlingen, Germany, 22.11.2016, Organisation: T.G. Müller, S. Hölzl.

The Hydride Toolbox, Paris, 12.12.2016, Organisation: Y. Aikawa, E. Bergin, J. Black, P. Caselli, M. Gerin, J. Goicoechea, E. Gonzalez-Alfonso, D. Li, X. Michaut, D. Neufeld, K. Öberg, E. van Dishoeck.

Publikationen

Hier präsentieren wir eine tabularische und graphische Zusammenfassung unserer Veröffentlichungen aus 2016. Die Veröffentlichungen werden nach wissenschaftlicher

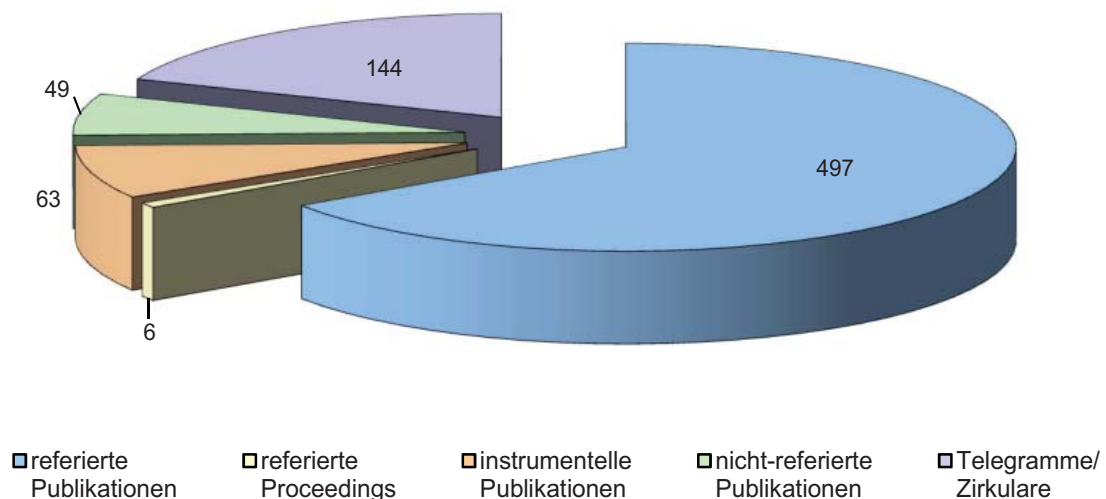
Arbeitsgruppe und Publikationstyp gezählt. Die Gesamtliste unserer Publikationen aus den verschiedenen Kategorien ist nachfolgend aufgeführt.

Summe der MPE Publikationen in 2016

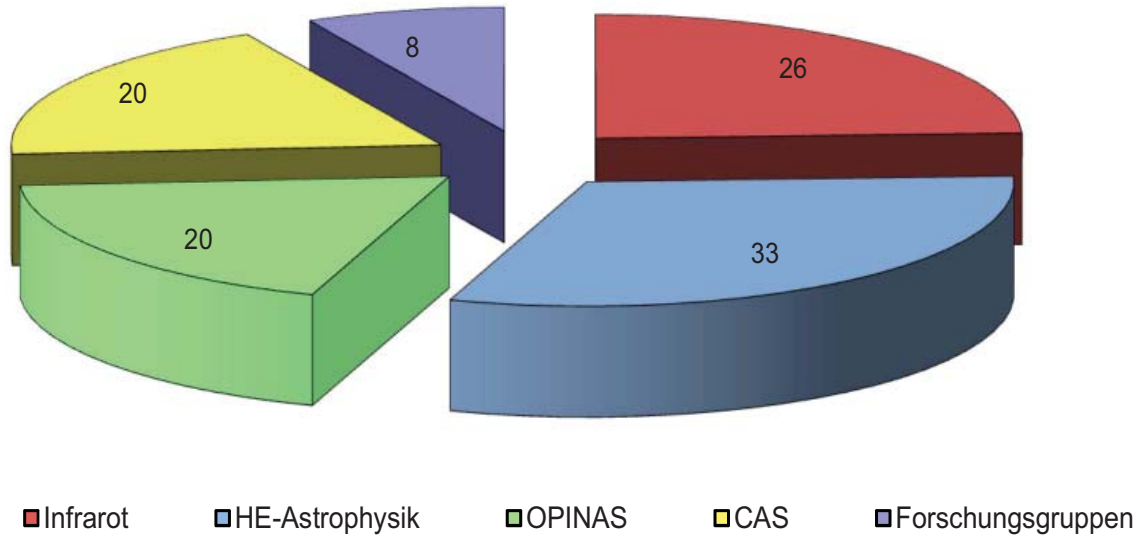
Wissenschaftl. Arbeitsgruppe	referierte Publikationen	referierte Proceedings	Instrument. Publikationen	nicht-referierte Publikationen	Telegramme/ Zirkulare	Vorträge	Poster
IR	26 (108)	0 (00)	4 (20)	2 (14)	4 (16)	81 (113)	9
HE Astrophysik	33 (172)	0 (02)	10 (27)	6 (14)	53 (117)	60 (105)	7
OPINAS	20 (105)	0 (04)	8 (16)	3 (08)	0 (04)	10 (20)	3
CAS	20 (79)	0 (00)	0 (00)	3 (11)	3 (06)	32 (73)	9
Res. Grp	8 (33)	0 (00)	0 (00)	0 (02)	0 (01)	2 (02)	1
Summe	107 (497)	0 (06)	22 (63)	14 (49)	60 (144)	185 (313)	29

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.

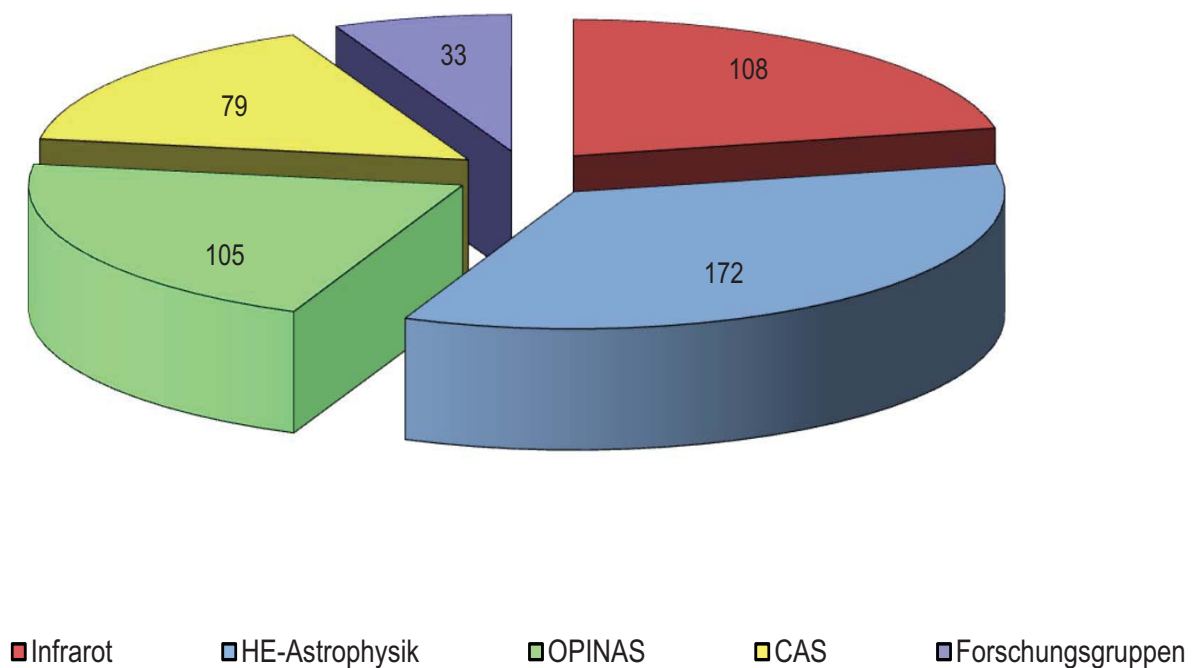
MPE Publikationen 2016 (nach Typ)

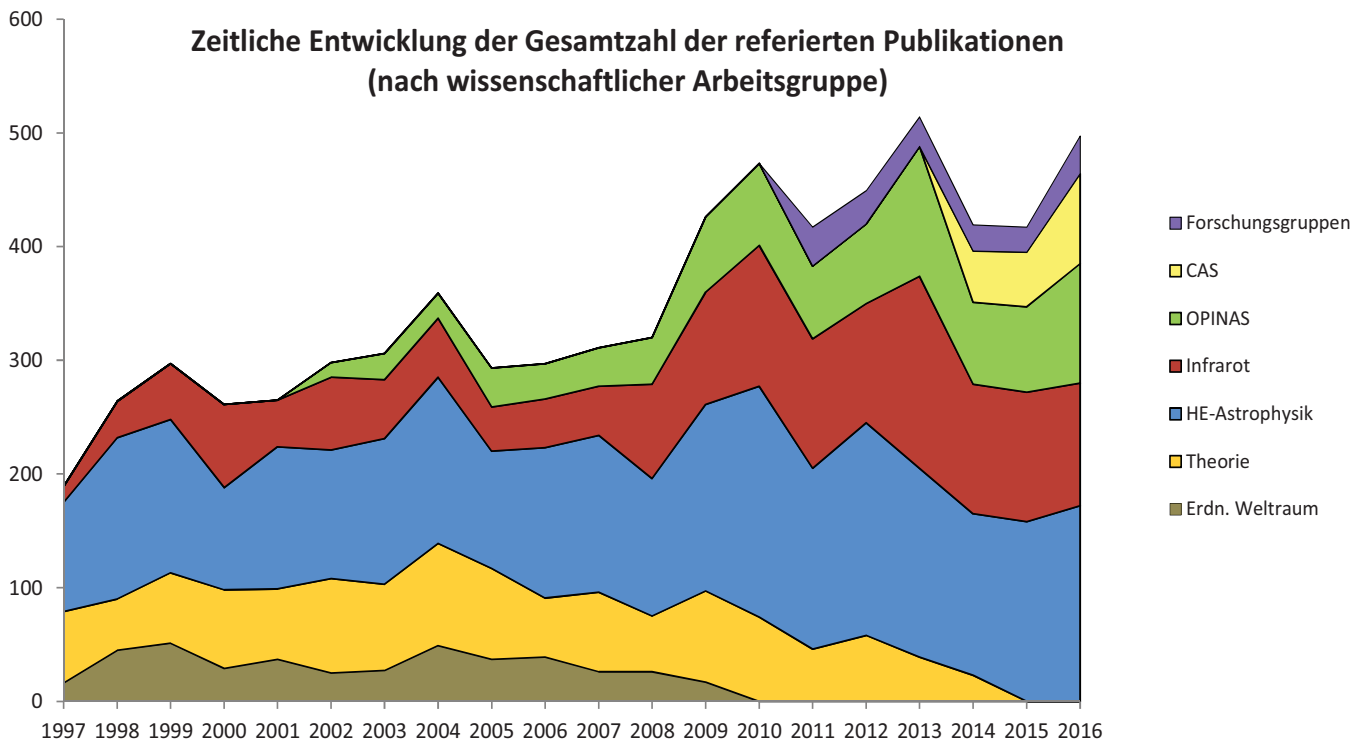


Referierte Publikationen mit MPE Erstautor in 2016 (nach wissenschaftlicher Arbeitsgruppe)



Gesamtzahl der referierten MPE Publikationen in 2016 (nach wissenschaftlicher Arbeitsgruppe)





Referierte Publikationen

- Abbott, P.B., R. Abbott, T.D. Abbott, ..., J. Greiner, A. von Kienlin, K. Toelge, H.-F. Yu, ..., A. Rau, A. von Kienlin, X. Zhang, ..., T.-W. Chen, et al.: Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914. *Ap. J.* 826, L13 (2016).
- Abbott, B.P., R. Abbott, T.D. Abbott, ..., J. Greiner, A. von Kienlin, K. Toelge, H.-F. Yu, ..., A. Rau, A. von Kienlin, X. Zhang, ..., T.-W. Chen, et al.: "Supplement: "Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914" (ApJL, 826, L13)". *Ap. J. Supp. Ser.* 225, 26 (2016).
- Abbott, T., F.B. Abdalla, S. Allam, ..., J. Weller, et al.: Cosmology from cosmic shear with Dark Energy Survey Science Verification data. *Physical Review D* 94, 022001 (2016).
- Acero, F., M. Ackermann, M. Ajello, ..., A.W. Strong, et al.: Development of the Model of Galactic Interstellar Emission for Standard Point-source Analysis of Fermi Large Area Telescope Data. *Ap. J. Supp. Ser.* 223, 26 (2016).
- Acero, F., M. Ackermann, M. Ajello, ..., A.W. Strong, et al.: The First Fermi LAT Supernova Remnant Catalog. *Ap. J. Supp. Ser.* 224, 8 (2016).
- Achitouv, I., M. Baldi, E. Puchwein and J. Weller: Imprint of $f(R)$ gravity on nonlinear structure formation. *Physical Review D*, 93(10): 103522, pp. 1-16 (2016).
- Ackermann, M., M. Ajello, B. Anderson, ..., A. von Kienlin, et al.: Fermi LAT Stacking Analysis of Swift Localized GRBs. *Ap. J.* 822, 68 (2016).
- Ackermann, M., M. Ajello, H. An, ..., A. Rau, ..., P. Schady, et al.: Contemporaneous Broadband Observations of Three High-redshift BL LAC Objects. *Ap. J.* 820, 72 (2016).
- Adami, C., E. Pompei, T. Sadibekova, N. Clerc, A. Iovino, S.L. McGee, L. Guennou, M. Birkinshaw, C. Horellou, S. Maurogordato, F. Pacaud, M. Pierre, B. Poggianti and J. Willis: The XXL Survey. VIII. MUSE characterisation of intracluster light in a $z \sim 0.53$ cluster of galaxies. *Astron. Astrophys.* 592, A7 (2016).
- Agarwal, B., B. Smith, S. Glover, P. Natarajan and S. Khochfar: New constraints on direct collapse black hole formation in the early Universe. *Mon. Not. R. Astron. Soc.*, 459(4), 4209-4217 (2016).
- Ahoranta, J., A. Finoguenov, C. Pinto, J. Sanders, J. Kaastra, J. de Plaa and A. Fabian: Observations of asymmetric velocity fields and gas cooling in the NGC 4636 galaxy group X-ray halo. *Astron. Astrophys.* 592, A145 (2016).
- Ajello, M., G. Ghisellini, V.S. Paliya, D. Kocevski, G. Tagliaferri, G. Madejski, A. Rau, P. Schady, J. Greiner, F. Massaro, M. Balokovic, R. Bühler, M. Giomi, L. Marcotulli, F. D'Ammando, D. Stern, S.E. Boggs, F.E. Christensen, W.W. Craig, C.J. Hailey, F.A. Harrison and W.W. Zhang: NuSTAR, Swift, and GROND Observations of the Flaring MeV Blazar PMN J0641-0320. *Ap. J.* 826, 76 (2016).
- Alberts, S., A. Pope, M. Brodwin, S.M. Chung, R. Cybulski, A. Dey, P.R.M. Eisenhardt, A. Galametz, A.H. Gonzalez, B.T. Jannuzi, S.A. Stanford, G.F. Snyder, D. Stern and G.R. Zeimann: Star Formation and AGN Activity in Galaxy Clusters from $z=1-2$: a Multi-Wavelength Analysis Featuring Herschel/PACS. *Ap. J.* 825, 72 (2016).
- Allen, R.C., J.-C. Zhang, L.M. Kistler, H.E. Spence, R.-L. Lin, B. Klecker, M.W. Dunlop, M. André and V.K. Jordanova: A statistical study of EMIC waves observed by Cluster: 2. Associated plasma conditions. *J. Geophys. Res. (Space Phys.)* 121, 6458-6479 (2016).
- Allevato, V., F. Civano, A. Finoguenov, S. Marchesi, F. Shankar, G. Zamorani, G. Hasinger, M. Salvato, T. Miyaji, R. Gilli, N. Cappelluti, M. Brusa, H. Suh, G. Lanzuisi, B. Trakhtenbrot, R. Griffiths, C. Vignali, K. Schawinski and A. Karim: The Chandra COSMOS Legacy Survey: Clustering of X-Ray-selected AGNs at $2.9 \leq z \leq 5.5$ Using Photometric Redshift Probability Distribution Functions. *Ap. J.* 832, 70 (2016).
- Álvarez-Márquez, J., D. Burgarella, S. Heinis, V. Buat, B. LoFaro, M. Béthermin, C.E. López-Fortín, A. Cooray, D. Farrah, P. Hurley, E. Ibar, O. Ilbert, A.M. Koekemoer, B.C. Lemaux, I. Pérez-Fournon, G. Rodighiero, M. Salvato, D. Scott, Y. Taniguchi, J.D. Vieira and L. Wang: Dust properties of Lyman-break galaxies at $z \sim 3$. *Astron. Astrophys.* 587, A122 (2016).
- Aniyan, S., K.C. Freeman, O.E. Gerhard, M. Arnaboldi and C. Flynn: The influence of a kinematically cold young component on disc-halo decompositions in spiral galaxies: insights from solar neighbourhood K-giants. *Mon. Not. R. Astron. Soc.* 456, 1484-1494 (2016).
- Annis, J., M. Soares-Santos, E. Berger, ..., J.J. Mohr, ..., J. Weller, et al.: A Dark Energy Camera Search for Missing Supergiants in the LMC after the Advanced LIGO Gravitational-wave Event GW150914. *Ap. J. Lett.* 823, L34 (2016).
- Ansdell, M., J.P. Williams, N. van der Marel, J.M. Carpenter, G. Guidi, M. Hogerheijde, G.S. Mathews, C.F. Manara, A. Miotello, A. Natta, I. Oliveira, M. Tazzari, L. Testi, E.F. van Dishoeck and S.E. van Terwisga: ALMA Survey of Lupus Protoplanetary Disks. I. Dust and Gas Masses. *Ap. J.* 828, 46 (2016).
- Antonellini, S., I. Kamp, F. Lahuis, P. Voitke, W.-F. Thi, R. Meijerink, G. Aresu, M. Spaans, M. Güdel and A. Liebhart: Mid-IR spectra of pre-main sequence Herbig stars: An explanation for the non-detections of water lines. *Astron. Astrophys.* 585, A61 (2016).
- Balbinot, E., B. Yanny, T.S. Li, ..., D. Gruen, ... and The DES Collaboration. The Phoenix stream: a cold stream in the southern hemisphere. *Ap. J.* 820(1): 58, pp. 1-8 (2016).
- Bañados, E., B.P. Venemans, R. Decarli, E.P. Farina, C. Mazzucchelli, F. Walter, X. Fan, D. Stern, E. Schlafly, K.C.

- Chambers, H.-W. Rix, L. Jiang, I. McGreer, R. Simcoe, F. Wang, J. Yang, E. Morganson, G. De Rosa, J. Greiner, M. Balokovi, W.S. Burgett, T. Cooper, P.W. Draper, H. Flewelling, K.W. Hodapp, H.D. Jun, N. Kaiser, R.-P. Kudritzki, E.A. Magnier, N. Metcalfe, D. Miller, J.-T. Schindler, J.L. Tonry, R.J. Wainscoat, C. Waters and Q. Yang: The Pan-STARRS1 Distant $z > 5.6$ Quasar Survey: More than 100 Quasars within the First Gyr of the Universe. *Ap. J. Supp. Ser.* 227, 11 (2016).
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Poster

- Barnes, A. et al.: Star formation rates on global and cloud scales within the Galactic Centre, The Multi-Messenger Astrophysics of the Galactic Centre, IAU Symposium No. 322, Cairns, Australia, July 2016.
- Behrendt, M. et al.: Origin of the giant clumps at high- z : the bottom-up scenario, ESO - Discs in Galaxies, Garching, Germany, July 2016.
- Cazzoletti, P. et al.: A possible explanation for the position of the dust ring around GG Tau A, Protoplanetary Discussions, Edinburgh, UK, March 2016.
- Cazzoletti, P. et al.: Vortices and spirals in the HD135344B transition disk: millimeter vs. scattered light, 9th IRAM millimeter interferometry school, Grenoble, France, September 2016.
- Chacón-Tanarro, A. et al.: Grain growth towards the pre-stellar core L1544, European Conference on Laboratory Astrophysics - Gas on the Rocks - ECLA 2016, Madrid, Spain, November 2016.
- Collmar, W.: MeV observations of relativistic jet sources, 11th INTEGRAL Conference: Gamma-Ray Astrophysics in Multiwavelength Perspective, Amsterdam, The Netherlands, October 2016.
- Del Moro, A. et al.: The challenge of the Compton-thick AGN identification, eROSITA/CAASTRO/4MOST workshop, Ringberg, Germany, April 2016.
- Facchini, S. et al.: External photoevaporation in sparse stellar clusters: the impact of dust growth, Protoplanetary discussions, Edinburgh, United Kingdom, March 2016.
- Giuliano, B.M. et al.: Optical Characterization of Interstellar Ice Analogues, European Conference on laboratory Astrophysics, ECLA 2016 - Gas on the Rocks, Madrid, Spain, November 2016.
- Hou, J. et al.: Covariance matrices for precision cosmology, Passo del Tonale, Tenth TRR33 Winter school, Passo del Tonale, Italy, December 2016.
- Lin, M.-Y. et al.: Nuclear stellar kinematics of hard X-ray selected AGNs with matched inactive galaxies, Active Galactic Nuclei: what's in a name?, ESO, Munich, Germany, June 2016.
- Lin, M.-Y. et al.: Stellar kinematics of Swift BAT AGNs with matched inactive galaxies, Hidden Monsters 2016, Dartmouth College, Dartmouth, USA, August 2016.
- Lippa, M. et al.: Spatially resolved molecular gas and stellar properties of massive SFGs at $z \sim 1$, Discs in Galaxies, Garching, Germany, July 2016.
- Lippa, M. et al.: The metrology system of the VLTI instrument GRAVITY, SPIE Conference - "Optical and Infrared Interferometry and Imaging V", Edinburgh, UK, June 2016.
- Lutz, D. et al.: The far-infrared emitting region in local galaxies and QSOs: Size and scaling relations, In situ view of galaxy formation, Schloss Ringberg, Germany, November 2016.
- Müller, T.G. et al.: Small bodies: near and far (SBNF), COSPAR Scientific Assembly 2016, Istanbul, Turkey, August 2016.
- Müller-Seidlitz, J. et al.: Spectroscopic performance of DEPFET active pixel sensor prototypes suitable for the high count rate ATHENA WFI detector, SPIE Astronomical Telescopes + Instrumentation, Edinburgh, United Kingdom, June 2016.
- Ott, S. et al.: Modeling of DEPFET based X-ray Detectors for Athena's Wide Field Imager, IEEE Nuclear Science Symposium, Strasbourg, France, November 2016.
- Perez-Villegas, A. et al.: Are the metal-poor stars in the Galactic bulge part of the inner stellar halo?, The Milky Way and its environment: gaining insights into the drivers of galaxy formation and evolution, Paris, France, September 2016.
- Perez-Villegas, A. et al.: Inner Stellar Halo in the Milky Way: Predicted Shape and Kinematics, Disc in Galaxies, Garching, Germany, July 2016.
- Sokolov, V. et al.: Multi-component physical conditions of a giant stellar nursery, European Week of Astronomy and Space Science 2016, Athens, Greece, July 2016.
- Sokolov, V. et al.: Unraveling complex kinematics of a giant stellar nursery, Science with APEX, Ringberg Castle, Germany, March 2016.
- Spezzano, S. et al.: Chemical differentiation in L1544, ECLA 2016, European Conference on Laboratory Astrophysics. Gas on the rocks, Madrid, Spain, November 2016.
- Strong, A. et al.: COMPTel Reloaded: New Initiatives in Heritage MeV Gamma-Ray Astronomy, Gamma 2016, Heidelberg, Germany, July 2016.
- Szücs, L. et al.: On the caveats of tracing molecular gas with CO emission, Star Formation 2016, Exeter, United Kingdom, August 2016.
- Übler, H. et al.: The Tully-Fisher relation at $0.6 < z < 2.7$ with KMOS^{3D}, Discs in Galaxies, 2016 Munich Joint Conference, Garching, Germany, July 2016.
- von Kienlin, A.: The Fourth Fermi GBM Gamma-Ray Burst Catalog: The First Eight Years, 8th Huntsville Gamma-Ray Burst Symposium, Huntsville, USA, October 2016.
- Yu, H.-F. et al.: An Exploration of Issues with GBM GRB Spectroscopy, The Eighth Huntsville Gamma-Ray Burst Symposium, Huntsville, AL, USA, October 2016.
- Zhao, B. et al.: Protostellar Disk Formation Enabled by Removal of Small Dust Grains, Star formation, magnetic fields, and diffuse matter in the galaxy, Madison, USA, May 2016.

Vorträge

- Alves, F.O.: A Magnetized Prestellar Core: Polarization and Kinematics, contributed talk, Science With the Atacama Pathfinder Experiment (APEX), Ringberg Castle, Germany, March 2016.
- Alves, F.O.: An ALMA view of B59: from collapsing cores to pre-Kuiper Belt structures, contributed talk, Star Formation in Different Environments, Quy Nhon, Vietnam, July 2016.
- Alves, F.O.: An ALMA view of B59: from embedded disks to pre-Kuiper Belt structures, contributed talk, The Early Phase of Star Formation, Ringberg Castle, Germany, June 2016.
- Alves, F.O.: From Planck to ALMA: a multi-scale view of magnetized environments, colloquium, Harvard-Smithsonian Center for Astrophysics, Cambridge, USA, March 2016.
- Alves, F.O.: Multi-wavelength polarimetry and kinematics in star forming regions: magnetic fields and kinematics, colloquium, RIKEN (Star and Planet Formation Laboratory), Tokyo, Japan, October 2016.
- Alves, F.O.: Polarization and chemistry in the early stages of star formation, invited talk, Workshop on Interstellar Matter 2016, Sapporo, Japan, October 2016.
- Barnes, A.: Star formation rates and efficiencies in the Galactic Centre, contributed talk, The University of Sydney; The 2016 Astronomical Society of Australia's: Annual Scientific Meeting, Sydney, Australia, July 2016.
- Behrendt, M.: Clusters of small clumps can explain the peculiar properties of giant clumps in high-redshift galaxies, invited talk, Institute for Computational Science - University of Zurich, Zurich, Switzerland, February 2016.
- Behrendt, M.: The origin of the giant clumps in high-z galaxies: The bottom-up scenario!, colloquium, Cosmology Seminar, Max-Planck-Institute for astrophysics, Garching, Germany, March 2016.
- Belli, S.: How did galaxies quench? Clues from absorption and emission lines in high-z quiescent galaxies, invited talk, In Situ View of Galaxy Formation, Ringberg, Germany, November 2016.
- Belli, S.: MOSFIRE spectroscopy of quiescent galaxies at high redshift, invited talk, Lorentz Center, Leiden, The Netherlands, August 2016.
- Bodendorf, C.: Optische Messtechnik beim Euclid Weltraumteleskop, invited talk, OPTOCRAFT Workshop 2016 Charakterisierung und Justage optischer Systeme mittels Shack-Hartmann Wellenfrontsensoren, Erlangen, Germany, November 15 2016.
- Boller, Th.: 4MOST Survey Strategy and Science Optimization, contributed talk, 4MOST All Hands Meeting, Heidelberg, Germany, September 2016.
- Boller, Th.: Anfang und Ende des Universums, public talk, Festvortrag zur 30-jährigen Charterfeier der Rotary Clubs Germering, Kloster Andechs, Germany, April 2016.
- Boller, Th.: Die Entwicklung des Universums, public talk, Lions Club Freising, Freising, Germany, April 2016.
- Boller, Th.: The Beginning and the End of the Universe, invited talk, 44th Annual Meeting of the European Society of Dermatological Research, Munich, Germany, September 2016.
- Boller, Th.: The second ROSAT X-ray all-sky survey, invited talk, Multifrequency Behaviour of High Energy Cosmic Sources, Frascati Workshop 2016, Palermo, Italy, May 2016.
- Boller, Th.: X-ray all-sky surveys: from 2RXS to eROSITA, invited talk, IWARA 2016 — 7th International Workshop on Astronomy and Relativistic Astrophysics, Gramado, Brazil, October 2016.
- Caselli, P.: The cold interstellar medium and star formation, invited talk, Annual meeting of the German Astronomical Society, Plenary Talk, Bochum, Germany, September 2016.
- Caselli, P.: Astrochemical diagnostics of star and planet formation, invited talk, Laboratory Astrophysics Division of the AAS: Bridging Laboratory & Astrophysics, San Diego, USA, June 2016.
- Caselli, P.: Astrochemistry and the first steps toward star and planet formation, colloquium, Munich Physics Colloquium, Ludwig-Maximilians-Universität München, Munich, Germany, January 2016.
- Caselli, P.: Astrochemistry and the first steps toward star and planet formation, colloquium, University of Hamburg, Hamburg, Germany, February 2016.
- Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, Department of Chemistry, University of Florida, Gainesville, USA, Gainesville, USA, November 2016.
- Caselli, P.: Astrochemistry at the dawn of star and planet formation, colloquium, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA, November 2016.
- Caselli, P.: Astrochemistry at the dawn of star and planet formation, contributed talk, Nanosystems Initiative in Munich - Molecular Origins of Life, Munich, Germany, September 2016.
- Caselli, P.: Astrochemistry in different environments, invited talk, Star Formation in Different Environments, Quy Nhon, Vietnam, July 2016.
- Caselli, P.: Astrochemistry in the earliest stages of star formation, invited talk, ECLA2016 - Gas on the Rocks, Madrid, Spain, November 2016.
- Caselli, P.: Astrochemistry with SOFIA, invited talk, SOFIA Community Tele-Talk Series, Pasadena, USA, June 2016.
- Caselli, P.: Chemistry at the dawn of star formation and links to our Solar System, colloquium, Max-Planck-Institute Sonnensystemforschung, Goettingen, Germany, February 2016.

- Caselli, P.: Chemistry at the dawn of star formation and links to our Solar System, colloquium, University of Maryland, College Park, USA, February 2016.
- Caselli, P.: D and ^{15}N fractionation in pre-stellar cores, contributed talk, Fractionation of isotopes in space: from the Solar System to galaxies, Florence, Italy, October 2016.
- Caselli, P.: Hydride Isotopologue, invited talk, The Hydride Toolbox, Paris, France, December 2016.
- Caselli, P.: The deuteration of interstellar molecules and links to our Solar System, invited talk, The first Italian workshop on astrochemistry: Astronomical Complex Organic Molecules in different environments, Florence, Italy, March 2016.
- Caselli, P.: The first steps toward star and planet formation: an astrochemical journey, colloquium, University College London, London, UK, February 2016.
- Caselli, P.: The importance of high resolution molecular spectroscopy in astrophysics, invited talk, The 24th International Conference on High Resolution Molecular Spectroscopy, Prague, Czech Republic, August 2016.
- Caselli, P.: Water in pre-stellar cores, invited talk, Water in the Universe: from Clouds to Oceans, Noordwijk, The Netherlands, April 2016.
- Cazzoletti, P.: The dust ring in the protoplanetary disk around the GG Tauri - a binary star, colloquium, Institute for Astronomy, University of Hawaii, Honolulu, USA, November 18, 2016.
- Chacon-Tanarro, A.: Search of grain growth towards the center of the pre-stellar core L1544, contributed talk, European Week of Astronomy and Space Science 2016, Athens, Greece, July 2016.
- Chacon-Tanarro, A.: Search of grain growth towards the center of the pre-stellar core L1544, contributed talk, European Week of Astronomy and Space Science 2016, Athens, Greece, July 2016.
- Collmar, W.: Monitoring the Sky at soft Gamma-ray Energies with CGRO/COMPTEL for nine Years, contributed talk, HAP Workshop: Monitoring the non-thermal Universe, Cochem, Germany, December 2016.
- Davies, R.L.: Separating Star Formation and AGN Activity in Galaxies, invited talk, In Situ View of Galaxy Formation, Schloss Ringberg, Germany, November 2016.
- Davies, R.L.: Separating Star Formation and AGN Activity in Galaxies, contributed talk, Astronomical Society of Australia, Sydney, Australia, July 2016.
- Davies, R.: ERIS: a workhorse diffraction limited imager & spectrograph, invited talk, VLT Adaptive Optics Community Days, Munich, Germany, September 2016.
- Davies, R.: How the role of environment in fuelling AGN depends on the host galaxy, contributed talk, Hidden Monsters: Obscured AGN and Connections to Galaxy Evolution, Dartmouth, USA, August 2016.
- Davies, R.: MICADO: First Light Imager for the E-ELT, contributed talk, Ground-based and Airborne Instrumentation for Astronomy VI, Edinburgh, UK, June 2016.
- Davies, R.: MICADO: First Light Imager for the E-ELT, contributed talk, Scientific and Instrumental Perspectives for the E-ELT, Bochum, Germany, September 2016.
- Del Moro, A.: Average hard X-ray spectral properties of the NuSTAR AGNs, contributed talk, Hidden Monsters - Obscured AGN and connections to galaxy evolution (Dartmouth College), Hanover, USA, August 2016.
- Del Moro, A.: Hard X-ray spectral properties of distant AGN in the NuSTAR surveys, contributed talk, AGN: What's in a name? (ESO-Garching), Garching, Germany, June 2016.
- Del Moro, A.: X-ray spectral analysis of NuSTAR AGN: Broad-band (2-40 keV) average spectral properties, contributed talk, NuSTAR science meeting (Caltech), Pasadena, California (USA), November 2016.
- Dennerl, K.: An empirical method for improving the XMM-Newton/EPIC-pn RMF and ARF, contributed talk, 11th International Astronomical Consortium for High Energy Calibration (IACHEC) Meeting, Pune, India, February 2016.
- Dennerl, K.: Determination of the eROSITA PSF, invited talk, IX. International Workshop on Astronomical X-Ray Optics 2016, Prague, Czech Republic, December 2016.
- Dennerl, K.: eROSITA Calibration, contributed talk, eROSITA Consortium Meeting, Tübingen, Germany, September 2016.
- Dexter, J.: Event Horizon Scale Emission Models of Sgr A* and M87, invited talk, Simulations and Modelling of Relativistic MHD Accretion Discs, Oxford, UK, July 2016.
- Dexter, J.: Event horizon scale polarization around Sgr A* and M87, contributed talk, Event Horizon Telescope 2016, Cambridge, USA, November 2016.
- Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, Astronomical Institute of the Charles University, Prague, Czech Republic, November 2016.
- Dexter, J.: GRMHD simulations of the black hole shadow in Sgr A* and M87, invited talk, Black Holes and Black Hole Alternatives, Oldenburg, Germany, October 2016.
- Dexter, J.: Resolving the Event Horizon of the Galactic Center Black Hole, colloquium, Astronomical Institute of the Czech Academy of Sciences, Prague, Czech Republic, November 2016.
- Diehl, R.: Chemical evolution and nuclear astrophysics, contributed talk, Community Meeting "Nuclear Astrophysics in Germany", Darmstadt, Germany, November 2016.
- Diehl, R.: Gamma ray diagnostics of supernova explosions, contributed talk, MIAPP Conference "Supernovae", Garching, Germany, September 2016.
- Diehl, R.: Gamma ray telescopes and diffuse gamma ray line emissions, invited talk, Carpathian school of physics, Sinaia, Romania, July 2016.
- Diehl, R.: Gamma rays from SN2014J, contributed talk, XVIIIth Workshop on Nuclear Astrophysics, Ringberg Castle, Germany, March 2016.
- Diehl, R.: Insights from cosmic gamma rays, colloquium, Astrophysics Colloquium of Physics Department of University of Tokyo, Tokyo, Japan, June 2016.
- Diehl, R.: Insights from cosmic gamma rays, invited talk,

- Astrophysics Seminar of ISAS/JAXA, Fuchinobe, Japan, June 2016.
- Diehl, R.: Insights from cosmic gamma rays, invited talk, Astrophysics Seminar of Kavli Institute for Mathematics of the Universe, Kashiwanoha, Japan, June 2016.
- Diehl, R.: Insights from cosmic gamma rays, invited talk, Astrophysics Seminar of Kyoto University, Kyoto, Japan, May 2016.
- Diehl, R.: Insights from cosmic gamma rays, invited talk, Astrophysics Seminar of National Astronomical Observatory of Japan, Mitaka, Japan, June 2016.
- Diehl, R.: Interstellar Gas across the Universe, contributed talk, Community Meeting "Nuclear Astrophysics in Germany", Darmstadt, Germany, November 2016.
- Diehl, R.: Lessons from Cosmic Gamma Ray Observations, invited talk, Brainstorming Meeting "Nuclear Astrophysics", Basel, Switzerland, September 2016.
- Diehl, R.: Lessons from cosmic gamma ray observations, colloquium, Institutskolloquium, Helmholtz-Institut für Kernphysik, Bonn, Germany, January 2016.
- Diehl, R.: Lessons on supernova explosions from cosmic gamma rays, invited talk, Carpathian school of physics, Sinaia, Romania, July 2016.
- Diehl, R.: News from cosmic gamma rays, invited talk, Symposium "Nuclei in the Cosmos XIV", Niigata, Japan, June 2016.
- Diehl, R.: Pair plasma in recent V404 Cygni flares, invited talk, American Physics Society Press Conference, Salt Lake City, USA, April 2016.
- Diehl, R.: Pair plasma in recent V404 Cygni observations, contributed talk, American Physics Society Conference, Salt Lake City, USA, April 2016.
- Diehl, R.: Perspectives for Nuclear Astrophysics, invited talk, Science Week of Excellence Cluster "Universe", Garching, Germany, December 2016.
- Diehl, R.: Radioactivity gamma rays and the Galaxy's large scale structure, contributed talk, Int. Conference "The Milky Way and its Environment", Paris, France, September 2016.
- Diehl, R.: The INTEGRAL Legacy, contributed talk, XVIIth Workshop on Nuclear Astrophysics, Ringberg Castle, Germany, March 2016.
- Diehl, R.: The INTEGRAL Legacy, invited talk, Winter School on Nuclear Astrophysics, Russbach, Austria, March 2016.
- Dwelly, T.: 4MOST Facility Simulator: capabilities and results, contributed talk, 4MOST All Hands Meeting 2016, Heidelberg, Germany, September 2016.
- Dwelly, T.: The 4MOST Operations System, contributed talk, SPIE Astronomical Telescopes + Instrumentation 2016, Edinburgh, UK, July 2016.
- Eisenhauer, F.: First Light for GRAVITY, invited talk, Astronomical Telescopes + Instrumentation, Edinburgh, Scotland, June 2016.
- Endres, C.P.: Collision induced transitions of ammonia revisited, contributed talk, Workshop on Laboratory Astrophysics: Interstellar Gas, Dust and Ice, Kreuth, Germany, September 2016.
- Endres, C.P.: The SOLEIL View on Prototypical Organic Nitriles: Selected Vibrational Modes of Ethyl Cyanide, C₂H₅CN, and Spectroscopic Analysis using an Automated Spectral Assignment Procedure (ASAP), contributed talk, International Symposium on Molecular Spectroscopy, Champaign - Urbana, Illinois, USA, June 2016.
- Facchini, S.: The impact of external photoevaporation on protoplanetary discs: the impact of dust growth, invited talk, ESO, Garching bei München, Germany, March 2016.
- Feng, S.: Complex Organics in high-mass star-forming regions, colloquium, Complex Organic Molecules in Space, Pisa, Italy, March 2016.
- Feng, S.: Outflow detection in a 70 micron dark high-mass core, colloquium, European Week of Astronomy and Space Science 2016, Athens, Greece, July 2016.
- Fossati, M.: Witnessing the onset of environmental quenching at $z = 1-2$. Results from 3D-HST, contributed talk, Physics of Groups and Galaxy Properties therein, Paris, France, December 2016.
- Fossati, M.: Witnessing the onset of environmental quenching at $z=1-2$. Results from 3D-HST, contributed talk, The galaxy life-cycle. From activity to quiescence, and back, across cosmic time, Venice, Italy, October 2016.
- Friedrich, P.: The eROSITA X-ray Telescope: Design, Development, Manufacturing, Test and Calibration, invited talk, 9th International Workshop on Astronomical X-Ray Optics Prague, Prague, Czech Republic, December 2016.
- Förster Schreiber, N. M.: Galaxy Evolution and Outflows from KMOS3D and SINS/zC-SINF, invited talk, In Situ View of Galaxy Formation, Ringberg, Germany, November 2016.
- Förster Schreiber, N.M.: Galaxy Evolution at the Peak Epoch of Cosmic Star Formation: Witnessing In-situ the Growth and Transformations of Young Galaxies, colloquium, Tel Aviv University, Tel Aviv, Israel, May 2016.
- Förster Schreiber, N.M.: Galaxy Evolution at the Peak Epoch of Cosmic Star Formation: Witnessing In-situ the Growth and Transformations of Young Galaxies, colloquium, The Hebrew University of Jerusalem, Jerusalem, Israel, May 2016.
- Förster Schreiber, N.M.: Outer regions and growth of high-redshift disk galaxies, invited talk, IAU Symposium 321: Formation and Evolution of Galaxy Outskirts, Toledo, Spain, March 2016.
- Förster Schreiber, N.M.: Spatially-Resolved Spectroscopy across 5 Gyrs of Cosmic Time, invited talk, Spectroscopy through the Ages, Leiden, The Netherlands, May 2016.
- Förster Schreiber, N.M.: Witnessing In-situ the Growth and Transformations of Galaxies at Cosmic Noon, invited talk, Panoramas of the Evolving Cosmos: 6th Subaru International Conference, Hiroshima, Japan, November 2016.
- Genzel, R.: Astronomische Forschung mit Weltraumgestützten Teleskopen, invited talk, Symposium Forum Technologie "Forschung mit Satelliten", Bayerische Aka-

- demie der Wissenschaften, Munich, Germany, April 2016.
- Genzel, R.: Massive Black Holes and Galaxies, public talk, FBBVA Foundation, Madrid, Spain, October 2016.
- Genzel, R.: Molecular Gas and Quenching in Star Forming Galaxies at the Peak Epoch of Cosmic Star Formation, invited talk, OPINAS Group Ringberg Meeting, Schloss Ringberg, Kreuth, Germany, March 2016.
- Genzel, R.: Schwarze Löcher — die gigantischen Zentren der Galaxien, invited talk, Exhibition "Einstein Inside", Heidelberg, Germany, October 2016.
- Genzel, R.: Status of the GRAVITY Project, colloquium, Noon Talk, University of California, Berkeley, USA, January 2016.
- Genzel, R.: The Formation and Evolution of Massive Star Forming Disk Galaxies, invited talk, Munich Joint Conference "Discs in Galaxies", Garching, Germany, July 2016.
- Genzel, R.: Evolution of Massive Star Forming Disks at $z \sim 1-3$, invited talk, Meeting "From Stellar Evolution to Galaxy Formation" in Honor of Alvio Renzini's 65th Birthday, Nagano, Japan, March 2016.
- Genzel, R.: Formation/evolution of star forming disk galaxies at the peak of galaxy formation, colloquium, ESO Vitacura, Santiago, Chile, April 2016.
- Genzel, R.: Mass budgets and quenching of $z=1-2$ star forming galaxies, invited talk, Santa Cruz Workshop on Galaxy Formation, Santa Cruz, USA, August 2016.
- Genzel, R.: Massive Black Holes and Galaxies, invited talk, CERN, Geneva, Switzerland, May 2016.
- Genzel, R.: Massive Schwarze Löcher und Galaxien, invited talk, Symposium in Honor of Nobel Awardee Harald zur Hausen, DKFZ (German Cancer Research Center), Heidelberg, Germany, March 2016.
- Genzel, R.: Opening of the meeting, invited talk, "In Situ View of Galaxy Formation", Kreuth, Germany, November 2016.
- Genzel, R.: Recent Results of the KMOS^{3D} spectroscopic Survey, colloquium, Physics Department, University of California, Berkeley, USA, January 2016.
- Genzel, R.: Schwarze Löcher - die gigantischen Zentren der Galaxien, public talk, public talk series "Physik im Theater", Mainz, Germany, October 2016.
- Genzel, R.: Schwarze Löcher und Galaxien, invited talk, ÖAW (Austrian Academy of Sciences), Feierliche Sitzung, Vienna, Austria, May 2016.
- Genzel, R.: The Galactic Center Black Hole: a Quest, colloquium, Astronomy Department, University of Chile, Santiago, Chile, April 2016.
- Genzel, R.: The Galactic Center Black Hole: a Quest, invited talk, EWASS 2016 (European Week of Astronomy and Space Science), Athens, Greece, July 2016.
- George, E.M.: Disobedience: Breaking the Rules for Social Good (panel discussion), invited talk, Forbidden Research, Cambridge, Massachusetts, USA, July 2016.
- George, E.M.: Hacking Culture, invited talk, Forbidden Research, Cambridge, Massachusetts, USA, July 2016.
- George, E.M.: Interplanetary Colonization, contributed talk, Chaos Communications Congress, Hamburg, Germany, December 2016.
- George, E.M.: Making SPIFFI SPIFFIER: Upgrade of the SPIFFI instrument for use in ERIS and performance analysis from re-commissioning, contributed talk, 2016 SPIE Astronomical Telescopes and Instrumentation, Edinburgh, Scotland, June 2016.
- George, E.M.: The beginning of the universe from the bottom of the world., public talk, Nerd Nite München, Munich, Germany, March 2016.
- Gerhard, O.: A coherent dynamical model for the inner Galaxy: bulge, long bar, disk, and halo, contributed talk, Elizabeth and Frederick White Research Conference Galactic archeology and stellar physics, Canberra, Australia, November 2016.
- Gerhard, O.: Bulge models, invited talk, EWASS, Spec. Sess.6. The life and times of the Milky Way bulge, Athens, Greece, July 2016.
- Gerhard, O.: The Milky Way in the age of Gaia, invited talk, Excellence Cluster Science Meeting, Garching, Germany, December 2016.
- Gerhard, O.: The bulge and bar in the Milky Way, invited talk, The secular evolution of self-gravitating systems over cosmic ages, Paris, France, May 2016.
- Gerhard, O.: The large-scale structure of the Milky Way, invited talk, Galactic Surveys: New Results on Formation Evolution Structure and Chemical Evolution of the Milky Way, Sesto, Italy, January 2016.
- Gillessen, S.: An application of GAIA in the Galactic Center, contributed talk, GAIA Workshop, HdA, Heidelberg, Germany, November 2016.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Volkssternwarte München, Munich, Germany, March 2016.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Ludwig-Maximilians-Universität München, Reihe Physik Modern, Munich, Germany, October 2016.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Nerd-Nite, Munich, Germany, June 2016.
- Gillessen, S.: Stellar orbits around Sgr A* and GRAVITY, colloquium, Uni Bochum, Bochum, Germany, September 2016.
- Gillessen, S.: The Galactic Center - unique astrophysical laboratory, invited talk, MAGIC Collaboration Meeting, Zurich, Switzerland, June 2016.
- Gillessen, S.: The Galactic Center - a unique astrophysical laboratory, colloquium, Physics Faculty of Adam Mickiewicz University, Poznan, Poland, January 2016.
- Gillessen, S.: The Galactic Center - a unique astrophysical laboratory, invited talk, Models of Gravity - Black Holes, Neutron Stars, and the structure of space-time, Oldenburg, Germany, October 2016.
- Gillessen, S.: The massive black hole in the Galactic Cen-

- ter, invited talk, FEUP Porto, Porto, Portugal, June 2016.
- Gillessen, S.: The tidal disruption of the gas cloud G2 in the Galactic Center, invited talk, Aspen Center for Physics, Aspen, USA, February 2016.
- Giuliano, B. M.: Spectroscopic Characterization of Interstellar Ice Analogues, contributed talk, Ringberg Workshop on Laboratory Astrophysics, Ringberg Castle, Germany, September 2016.
- Goto, M.: Water ice in the Pipe Nebula and beyond, contributed talk, Laboratory Astrophysics: Interstellar Gas, Dust and Ice, Ringberg, Germany, September 2016.
- Goto, M.: Water ice in the Pipe Nebula, contributed talk, IceAge - The Era of the James Webb Space Telescope, Leiden, The Netherlands, October 2016.
- Goto, M.: Why I need laser guide star for CRILES, contributed talk, VLT Adaptive Optics Community Days Garching 2016, Garching, Germany, September 2016.
- Haberl, F.: Das turbulente Herz der Milchstraße - Beobachtungen des Galaktischen Zentrums mit dem Röntgen-Satelliten XMM-Newton, public talk, Astronomie Stiftung Trebur, Trebur, Germany, April 2016.
- Haberl, F.: EXTrAS discovery of two pulsators in the direction of the LMC, invited talk, Exploring the X-ray Transient and Variable Sky, Pavia, Italy, November 2016.
- Haberl, F.: Highlights from the XMM-Newton X-ray surveys of the Magellanic Clouds, invited talk, Mondello Workshop 2016 on Frontier Research in Astrophysics, Palermo, Italy, May 2016.
- Haberl, F.: What have we learned from the XMM-Newton surveys of Local Group Galaxies?, invited talk, XMM-Newton: The Next Decade, Madrid, Spain, May 2016.
- Habibi, M.: A Paradox of Youth: Spectral Study of S-stars in the Galactic center, contributed talk, 631. Wilhelm und Else Heraeus-Seminar: Stellar aggregates over mass and spatial scales, Bad Honnef, Germany, December 2016.
- Habibi, M.: Spectral study of S- stars in the Galactic center., contributed talk, Dynamics and accretion at the Galactic Center, Aspen, USA, February 2016.
- Haerendel, G.: Kometenschweife, invited talk, Conference "Kometen", Evangelische Akademie Tutzing, Germany, April 2016.
- Haerendel, G.: Commonalities between auroral arcs and solar flares, invited talk, AGU Chapman Conference on Currents in Geospace and Beyond, Dubrovnik, Croatia, May 2016.
- Haerendel, G.: Stürme im Erdmagnetfeld und das Polarlicht, public talk, Ballonmuseum Gersthofen, Germany, May 2016.
- Haerendel, G.: A Peek behind the Scenes of a Space Scientist's Life, invited lecture, Munich-times In Aerospace - Summer School, Herrsching, Germany, June 2016.
- Herrera-Camus, R.: Thermal Pressure and Ionized gas in Nearby Galaxies, contributed talk, Feedback Processes and Modelling of the ISM, Freising, Germany, March 2016.
- Herrera-Camus, R.: Molecular Gas Studies at $z > 1$ as pursued at MPE IR/sub-mm group, invited talk, Physical Characteristics of Normal Galaxies at $z > 2$, Leiden, Netherlands, October 2016.
- Herrera-Camus, R.: Probing the Multiphase Interstellar Medium in Nearby Galaxies through Far-infrared Spectroscopy, colloquium, ALMA Science Center, Santiago, Chile, January 2016.
- Herrera-Camus, R.: Probing the Multiphase Interstellar Medium in Nearby Galaxies through Far-infrared Spectroscopy, colloquium, Universidad de Valparaiso, Valparaiso, Chile, January 2016.
- Herrera-Camus, R.: Using far-infrared transitions to study star formation activity in galaxies, contributed talk, How Galaxies form Stars, Stockholm, Sweden, August 2016.
- Herrera-Camus, R.: [CII] line emission in local and high- z galaxies, invited talk, In Situ View of Galaxy Formation, Ringberg, Germany, November 2016.
- Hocuk, S.: How chemistry influences Cloud structure, Star formation, and the IMF, invited talk, New York University Abu Dhabi (NYUAD), Abu Dhabi, U.A.E., April 2016.
- Hocuk, S.: Investigations and Explorations of the Interstellar Dust Temperature: from small grains to the big picture, contributed talk, Nova Network II, Leiden, The Netherlands, October 2016.
- Hocuk, S.: Sizes in the Universe, Miracles in Space, public talk, Münchener Akademiker Plattform, Munich, Germany, January 2016.
- Hocuk, S.: The Temperature of Interstellar Dust, contributed talk, Multiple Faces of Interstellar Dust, Garching, Germany, September 2016.
- Janssen, A.W.: Broad [CII] line wings as tracer of molecular outflows in local ULIRGs, colloquium, ASTRON, Dwingeloo, The Netherlands, June 2016.
- Janssen, A.W.: Broad [CII] line wings as tracer of molecular outflows in local ULIRGs, colloquium, Leiden University, Leiden, The Netherlands, June 2016.
- Janssen, A.W.: Broad wings in [CII] as tracers of molecular outflows, contributed talk, Sweeping galaxies clean, cold molecular outflows as driver of galaxy evolution. Sexten center for astrophysics, Sexten, Italy, February 2016.
- Käfer, F.: Surface brightness characterisation and evolution of galaxy clusters, contributed talk, German eROSI-TA Consortium meeting, Tübingen, Germany, September 2016.
- Käfer, F.: eHIFLUGCS: Scaling properties of an XMM-Newton galaxy cluster subsample, contributed talk, Alpine Cosmology Workshop, Bolzano, Italy, July 2016.
- Kanbach, G.: The Legacy of EGRET on CGRO, invited talk, CGRO Anniversary Science Session, GSFC, Greenbelt, USA, June 2016.
- Kanbach, G.: MEGA: a project for Medium Energy Gamma-ray Astronomy (0.4 - 50 MeV), invited talk, Workshop 'MeV Gamma-Ray Mission Concepts', Universität Würzburg, Würzburg, Germany, July 2016.
- Klecker, B.: Energetic particle ionic charge composition: a clue to their sources and acceleration, colloquium, Purple Mountain Observatory, Nanjing, China, October 2016.

- Laas, J.: Submillimeter Spectroscopy of Methoxy (CH₃O) for Interstellar Searches, contributed talk, 71st International Symposium on Molecular Spectroscopy, Champaign-Urbana, IL, USA, June 2016.
- Lattanzi, V.: Laboratory Measurements and Astronomical Search of the HSO Radical, contributed talk, 71st International Symposium on Molecular Spectroscopy, Urbana-Champaign, USA, June 2016.
- Lattanzi, V.: Submillimeter wave spectroscopy of HOCO+ and DOCO+, contributed talk, Workshop on LABORATORY ASTROPHYSICS: Interstellar Gas, Dust and Ice, Tagungstätte Schloss Ringberg, Kreuth, Germany, September 2016.
- Lattanzi, V.: The Center for Astrochemical Studies at the Max Planck Institute for Extraterrestrial Physics., contributed talk, 71st International Symposium on Molecular Spectroscopy, Urbana-Champaign, USA, June 2016.
- Lutz, D.: Co-Evolution of AGN and star formation, contributed talk, New Frontiers in Far-infrared and Sub-millimeter Astronomy, Aspen, USA, June 2016.
- Lutz, D.: Dust and gas shaping the evolution of high-redshift galaxies, invited talk, The multiple faces of interstellar dust, Garching, Germany, September 2016.
- Lutz, D.: The ISM content of galaxies up to $z \sim 2.5$, contributed talk, New Frontiers in Far-infrared and Sub-millimeter Astronomy, Aspen, USA, June 2016.
- Lutz, D.: The far-infrared emitting region in local galaxies and QSOs: Size and scaling relations, contributed talk, Discs in Galaxies, Garching, Germany, July 2016.
- Maier, P.: Abwehr von Asteroiden, public talk, Beitrag zur Folge "Asteroiden - die Bedrohung aus dem Kosmos" der N-24 Dokumentationsreihe "Spacetime", Munich, Germany, October 2016.
- Maier, P.: Die Abwehr von Asteroiden, public talk, Vortragsabend zum Asteroid Day, Lehrstuhl für Raumfahrttechnik der TUM, Universität der Bundeswehr München, Munich, Germany, June 2016.
- Maier, P.: On the potential of balloon-based telescopes to detect spectral evidence of mineable materials, contributed talk, Asteroid Science Intersections with In-Space Mine Engineering, Luxembourg, Luxembourg, September 2016.
- Meidinger, N.: Athena WFI Calibration, contributed talk, Athena Calibration Workshop, Utrecht, The Netherlands, January 2016.
- Meidinger, N.: MPE's views on SDDs as focal plane detectors for SFA, contributed talk, eXTP Workshop, Shanghai, China, March 2016.
- Meidinger, N.: The Wide Field Imager Instrument for ATHENA, invited talk, Space Telescopes and Instrumentation 2016: Ultraviolet to Gamma Ray, Edinburgh, Great Britain, July 2016.
- Meidinger, N.: The Wide Field Imager for Athena, invited talk, Athena WFI consortium meeting, Garching, Germany, March 2016.
- Meidinger, N.: X-ray cameras from XMM-Newton to eROSITA up to Athena, invited talk, Interdisciplinary Cluster Workshop "Detectors and Instrumentation", Garching, Germany, May 2016.
- Meidinger, N.: X-ray detector development from XMM-Newton to eROSITA up to Athena, invited talk, ESOC Seminar, Darmstadt, Germany, April 2016.
- Meidinger, N.: XMM-Newton EPIC-PN, eROSITA, Athena-WFI X-ray cameras, invited talk, AHEAD Background Workshop, Rome, Italy, November 2016.
- Meidinger, N.: eROSITA Camera Assembly, invited talk, eROSITA Consortium Meeting, Tübingen, Germany, September 2016.
- Merloni, A.: AGN evolution, a panchromatic view, invited talk, Finding Extremely Relativistic Objects, 8th meeting, Hnanice, Czech Republic, September 2016.
- Merloni, A.: Accretion discs, Broad Line Regions and Narrow line regions, invited talk, ESO-Athena Synergy Workshop, Garching, Germany, September 2016.
- Merloni, A.: Prospects for wide area surveys: the eROSITA-4MOST Synergy, invited talk, ESO-Athena Synergy Workshop, Garching, Germany, September 2016.
- Merloni, A.: SPIDERS, invited talk, eBOSS collaboration meeting, Lausanne, Switzerland, February 2016.
- Merloni, A.: eROSITA on SRG, invited talk, NuSTAR Meeting, Pasadena, USA, November 2016.
- Merloni, A.: eROSITA, invited talk, Follow-up of wide-area X-ray surveys, Ringberg Castle, Germany, April 2016.
- Müller, T.G.: 162173 Ryugu (1999 JU3): Predictions of size, shape, spin, thermal properties, and grain sizes, invited talk, Hayabusa-2 Joint Science Team Meeting, ISAS Tokyo, Japan, November 2016.
- Müller, T.G.: 162173 Ryugu (1999 JU3): Surface properties derived from remote (thermal) observations, contributed talk, International Regolith Science Group Meeting, Tokyo, Japan, November 2016.
- Müller, T.G.: Abwehr von Asteroiden, public talk, "Asteroiden - die Bedrohung aus dem Kosmos" der N-24 Dokumentationsreihe "Spacetime", Munich, Germany, July 2016.
- Müller, T.G.: Asteroiden: Gefahr aus dem All?, public talk, Lions Club Schleißheim, Oberschleißheim, Germany, October 2016.
- Müller, T.G.: Asteroids in the thermal infrared, colloquium, Japan-wide transmitted institute colloquium, Kobe, Japan, December 2016.
- Müller, T.G.: Die Charakterisierung von Asteroiden, public talk, Asteroid Day, Munich, Germany, June 2016.
- Müller, T.G.: Faszination Sonnensystem: Kleine Körper, exotische Welten, Planet X?, public talk, Excellence Cluster Universe; Begabungsstützpunkt Astronomie Erding, Garching, Germany, July 2016.
- Müller, T.G.: Kleinplanet Garching, public talk, VHS München Nord, Garching, Germany, January 2016.
- Müller, T.G.: Planet IX: Evidence for a trans-Kuiper-Belt planet?, colloquium, Excellence Cluster Universe; Special

Universe Talk, Garching, Germany, February 2016.

Müller, T.G.: Ryugu's surface properties from remote thermal observations, contributed talk, Multiscale Asteroid Science Group Meeting, Tokyo, Japan, December 2016.

Müller, T.G.: Small Bodies: Near and Far (SBNF): NEA benchmark studie, contributed talk, ASIME 2016: Asteroid Science Intersections with In-Space Mine Engineering, Luxembourg, Luxembourg, September 2016.

Müller, T.G.: Small bodies near and far, contributed talk, Asteroid Impact Mission (AIM) Science Meeting, ESAC Madrid, Spain, March 2016.

Müller, T.G.: Thermal Characterisation of TNOs/Centaurs with JWST, invited talk, JWST Solar System Workshop, London, UK, August 2016.

Müller, T.G.: Zwischen den Planeten: Von Asteroiden und Kometen, public talk, Kinder Uni Bad Neustadt, Bad Neustadt, Germany, January 2016.

Nandra, K.: Supermassive Black Hole Growth and Evolution, colloquium, Univ. Cambridge, Cambridge, UK, January 2016.

Nandra, K.: Athena and the Wide Field Imager, invited talk, Athena WFI Consortium Meeting, MPE, Garching, Germany, March 2016.

Nandra, K.: Athena: The Advanced Telescope for High Energy Astrophysics, invited talk, SPIE Conference, Edinburgh, UK, July 2016.

Nandra, K.: eROSITA: Synergies between Chandra and the next generation all sky survey, invited talk, Chandra Science for the next decade Conference, Cambridge, USA, August 2016.

Nelson, E.: Growth of Disks and Bulges at High z, invited talk, In Situ View of Galaxy Formation, Schloss Ringberg, Germany, November 2016.

Perez-Villegas, A.: The Stellar Halo in the Inner Milky Way: Predicted Shape and Kinematics, contributed talk, Excellence Cluster Science Day, Garching, Germany, November 2016.

Pfuhl, O.: Dual field interferometry with GRAVITY: the largest optical telescope in the world opens its second eye, contributed talk, SPIE Astronomical Telescopes + Instrumentation, Edinburgh, Great Britain, June 2016.

Pfuhl, O.: High precision astrometry with the GRAVITY interferometer, colloquium, European Week of Astronomy and Space Science, Athens, Greece, July 2016.

Pineda, J.E.: From Cores to Disks: Just follow the gas, invited talk, Workshop on Astrochemistry in Star and Planet Formation, RIKEN, Tokyo, Japan, February 2016.

Pineda, J.E.: The Green Bank Ammonia Survey (GAS): First results of NH₃ mapping the Gould Belt, contributed talk, "The hydride toolbox", Paris, France, December 2016.

Pineda, J.E.: The Green Bank Ammonia Survey (GAS): Initial Results, contributed talk, 227th Meeting of the American Astronomical Society, Kissimmee, Florida, USA, January 2016.

Pineda, J.E.: The Green Bank Ammonia Survey (GAS):

Initial Results, contributed talk, 227th Meeting of the American Astronomical Society, Kissimmee, Florida, USA, January 2016.

Plewa, P.: What's new with G2?, invited talk, Stellar aggregates over mass and spatial scales, Bad Honnef, Germany, December 2016.

Portail, M.: Dynamical Modelling of the Inner Galactic Barred Disk, contributed talk, Discs in Galaxies, ESO, Munich, Germany, July 2016.

Portail, M.: Dynamics and Mass of the Galactic Bulge, Bar and Inner Disk, contributed talk, The Milky Way and its environment, IAP, Paris, France, September 2016.

Punanova, A.: Deuterium fraction and kinematics in low mass star forming regions: environmental effects, contributed talk, Symposium 9 "The Dynamics of Star and Planet Formation" of the EWASS-2016 (European Week of Astronomy and Space Science), Athens, Greece, July 2016.

Punanova, A.: Deuterium fractionation and kinematics in the Taurus molecular cloud, contributed talk, Fractionation of isotopes: from Solar System to galaxies, Florence, Italy, October 2016.

Rau, A.: Athena Wide Field Imager Key Science Drivers, contributed talk, SPIE for Astronomical Telescopes and Instrumentation 2016, Edinburgh, Scotland, July 2016.

Rau, A.: Athena/WFI - Scientific Motivation, invited talk, MPG HLL Review Meeting, Ringberg, Germany, December 2016.

Rau, A.: High-z GRBs in the optical/IR/mm: host galaxy morphology, star formation rate, metallicity, fast optical follow-up, invited talk, ESO-Athena Synergy Workshop, Garching, Germany, Sep 2016.

Rau, A.: Prospects for detecting the shortest period AM CVn systems in the eROSITA all-sky survey, contributed talk, eROSITA_DE Consortium Meeting, Tübingen, Germany, September 2016.

Rau, A.: SRG/eROSITA - Gaia synergies for transients and variables, contributed talk, 7th Opticon Gaia Science Alerts Workshop, Utrecht, The Netherlands, December 2016.

Rau, A.: Science Requirements and Science Team Activities, contributed talk, Athena/WFI Proto-Consortium Meeting, Garching, Germany, March 2016.

Rau, A.: WFI Update, invited talk, X-IFU Consortium Meeting, Utrecht, The Netherlands, May 2016.

Salvato, M.: Photoz for AGN: successes and problems, invited talk, A Cosmic Census of the Galaxies in the Distant Universe, Leiden, The Netherlands, June 2016.

Salvato, M.: Determination of optical/IR counterparts of distant X-ray sources and their redshift, invited talk, ESO-Athena Synergy Workshop, Garching, Germany, September 2016.

Salvato, M.: Errors on blind photoz computed on AGN, contributed talk, Euclid OU-PHZ biannual meeting, Napoli, Italy, May 2016.

Salvato, M.: My work, public talk, Girls' Day, Garching,

Germany, April 2016.

Salvato, M.: ROSAT-2RXS counterparts using Nway. An accurate (Bayesian) algorithm to pair sources simultaneously between N catalogs, invited talk, Challenges in Statistical Inference, Garching, Germany, November 2016.

Salvato, M.: SPIDERS value-added Catalog for AGN, contributed talk, eBOSS collaboration meeting, Lausanne, Switzerland, February 2016.

Salvato, M.: The eROSITA Surveys and the Follow-up, colloquium, JPL Colloquium, Pasadena, CA, USA, September 2016.

Salvato, M.: eROSITA AGN and synergy with JPAS, contributed talk, 13th J-PAS Meeting, Teruel, Spain, September 2016.

Salvato, M.: eROSITA AGN properties: tools/requirements, contributed talk, eROSITA consortium meeting, Tübingen, Germany, September 2016.

Salvato, M.: eROSITA AGN, contributed talk, Follow-up of wide-area X-ray surveys: Science, Facilities, Programs, Ringberg, Germany, April 2016.

Salvato, M.: eROSITA and Euclid synergy, invited talk, Euclid Consortium Meeting 2016, Lisbon, Portugal, June 2016.

Salvato, M.: eROSITA, invited talk, X-ray View of Black Hole Activity in the Local Universe, Zurich, Switzerland, February 2016.

Salvato, M.: eROSITA and SPHEREx synergy, invited talk, Astrophysics with the SPHEREx All-Sky Spectral Survey, Pasadena, USA, February 2016.

Sanders, J.S.: A Chandra hydrostatic analysis of SPT-selected galaxy clusters, contributed talk, German eROSITA Consortium Meeting, Tübingen, Germany, September 2016.

Sanders, J.S.: A detailed X-ray view of the intracluster medium, colloquium, Munich Joint Astronomy Colloquium, Garching, Germany, March 2016.

Sanders, J.S.: Episodic feedback in the core of the Centaurus cluster, contributed talk, Galaxy clusters: physics laboratories and cosmological probes, Kavli Institute for Cosmology, Cambridge, UK, December 2016.

Sanders, J.S.: Veusz, a scientific plotting package, contributed talk, 9th European Conference on Python in Science, Erlangen, Germany, August 2016.

Schönfelder, V.: The History of COMPTEL, invited talk, Celebration of the 25th Anniversary of the Launch of the Compton Gamma Ray Observatory, GSFC, Greenbelt, USA, June 2016.

Schruba, A.: Molecular Cloud Structure and the Star Formation Process at Low Metallicity, colloquium, Königstuhl Colloquium, Max Planck Institute for Astronomy, Heidelberg, Germany, March 2016.

Schruba, A.: Observing the Gaseous Material of the Universe, invited talk, ISM-SPP Conference, Freising, Germany, March 2016.

Schruba, A.: Observing the Interstellar Medium and Star Formation Process in Nearby Galaxies at High Physical

Detail, colloquium, Onsala Space Observatory, Onsala, Sweden, August 2016.

Schruba, A.: The Gas-Star Cycle resolved from Galactic to Cloud Scale in Nearby Galaxies, contributed talk, How Galaxies form Stars, Stockholm, Sweden, August 2016.

Schruba, A.: The High-Resolution View on the Gas-Star Cycle in Nearby Galaxies, contributed talk, Via Lactea: The Milky Way as a Star Formation Engine, Rome, Italy, September 2016.

Schruba, A.: The Interstellar Medium Structure and Star Formation Process in Nearby Disk Galaxies, contributed talk, Discs in Galaxies, ESO, Garching, Germany, July 2016.

Shimizu, T.: The Star-Forming Properties of an Ultra-Hard X-ray Selected Sample of AGN, contributed talk, 227th Meeting of the American Astronomical Society, Kissimmee, FL, USA, January 2016.

Simm, T.: PSD analysis of optical QSO light curves, contributed talk, Active Galactic Nuclei: what's in a name?, Garching, Germany, June 2016.

Simm, T.: PSD analysis of optical QSO light curves, contributed talk, Fero8 Meeting, Vinice Hnanice, Czech Republic, September 2016.

Sipilä, O.: Models of deuterium and spin-state chemistry in low-mass star-forming cores, colloquium, Center for Star and Planet Formation, Copenhagen, Denmark, February 2016.

Soeldner-Rembold, I.: Kinematics of planetary nebulae in NGC 4278, contributed talk, IAU Symposium S323 on Planetary Nebulae: Multi-wavelength Probes of Stellar and Galactic Evolution, Beijing, China, October 2016.

Strong, A.: Cosmic rays: propagation in theory and practice, invited talk, Erice International School on Cosmic-Ray Astrophysics, Erice, Italy, August 2016.

Strong, A.: GALPROP Retrospective and Outlook, colloquium, Ruhr-Universitaet Bochum, Bochum, Germany, February 2016.

Strong, A.: Gamma-ray data analysis with D3PO, contributed talk, Gamma2016, Heidelberg, Germany, July 2016.

Strong, A.: Reflections on Cosmic Rays Beyond the Standard Model, invited talk, Cosmic Rays Beyond the Standard Model, San Vito di Cadore, Italy, September 2016.

Strong, A.: Reflections on Cosmic-Ray Folklore, invited talk, Sources of Galactic Cosmic rays, Paris, France, December 2016.

Strong, A.: The high-energy ISM and magnetic fields in the context of cosmic rays, gamma rays and synchrotron, invited talk, DFG Research Unit FOR-1254: Magnetic Fields. Plenary Meeting, Berlin, Germany, September 2016.

Sturm, E.: Molecular outflows and feedback in the local universe, invited talk, In Situ View of Galaxy Formation, Ringberg Castle, Germany, October/November 2016.

Szűcs, L.: On the caveats of tracing molecular gas with CO emission, invited talk, STARPLAN, Copenhagen, Denmark, May 2016.

Szűcs, L.: On the caveats of tracing molecular gas with

CO emission, invited talk, School of Physics and Astronomy, Cardiff University, Cardiff, UK, October 2016.

Tacconi, L.J.: Galaxy Formation and Evolution: Gas and Star Formation Properties, invited talk, Half a Decade of ALMA: Cosmic Dawns Transformed, Indian Wells, California, USA, September 2016.

Tacconi, L.J.: Star Formation in Massive Galaxies: the Observational Perspective, invited talk, EWASS Symposium, How Galaxies Live and Die, Athens, Greece, July 2016.

Tacconi, L.J.: The Evolution of Molecular Gas in Star Forming Galaxies from $z=2.5$ to 0, invited talk, From Stellar Evolution to Galaxy Formation: A Celebration in Honor of Alvio Renzini, Kogen Lodge, Nagano, Japan, March 2016.

Tacconi, L.J.: Unified Gas Scaling Relations in Star Forming Galaxies, invited talk, In Situ View of Galaxy Formation, Ringberg Castle, Germany, October 2016.

Tadaki, K.: ALMA Reveals Rapid Formation of a Dense Core for Massive Galaxies at $z\sim 2$, contributed talk, 2016 STScI Spring Symposium: What Shapes Galaxies?, Baltimore, US, April 2016.

Tadaki, K.: ALMA Reveals Rapid Formation of a Dense Core for Massive Galaxies at $z\sim 2$, contributed talk, The Changing Face of Galaxies, Hobart, Australia, September 2016.

Tadaki, K.: ALMA reveals rapid formation of a dense core for massive discs at $z\sim 2$, contributed talk, Discs in galaxies, Garching, Germany, July 2016.

Tadaki, K.: Bulge-forming galaxies with an extended rotating disk at $z\sim 2$, contributed talk, In Situ View of Galaxy Formation, Ringberg, Germany, November 2016.

Tadaki, K.: Rapid formation of a central bulge in massive galaxies at $z\sim 2$: from MAHALO-Subaru to GRACIAS-ALMA, contributed talk, Panoramas of the Evolving Cosmos, Hiroshima, Japan, December 2016.

Thomas, J.: Kinematics & dynamical masses of local massive ETGs, invited talk, Deconstructing Galaxies at Cosmic Noon: The Present and Future of Deep Spectroscopic Surveys at High Redshift, Leiden, The Netherlands, August 2016.

Trümper, J.: Der Stern von Bethlehem, public talk, Montessori-Schule Hausham, Hausham, Germany, December 2016.

Trümper, J.: Discoveries in the X-Ray Sky - A personal recollection, invited talk, European Astronomical Society, Athens, Greece, July 2016.

Trümper, J.: Röntgenstrahlung von Neutronensternen, colloquium, Ernst-Abbe Kolloquium, Jena, Germany, November 2016.

Trümper, J.: Warum scheint eigentlich die Sonne?, public talk, Montessori - Schule Hausham, Hausham, Germany, December 2016.

Übler, H.: Dynamical Properties of Star-forming Galaxies at $0.7 < z < 2.7$, contributed talk, In Situ View of Galaxy Formation, Schloss Ringberg, Germany, November 2016.

Übler, H.: Dynamical Properties of Star-forming Galaxies at $z < 2$ with KMOS^{3D}, invited talk, Physical Characteristics

of Normal Galaxies at $z > 2$, Leiden, The Netherlands, October 2016.

van Dishoeck, E.F.: Astrochemistry: the past and next 10 years, invited talk, Early phases of star formation (EPOS) 2016, Ringberg, Germany, June 2016.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Cormack lecture, Edinburgh, UK, November 2016.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, public talk, John Bahcall public lecture, Washington DC, USA, March 2016.

van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, public talk, Public Lecture, Amsterdam, The Netherlands, November 2016.

van Dishoeck, E.F.: Chemical fingerprints of star formation, invited talk, European conference on lab astrophysics: gas on the rocks, Madrid, Spain, November 2016.

van Dishoeck, E.F.: Disk physical properties and evolution: major questions for ALMA, invited talk, Protostars and disks with ALMA in Cycle 4, Bordeaux, France, January 2016.

van Dishoeck, E.F.: From clouds to stars and comets, invited talk, Rosetta-ROSINA workshop, Kandersteg, Switzerland, June 2016.

van Dishoeck, E.F.: Hydrides in star-forming regions, invited talk, The Hydride Toolbox, Paris, France, December 2016.

van Dishoeck, E.F.: Protoplanetary disks: what sets the composition of planet-forming material?, invited talk, Kavli exofrontiers symposium, Cambridge, UK, September 2016.

van Dishoeck, E.F.: Roles of women astronomers in the IAU, invited talk, The 10th East Asian meeting on Astronomy, Seoul, Korea, September 2016.

van Dishoeck, E.F.: Setting the scene for planet formation: what ALMA tells us about gas and dust in disks, invited talk, Lorenz Center workshop on New directions in planet formation, Leiden, The Netherlands, July 2016.

van Dishoeck, E.F.: The ALMA PILS survey: sweet ingredients for planet formation, colloquium, Univ. Santiago, Santiago, Chile, December 2016.

van Dishoeck, E.F.: The JWST MIRI instrument and its potential for ice observations, invited talk, Ice Age: the era of the James Webb Space Telescope, Leiden, The Netherlands, October 2016.

van Dishoeck, E.F.: The chemistry trail from clouds to disks and comets, invited talk, From Giotto to Rosetta: 50th ESLAB symposium, Leiden, The Netherlands, March 2016.

van Dishoeck, E.F.: Transitional disks: structure and origin, colloquium, Univ. Florence, Florence, Italy, June 2016.

van Dishoeck, E.F.: Transitional disks: structure and origin, colloquium, University of Arizona, Tucson, USA, April 2016.

van Dishoeck, E.F.: Transitional disks: structure, origin

and evolution, invited talk, The 10th East Asian meeting on Astronomy, Seoul, Korea, September 2016.

van Dishoeck, E.F.: Water across the star formation stages, contributed talk, Water in the universe: from clouds to oceans, Noordwijk, The Netherlands, April 2016.

van Dishoeck, E.F.: Water from clouds to planets, colloquium, John Bahcall lecture, NASA-Goddard, Washington DC, USA, March 2016.

van Dishoeck, E.F.: Water from clouds to planets, invited talk, Nijmegen, The Netherlands, April 2016.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA (John Bahcall lecture), colloquium, StScl, Baltimore, USA, March 2016.

van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA, colloquium, UNAM, Mexico City, Mexico, May 2016.

Vasyunin, A.: Which Chemical Models for What?, invited talk, Astrochemistry with ALMA Cycle 4, Floirac, France, January 2016.

Vasyunin, A.: Formation of complex organic molecules in prestellar cores: an extended model, invited talk, Symposium 8 "Interstellar dust and gas coupling: linking observations, models and laboratory astrophysics" at EWASS-2016, Athens, Greece, July 2016.

von Kienlin, A.: Fermi GBM Observations of LIGO GW150914, invited talk, The first observation of a binary black hole merger: Status and future prospects, Hannover, Germany, May 2016.

von Kienlin, A.: Recent results with Fermi GBM, invited talk, SciNeGHE 2016, High-energy gamma-ray experiments at the dawn of gravitational wave astronomy, Pisa, Italy, October 2016.

Waisberg, I.: GRAVITY@VLTI: Testing General Relativity at the Galactic Center with Optical Interferometry, invited talk, GW161212: The Universe through gravitational waves, Stony Brook, USA, December 2016.

Wilman, D.J.: Tracing the Inside-out Growth and Outside-In Quenching of Disks over $\sim 85\%$ of cosmic time, contributed talk, Mapping the Pathways of Galaxy Transformation across time and space, Catalina Island, California, USA, July 2016.

Wilman, D.J.: Tracing the Inside-out Growth and Outside-In Quenching of Disks over $\sim 85\%$ of cosmic time, contributed talk, The Interplay between local and global processes in Galaxies, Cozumel, Mexico, April, 2016.

Wisnioski, E.: Tracing High-z Galaxy Kinematics from Turbulent Disks to Quenched Spheroids, invited talk, The Changing Face of Galaxies, Hobart, Australia, September 2016.

Wisnioski, E.: The KMOS3D project, invited talk, Formation & Evolution of Galaxy Outskirts, Toledo, Spain, March 2016.

Wisnioski, E.: Tracing High-z Galaxy Kinematics from Turbulent Disks to Quenched Spheroids, invited talk, In Situ View of Galaxy Formation, Ringberg Castle, Germany, November 2016.

Yu, H.-F.: Time-Resolved Spectral Shapes of Gamma-Ray Bursts, invited talk, The Eighth Huntsville Gamma-Ray Burst Symposium, Huntsville, AL, USA, October 2016.

Dissertationen

- Bauböck, M.: The Effects of Spin on Neutron-Star Observations. University of Arizona, Tucson, USA 2016.
- Belli, S.B.: Deep near-infrared spectroscopy of high-redshift galaxies: the physical growth of passive systems. California Institute of Technology, Pasadena, USA 2016.
- Chan, C.C.: Constraining the formation and evolution of cluster galaxies at $z \sim 1.5$ using sizes and colour gradients. Ludwig-Maximilians-Universität München 2016.
- Fossati, M.: Environmentally driven suppression of star formation in galaxies over the last 10 billion years. Ludwig-Maximilians-Universität München 2016.
- Grieb, J.N.: Anisotropic galaxy clustering measurements in Fourier space and cosmological implications from the BOSS DR12 sample. Ludwig-Maximilians-Universität München 2016.
- Lang, P.: The Evolution of high-redshift galaxies from high-resolution near-infrared observations. Ludwig-Maximilians-Universität München 2016.
- Mantovani, G.: Reflection signatures in bright Seyfert 1 galaxies observed with Suzaku and NuSTAR. Ludwig-Maximilians-Universität München 2016.
- Menz, B.J.: Development of large area X-ray beam collimator. Technische Universität München 2016.
- Menzel, M.-L.: Narrow line kinematics in a spectroscopic survey of X-ray selected AGN in the XMM-XXL North. Ludwig-Maximilians-Universität München 2016.
- Obermeier, C.: Searching for hot Jupiter transits around cool stars. Ludwig-Maximilians-Universität München 2016.
- Opitsch, M.O.: The bar of the Andromeda galaxy revealed by integral field spectroscopy. Ludwig-Maximilians-Universität München 2016.
- Portail, M.P.: Structure and Dynamics of the Galactic Bulge and Bar. Ludwig-Maximilians-Universität München 2016.
- Siegert, T.: Positron Annihilation Spectroscopy throughout the Milky Way. Technische Universität München 2016.
- Salazar Alborno, S.: A tomographic approach to the statistical analysis of the large-scale structure of the universe. Ludwig-Maximilians-Universität München 2016.
- Yu, H.-F.: Constraints on the Prompt Emission Mechanism of Gamma-Ray Bursts using Time-Resolved Spectroscopy. Technische Universität München 2016.

Masterarbeiten

- Augenstein, A.: Classification of Background Lines in SPI/INTEGRAL. Technische Universität München 2016.
- Floers, A.: Nebular Spectra of Type Ia Supernovae. Technische Universität München 2016.
- Gräff, D.: Upgrade and Characterization of the SPIFFI/SINFONI Optics. Technische Universität München 2016.
- Pleintinger, M.: Spectroscopy of an Emission Nebula. Technische Universität München 2016.
- Schmalzl, S.: Development of Advanced Techniques for the Analysis of Imaging Spectrometer Data Obtained at the Very Large Telescope in Chile. Technische Universität München 2016.
- Sicheneder, E.: An HII Region Model of Strong Interstellar Scattering towards the Galactic Center. Technische Universität München 2016.
- Vogl, C.: Towards distance determinations of Type IIp Supernovae. Technische Universität München 2016.

Bachelorarbeiten

- Boeck, F.: Broadband study of Cassiopeia A. Technische Universität München 2016.
- Christodoulou, A.: Supernova SN2014J and Positrons. Technische Universität München 2016.
- Philip, J.: Suche nach extrasolaren Planeten per Transitmethode und Periodenmessung von Bedeckungsveränderlichen Doppelsternen in M67. Ludwig-Maximilians-Universität München 2016.

Kollaborationen / Wissenstransfer

Wissenschaftliche Kollaborationen nach Ländern



Australien

Australian National University, Canberra: Galaxienentstehung.

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

Monash University, Melbourne: Nukleare Astrophysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

Belgien

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

Brasilien

Universidade 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: CAS Observations.

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

University of Toronto: CAS-Observations.

University of Victoria, Victoria: CAS-Observations.

University of Waterloo, Waterloo: Herschel HIFI.

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

Queen's University, Kingston: CAS-Observations.

Chile

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

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme; Galaktisches Zentrum.

China

Donghua University, Shanghai: CAS-Theory.

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

Nanjing University, Nanjing: CAS-Observations.

National Observatory of China, Beijing: CAS-Observations.

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

Dänemark

Dänemarks Technische Universität: ATHENA.

Deutschland

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

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

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

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

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

Institut für Astrophysik Göttingen: MICADO.

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

Institut für Materialphysik im Weltraum, Köln: Glasübergänge.

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

Laser Zentrum Hannover: Development of advanced Filters for MICADO; Dichroics for ARGOS.

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

Maier-Leibnitz Laboratorium, Garching: eROSITA.

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

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

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

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

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

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

Physikalisch-Technische Bundesanstalt Berlin: eROSITA.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Nukleare Astrophysik; CAS-Projekte.

Thüringer Landessternwarte Tautenburg: GROND; Gamma-Ray Bursts.

Universität Bochum: LUCI.

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

Universität der Bundeswehr, München: CAS-Projekte.

Universität Düsseldorf: ERC Advanced Grant; CAS-Theory.

Universität Erlangen (ECAP): eROSITA; ATHENA.

Universität Hamburg: eROSITA; OPTIMA (Flarestars).

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

Universität Jena: Isolierte Neutronensterne; Nukleare Astrophysik.

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

Universität Mannheim: ATHENA; XFEL.

Universität Stuttgart: CAS-Projects.

Universität Würzburg: AGADE.

Finnland

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

Frankreich

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

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

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

IAP Paris: Nukleare Astrophysik.

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

IRAM, Grenoble: CAS-Observations.

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

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

OAMP Marseille: Herschel-PACS.

Observatoire de Paris (GEPI): MICADO; Gravity.

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

Observatoire de Paris-Meudon: GRAVITY, Galaktisches Zentrum.

University of Bordeaux, Bordeaux: CAS-Theory.

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

Université Paris Diderot, Paris: CAS-Observations.

Université de Rennes, Rennes: CAS-Observations.

Université de Toulouse, Toulouse: CAS-Observations.

Griechenland

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

National Observatory of Athens, Athens: Athena.

Großbritannien

Queen's University, Belfast: PanSTARRS.

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

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

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

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

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

University of Cambridge: DES.

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

University of Durham: PanSTARRS.

University of Edinburgh: DES; PanSTARRS.

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

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

University of Nottingham: DES.

University of Portsmouth: DES.

University of Sussex, Brighton: DES.

University of Southampton: Magellanic Clouds.

Irak

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

Irland

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

University College Dublin: Fermi/GBM.

Israel

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

Weizmann Institut, Rehovot: Galaktisches Zentrum.

Italien

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen.

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

INAF (Istituto Nazionale di Astrofisica): ATHENA, EUCLID.

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

INAF Padua: Herschel-PACS; LBT; MICADO; ERIS.

INAF Roma: LBT; Nukleare Astrophysik.

INAF Teramo: ERIS.

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.

Scuola Normale Superiore, Pisa: CAS-Observations.

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

Università di Torino, Torino: CAS-Observations.

Università di Firenze, Firenze: CAS-Observations.

Università di Perugia, Perugia: CAS-Observations.

Japan

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

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

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

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

University of Osaka: Astro-H.

University of Tokyo, Tokyo: CAS-Observations.

Korea

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

Kroatien

Ministry of Science and Technology, Zagreb: CAST.

Lettland

Ventspils University College, Ventspils: CAS-Theory.

Mexiko

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

Niederlande

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

JIVE Dwingeloo: Black Hole Cam.

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

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

Radboud University, Nijmegen: Black Hole Cam.

SRON, Utrecht: Chandra-LETG.

University of Groningen, Kapteyn Institute: Rekonstruktion

der Dichteverteilung im Universum; EUCLID; Dynamical-Chemical Models; CAS-Theory; CAS-Observations.

Österreich

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

Universität Innsbruck: MICADO.

Universität Linz: MICADO.

RICAM Linz: MICADO.

Polen

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

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

University Zielona Gora: OPTIMA.

Portugal

SIM Lissabon und Porto: GRAVITY.

Observatorio Astronomico de Lisboa, Lisbon: Athena.

Russland

Institute of Astronomy, Moscow: CAS-Theory.

Lebedev Institute of Physics, Moscow: CAS-Theory.

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

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

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

Ural Federal University, Yekaterinburg: CAS-Observations.

Schweden

University Lund/Observatory: OPTIMA.

Schweiz

CERN, Geneva: CAST.

ETH Zürich: ERIS.

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

Universität Basel: Nukleare Astrophysik.

University of Geneva: Athena.

University of Zurich: Infrared Dark Clouds.

Spanien

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

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

Ernst & Young Spain, Barcelona: CAS-Projects.

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

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

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

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

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

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

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen.

Observatorio Astronómico Nacional, Madrid: CAS-Observations.

Taiwan

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

National Central University, Chungli; PanSTARRS.

Tschechien

Charles University, Prague: CAS-Theory.

Türkei

Bogazici University, Istanbul: CAST.

Ungarn

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

USA

Argonne National Laboratory: DES.

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

Brookhaven National Laboratory: strahlenharte JFET-Elektronik; strahlenharte Detektoren.

California Inst. of Technology, Pasadena: X-ray Survey.

CfA, Cambridge: ATHENA/WFI; XMM-Newton/Chandra Kalibration.

Clemson University: Gamma-Ray Bursts; Nukleare Astrophysik.

Fermilab, Batavia: DES.

Harvard University: PanSTARRS.

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

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

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

Johns Hopkins University: PanSTARRS.

Marshall Space Flight Center, Huntsville: Fermi Gamma-

Ray Burst Monitor; XMM-Newton und Chandra Beobachtungen von Neutronensternen, Pulsaren und Supernova-Überresten.

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

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

NASA Herschel Science Center (NHSC), Pasadena: Herschel/PACS.

National Radio Astronomy Observatory, Socorro: CAS-Observations.

NOAO, Tucson: DES.

Ohio State University, Columbus: DES; LBT.

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

Pennsylvania State University: HETDEX; Swift; Athena.

Research Corporation, Tucson: LBT.

San Jose State University: MHD shocks.

SLAC, Stanford: CAMP; DES; Athena.

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

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

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

Texas A & M University, College Station: DES.

Texas State University, San Marcos: HETDEX.

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

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

University of California, Santa Cruz: DES.

University of Chicago: DES.

University of Chicago, Chicago: CAS-Observations.

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

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

University of Illinois at Urbana-Champaign: DES.

University of Massachusetts, Amherst: CAS-Observations.

University of Michigan: DES.

University of Pennsylvania: DES.

University of Pittsburgh: Galaxienentstehung.

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung

University of Virginia, Charlottesville: CAS-Theory.

Yale University, New Haven: CAS-Observations.

Multinationale Kollaborationen - Projekte

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

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

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

BOSS - Baryon Oscillation Spectroscopic Survey: SDSS-IV Collaboration.

CAST - CERN Solar Axion Telescope: CERN Geneva, Switzerland; TU Darmstadt, MPI für Physik (WHI) München, Germany; Universidad de Zaragoza, Spain; Bogazici University Istanbul, Turkey; Ministry of Science and Technology Zagreb, Croatia; CEA, Saclay, DAPNIA/-SED, France; Pacific Northwest National Laboratory, Richland, USA.

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

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

COSMOS - Cosmological Evolution Survey: INAF-Osservatorio Astronomico di Bologna, INAF-Osservatorio Astronomico di Roma, INAF-Osservatorio Astrofisico di Arcetri, INAF/IASF-CNR, Sezione di Milano, IRA-INAFF, Bologna, Dipartimento di Astronomia, Università Padova, Dipartimento di Fisica, Università degli Studi Roma Tre, Italy; Harvard-Smithsonian Centre for Astrophysics, Cambridge, Dept. of Physics, Carnegie Mellon University, 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 das Pesquisas Físicas, Universidade Federal do Rio, Brasilien; Instituto de Ciencias del Espacio, Institut de Física d'Altes Energies, Centro de Investigaciones Energéticas Medioambientales y Tecnológicas, Spain.

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

eROSITA - extended Roentgen Survey with an Imaging Telescope Array: AIP Potsdam, Universität Tübingen, Universität Bonn, Universität Erlangen, Universität Hamburg, Reimis-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 Nazionale di Fisica Nucleare Trieste, Italy; University of Tokyo, Japan; CEA Saclay, France.

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

GRAVITY - Instrument for VLT Interferometry: MPIA Heidelberg, Universität Köln, ESO, Garching, Germany; SIM Lissabon 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; NHSC Pasadena, USA.

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

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

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

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

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

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 Heidelberg, IFA Göttingen, Germany; INAF-OAPD Padova, Italy; A* (partnership of University Vienna, University Innsbruck, University Linz and RICAM Linz), Austria; NOVA (federation of Dutch university astronomy departments of the universities in Amsterdam, Groningen, Leiden, Nijmegen), The Netherlands; CNRS/INSU (representing LESIA, GEPI and IPAG), Paris, France.

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

OPTIMA: AIP, MPI für Astrophysik, Universität Hamburg, Germany; University of Crete, Greece; University Zielona Gora, Poland; University Lund/Observatory, Schweden.

PanSTARRS - Panoramic Survey Telescope & Rapid Response System: MPIA Heidelberg, Germany, University of Hawaii, Harvard University, Johns Hopkins Univ. Baltimore, MD, USA; Universities of Durham, Edinburgh, Belfast, UK.

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

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

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

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

Industrielle Kollaborationen

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

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

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

af inventions, Braunschweig: FPGA Programmierung for eROSITA.

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

AMOS, Liège, Belgium: High resolution grating for ERIS.

Array Electronics, Egmating: DAQ development OPTIMA.

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

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

Dico-Solutions, München: Elektronikentwicklung für eROSITA.

ESL GmbH, Berlin: Manufacturing of circuit boards.

Fraunhofer IOF, Jena: Coating for ERIS.

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.

II-VI Deutschland, Weiterstadt: ZnS prototypes for ERIS grating.

Ingenieurbüro Buttler, Essen: Development of front-end

electronics for ATHENA and eROSITA.

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

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

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

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

Korth Kristalle GmbH, Kiel: Lenses for ERIS Spectrometer.

Kugler GmbH, Salem: ERIS.

Laser Components GmbH, Olching: ERIS Filters.

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

Luxel Corporation, USA: Filter for eROSITA.

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

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

OHB System AG, München; EUCLID design study.

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

RUAG Austria: Telescope-Cover-Mechanism for eROSITA.

Sacher Lasertechnik, Marburg: Metrology Laser for GRAVITY.

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

Aktivitäten im Wissenstransfer

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

A) Industriefinanzierte Forschungsk Kooperationen

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

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

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 2016

Das MPE hielt Ende 2016 insgesamt 10 Patente.