

ANNUAL STATISTICS 2013

Max-Planck-Institut für
extraterrestrische Physik
Garching



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Chaudhuri, M.: Parvez Guzdar award for Young Scientists, Indian Plasma Society, Pondicherry, India, January 2013.

Fortov, V.: President of the Russian Academy of Sciences, Moscow, Russia, May 2013

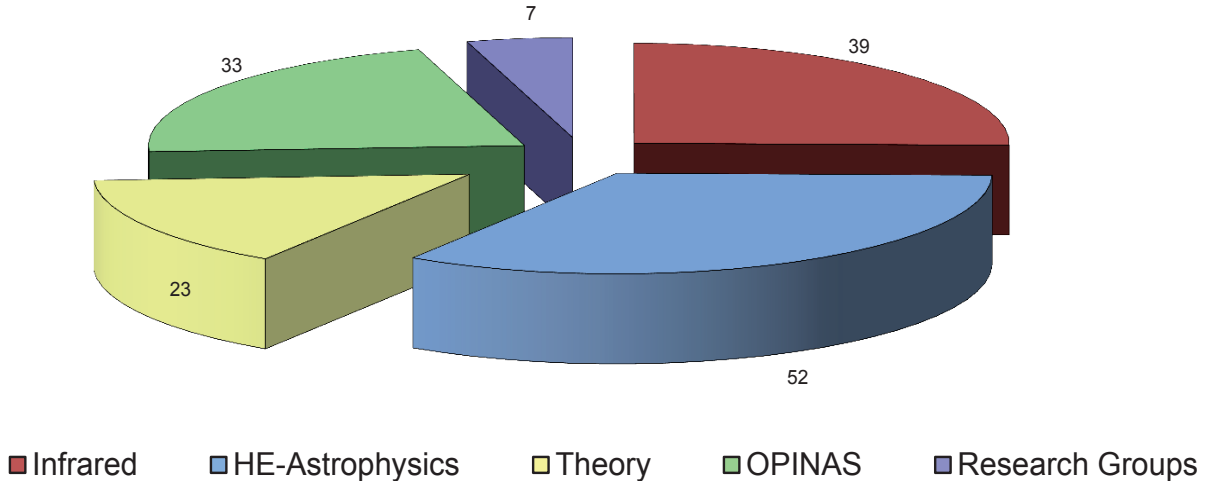
Genzel, R.: Order "pour le Mérite for Sciences and Arts", Bonn, Germany, October 2013.

Pfuhl, O.: Universe PhD Award 2013, Technical University Munich, Munich, Germany, November 2013.

Thoma, M.: W3 Professorship for Plasma and Astronautics Physics, University Giessen, Giessen, Germany, Juni 2013.

Science Groups

Staff Members by Science Group



Infrared / Submillimeter-Astronomy

Secretary: Dengler, S. (since 2.4.); Harai-Ströbl, S.

Agudo Berbel, A.; Bandara, Dr. K.; Berta, Dr.S.; Blind, Dr. N.; Bruderer, Dr. S.; Buschkamp, Dr. P.; Contursi, Dr. A.; Davies, Dr. R.; de Jong, Dr. J.A.; Dr. K.; Doublier Pritchard, Dr. V.; Eisenhauer, Dr. F.; Fedele, Dr. D.; Feuchtgruber, Dipl.-Phys. H.; Förster Schreiber, Dr. N.; Gillessen, Dr. S.; Gracia Carpio, Dr. J.; Hartl, Dr. M.; Hofmann, Dr. R.; Kleiser, A.; Kok, Dr. Y. (since 13.9.); Kurk, Dr. J.; Lutz, Dr. D.; Müller, Dr. T.; Osterhage, S.; Pfuhl, Dr. O.; Popesso, Dr. P. (until 30.4.); Poglitsch, Dr. A.; Raab, Dr. W.; Rabien, Dr. S.; Rief, Dr. A. (10.6.-31.8.); Rosario, Dr. D.; Saintonge, Dr. A. (until 30.8.); Schrubba, Dr. A. (since 1.10.); Sturm, Dr. E.; Tacconi, Dr. L.; Vilenius, Dr. E.; Wisnioski, Dr. E.; Wuyts, Dr. E.; Wuyts, Dr. S.; Zanker-Smith, J.

Guests

Netzer, Dr. H. (2.7.-23.8.); Newman, S. (29.5.-12.7.); Sternberg, Prof. A. (10.-17.7.); Veilleux, Prof. S. (2.7.-30.8.)

PhD / Diploma / Master

Fritz, Dipl. Phys. T. (until 30.9., Gillessen); Fuchs, L. (since 9.4., S. Wuyts); Fudamoto, Y. (since 5.8., Master; Förster Schreiber); Janssen, A. (Sturm); Karska, A. (van Dishoeck); Lang, P. (Förster Schreiber); Lippa, M. (Gillessen); Lin, M.-Y. (since 7.8., Davies); Loose, C. (until 31.8., Rabien); Lutz, K. (until 31.12., Saintonge/Tacconi); Miotello, A. (since 3.6., van Dishoeck); Murillo, N. (since 9.1., van Dishoeck); Orban di Xivry, G. (Rabien); Plewa, P. (seit 1.8., Fedele, van Dishoeck); Rugel, M. (since 23.9., Master, van Dishoeck); Sammer, M. (4.3.-31.7., Saintonge); Weber, J. (since 12.4., Eisenhauer)

High-Energy Astrophysics

Secretary: Boller, B.

Team Assistent: Frankenhuizen, W.

Andritschke, Dr. R.; Becker, Dr. W.; Böhringer, Dr. H.; Boller, Prof. Dr. T.; Bräuninger, Dr. H.; Brightman, Dr. M.; Brunner, Dr. H.; Burkert, Dr. W.; Buron, A.; Burwitz, Dr. V.; Caldolle-Bel, M. (since 1.10.); Conelly, J. (until 31.1.); Dennerl, Dr. K.; Diehl, Dr. R.; Dwelly, Dr. T.; Elbs, Dr. J.; Eder, Dipl.-Ing. J.; Emberger, V.; Englert, L.; Eraerds, T.; Freyberg, Dr. M.; Friedrich, Dr. P.; Fürmetz, Dr. M. (since 1.10.); Gaida, R.; Georgakakis, Dr. A.; Granato, Dr. S.; Greiner, Dr. J.; Gruber, D. (since 1.11.); Guglielmetti, Dr. F.; Haberl, Dr. F.; Hahn, A. (until 31.7.); Hartmann, K.; Hartner, Dipl.-Math. G.; Hauser, G.; Kienlin von, Dr. A.; Kann, Dr. A. (since 1.9.); Meidinger, Dr. N.; Merloni, Dr. A.; Nastasi, A. Dr. (until 30.11.); Pfeffermann, Dipl.-Phys. E.; Porro, Dr. M.; Predehl, Dr. P.; Rau, Dr., A.; Sanders, Dr. J.; Savaglio, Dr. S.; Schaller, G., (until 28.2.); Schopper, Dr. F. (until 28.2.); Schady, Dr. P.; Strong, Dr. A. (until 31.7.); Sturm, R. Dr.; Walther, S.; Weidenspointner, G.; Winter, Dr. A.; Zhang, Dr. X.-L.; Ziparo, Dr. F. (until 6.3.)

Guests

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Dr. G. (1.-9.9.); Townsend, Dr. L.J. (13.-15.10.); Tsuruta, Prof. Dr. S. (8.-16.7.); van Eerten, Dr. H. (since 14.8.); Velasco C.A. (9.7.-17.8.); Voges, Dr. W. (since 1.1.); Weber, Prof. Dr. F. (28.6.-13.7.); Werner, M. (31.7.-30.9.); Zhu, Liu (since 1.11.)

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Guests

Hartquist, T (15.-18.12.); Khrapak, A. (1.3.-30.4.); Fortov, V. (10.-13.1., 22.-25.7.; 20.-23.12.), Vladimirov, S. (12.-15.2., 24.-26.2., 4.-15.6., 22.-25.7.)

PhD / Diploma / Master

Boxhammer, V. (Zimmermann); Du, Ch. (Thomas); Du, Y. (Y. Li); Fink, Dipl.-Phys. M. (Morfill); Huber, Dipl.-Phys. P. (Morfill); Jeon, J. (Zimmermann); Klämpfl, T. (Zimmermann); Köritzer, J. (Zimmermann); Modest, H. (Räh); Röcker, Dipl.-Phys. T. (Ivlev); Wörner, L. (Thoma)

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Kormendy, Prof. Dr. J. (1.6.-18.8.); Gieren, Prof. Dr. W. (1.6.-30.9.); Raileneau, R. (3.6.-11.8.); Gebhardt, Prof. Dr. K. (26.7.-16.8.); Houghton, R. (21.-25.1.)

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Burkert, Prof. Dr. A.; Schartmann, Dr. M.

PhD / Diploma / Master

Abbellah, J.; Alig, C.; Behrendt, M.

Research Group Khochfar

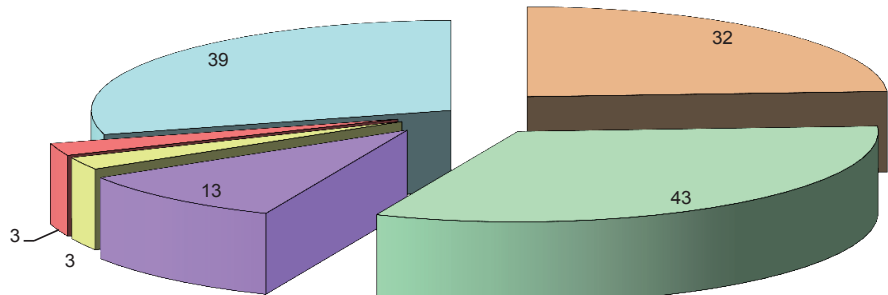
Davis, Dr. A.; Dalla Vecchia, Dr. V. (until 30.9.); Khochfar, PD Dr. S.; Powell, Dr. L. (until 30.9.); Neistein, Dr. E. (until 30.6.); Agarwal, Dr. B.; Paardekooper, Dr. J.-P.

PhD / Diploma / Master

Ballone, A.

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- Central Computing Group
- Library
- Mechanical Engineering
- Publication Services
- Administration

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Plattner, Dr. M. (Head of Electronics, since 1.9.)

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Greil, M.; Hiefinger, M.; Kratschmann, T.; Leimböck, F.; Lenzewski, S. (since 1.9.); Liepold, T. (since 1.9.); Reinold, A.; Schuppe, D.

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Student Assistants

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Practical Work Experience

Work Experience (Schools)

Buchelt, C.; Eichhorn, K.; Geigenberger, K., Gemperlein, M.; Heinrigs, M.; Hornig, M.; Hübner, E.; Korwieser, M.; Lausberg, O.; Langer, L.; Lemke, J.S.; Luncke, D.; Mack,

M.; Manzinger, J.; Perzl, L.; Rautenberg, A., Reinold, V.; Riedl, F.; Rowold, M.; Schöley, M.; Schommer, J.; Thomas, V.; Wachendorf, V.; Würsching, G.; Zuncke, D.;

Work Experience (University)

Ambrosino, W.; Arweiler, D., Penzinger, J.; Zeller, V.

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Chmielewski, E. (Head)

Blank, E.; Hardt, C.

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Ihle, M. (Head)

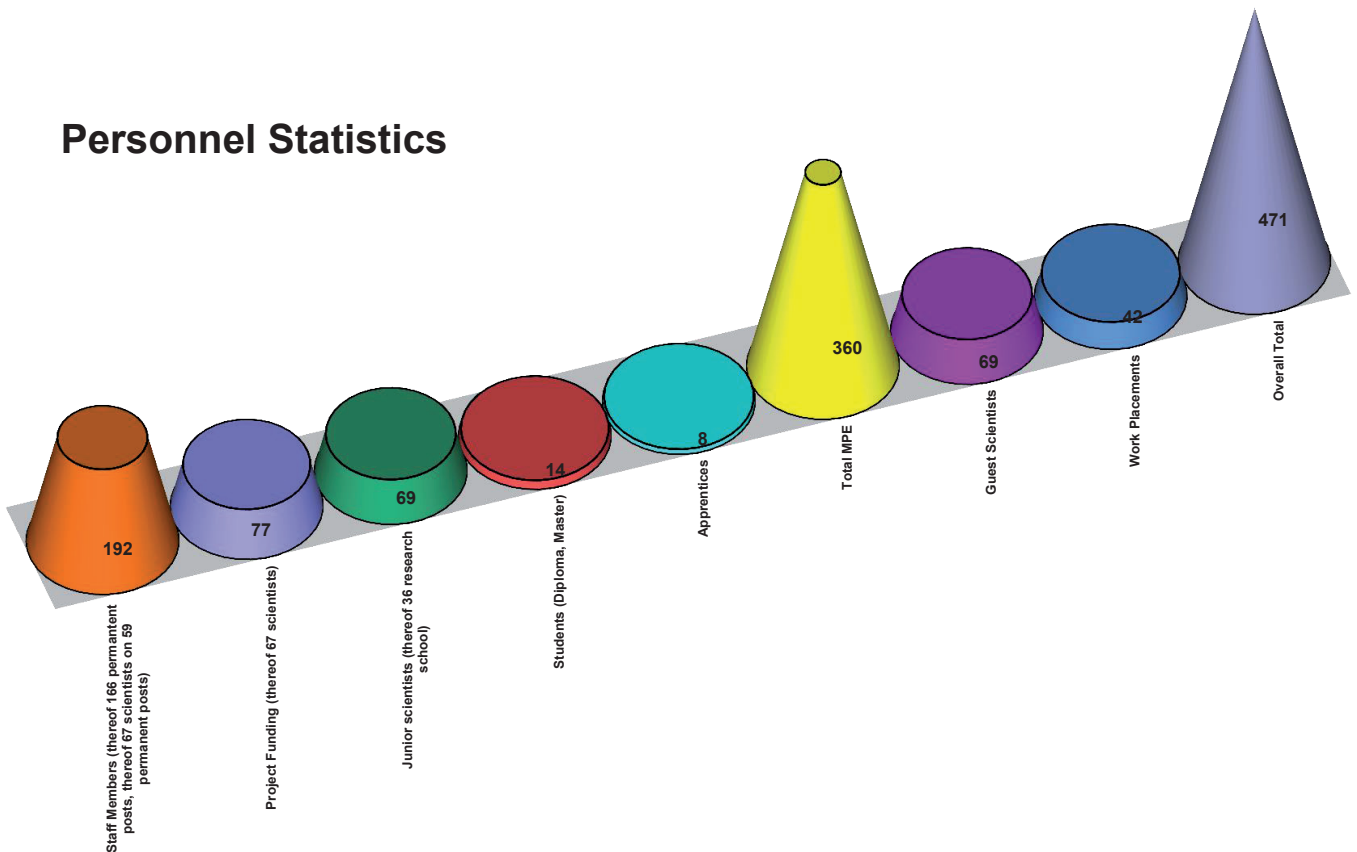
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Altinger, C.; Apold, G.; Arturo, A.; Bauernfeind, M; Bauer, T., Bitzer, U.; Cziasto, U.; Doll, E.; Eicher, C.; Ertl, M.; Goldbrunner, S.; Grasemann, M; Grohmann, M.; Gschnell, H.-P.; Hingerl, P.; Inhofer, I.; Jäkel, T.; Jirsch, J.; Karing, W.; Keil,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

IMPRS

Schubert, V.

Personnel Statistics

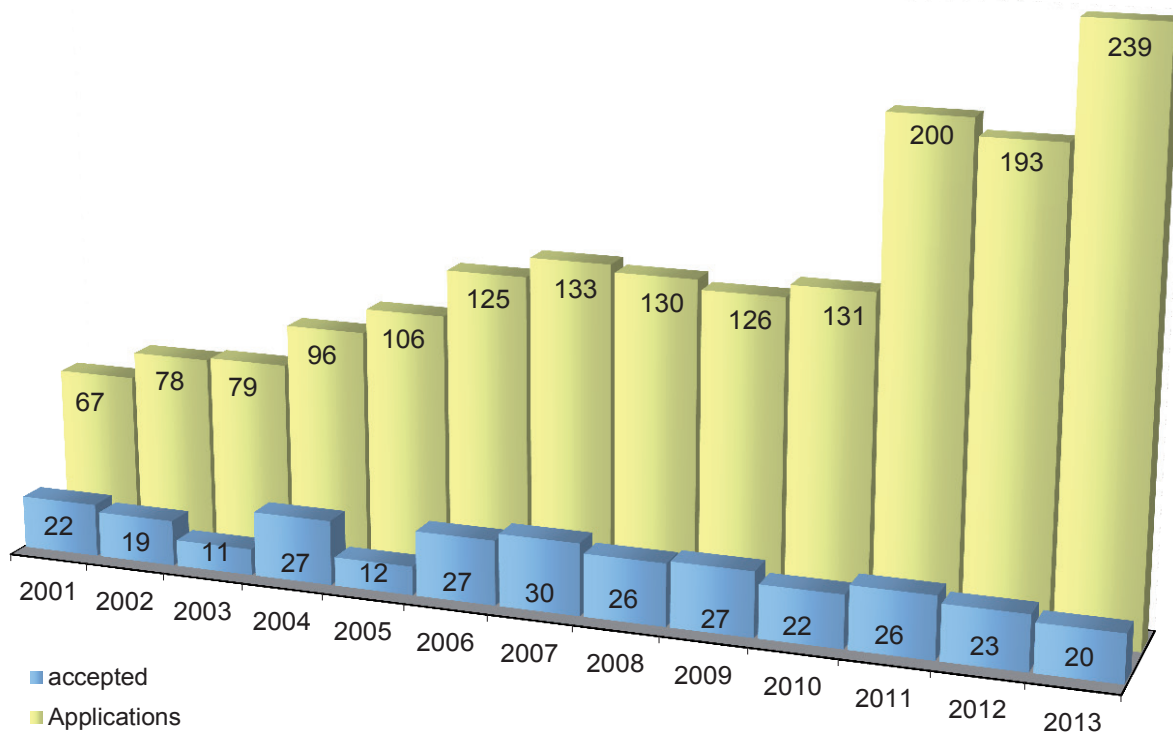


International Max-Planck Research School (IMPRS) for Astrophysics

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

Southern Observatory (ESO). In the academic year 2013 a total of 85 students took part in the program, thereof 33 at the MPE. In the year 2013, 239 students applied for the year 2013, 20 were accepted (up to May 2014).

IMPRS Applications since 2001



Summary of annual applications for the IMPRS program in Garching. Since its start in 2001 a total of 1703 students applied, 292 were accepted.

PR Work

In July 2013 MPE celebrated its 50th anniversary by several commemorative events. In October 2013 we organized an "Open House" which attracted about 2000 visitors. Further public outreach activities in 2013 were: 32 public talks by MPE scientists, 11 press releases on scientific results, 16 general news (scientific, prizes, awards), 22 guided tours through the institute (mainly

scientifically oriented school classes), supervising 25 internships of high school students (1 - 2 weeks) and 4 university students (4 - 8 weeks), and 50 girls were introduced to MPE and its science via the federal initiative "Girls' Day" in April. More information about the PR work at MPE can be found at:

<http://www.mpe.mpg.de/2557/public-outreach>

Project-Groups

(Project Manager underlined)

Infrared- and Submillimeter-Astronomy

Deputies to the Director of the Group:
Lutz, Tacconi.

ERIS

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

GRAVITY

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

Herschel-PACS

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

KMOS

Agudo Berbel, Davies, Förster Schreiber, Wiezorrek.

LBT Argos

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

LBT LUCI

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

MICADO

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

SPICA-SAFARI

Barl, Geis, Poglitsch, Raab, Schubert.

Galaktisches Zentrum

Eisenhauer, Fritz, Genzel, Gillessen, Ott, Pfuhl.

Galaxienkerne

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

Galaxien bei hoher Rotverschiebung

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

Sternentstehung

Bruderer, Fedele, Karska, van Dishoeck.

High-Energy Astrophysics

Athena

Becker, Boller, Burkert, Burwitz, Eder, Freyberg, Friedrich, Haberl, Merloni, Nandra, Predehl, A. Rau, Schaller, Schopper, Strüder, Trümper, Weidenspointner, Winter.

CAST

Bräuninger, Strüder.

Chandra

Burwitz, Predehl.

eROSITA

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

ROSAT

Haberl.

Swift

Greiner, Rau, Schady.

XMM-Newton

Boller, Brunner, Dennerl, Freyberg, Haberl, Hartner, Meidinger, Predehl, Strüder, Trümper.

Fermi

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

GROND

Elliot, Greiner, Schady, Schrey, Sudilovsky.

INTEGRAL

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

MXT-SVOM

Meidinger, Strüder.

OPTIMA

A. Rau, Schrey, Steinle.

4MOST

Böhringer, Boller, Dwelly, Merloni.

Aktive Galaxien

Boller, Brightman, Merloni, Nandra.

Clusters of Galaxies

Böhringer, Chou, Holland, Nastasi, Verdugo, Weißmann,

Ziparo.
Cosmic Rays
Strong.

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

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

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

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

Virtual Observatories
Voges

Theory und Complex Plasmas

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

GEC-Labor
Chauduri, Du, Morfill, Nosenko, Pustyl'nik, Rubin-Zuzic, H. Thomas, Wörner.

Hochfeld-Labor
Morfill, Tarantik, H. Thomas.

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

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

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

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

Praktikumsversuch "Plasmakristall"

Heidemann, Kretschmer, Morfill, Thoma.

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

ERC Grant
Avvisati, Ivlev, Morfill, Röcker, Zhdanov.

Nichtlineare Dynamik, Komplexe Systeme
Aschenbrenner, Bauer, Bunk, Modest, Monetti, Müller, Räh, Rosmanith, Sidorenko.

Optical and Interpretative Astronomy

EUCLID
Bender, Grupp, Saglia.

KMOS
Bender, Saglia.

MICADO
Bender, Saglia, Wilman.

PanSTARRS
Bender, Hopp, Phleps, Saglia, Wilman.

Galaxy Dynamics
Bender, Gerhard, Saglia.

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

Stellare Populationen und Galaxienentstehung
Bender, Hopp, Saglia.

Teaching

IMPRS on Astrophysics (2013), Garching

Boller

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

LMU München

Becker

Advances in Astronomy (WS 12/13)

Doktorandenseminar über Aktuelle Themen aus der Astrophysik (WS 12/13, SS 13, WS 13/14)

Bender

Astronomisches Kolloquium (WS 12/13, SS 13, WS 13/14)

Astrophysikalisches Grundpraktikum (WS 12/13, SS 13, WS 13/14)

Forschungsprojekt Masterarbeit, Anleitung zum wissenschaftlichen Arbeiten (WS 12/13, SS 13, WS 13/14)

Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert, "Tools in modern astrophysics" (WS12/13, SS 13, WS 13/14)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert (WS 12/13, SS 13, WS 13/14)

Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert, "Tools in modern astrophysics" (WS 12/13, SS 13, WS 13/14)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert (WS 12/13, SS 13, WS 13/14)

Galaxies, Vorlesung (WS 12/13, SS 13, WS 13/14)

Ergänzung zur Vorlesung "Galaxies" (WS 12/13, SS 13, WS 13/14)

Projektseminar mit begleitendem Kolloquium "Extragalactic group seminar" (SS 13)

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

Projektseminar mit begleitenden Kolloquium "Galaxies" (WS 12/13, SS 13, WS 13/14)

Projektseminar mit begleitenden Kolloquium aus dem Bereich experimenteller Arbeiten und Instrumentenentwicklung in der Astronomie (WS 12/13, SS 13, WS 13/14)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich der Kosmologie, Anleitung zum Wissenschaftlichen Arbeiten (WS 12/13, SS13, WS 13/14)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich experimenteller Arbeiten, Anleitung zum wissenschaftlichen Arbeiten (WS12/13, SS 13, WS 13/14)

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

Ergänzung zur Vorlesung "Grundlagen der fortgeschrittenen Astrophysik" (WS 13/14)

Gillessen

Astrophysical seminar (WS 12/13)

Raeth

Complex Systems and Fundamentals of Nonlinear Data Analysis (WS 12/13, WS 13/14)

Technische Universität München

Eisenhauer

Einführung in die Astrophysik (WS 12/13, WS 13/14)

High Angular Resolution Astronomy: Telescopes, Adaptive Optics, Interferometry, and more (SS 13)

Goethe-Universität Frankfurt

Boller, Th.

Vertiefung zur Vorlesung Einführung in die Astrophysik (SS 2013)

Universität Giessen

Thoma

Physik in der Schwerelosigkeit (WS 12/13)

University of Bologna

Merloni

Formation And Cosmic Evolution Of Massive Black Holes (PhD School, SS 13)

University of Tokyo

Diehl

Lecture Series on "Nuclear Astrophysics" (WS 13)

Lehrerakademie Dillingen

Müller, T.

Astronomie, Sonnensystem und Kleinkörper (SS 13)

Organisation of Seminars / Conferences

Water in Star-forming Regions with Herschel, Kreuth (Ringberg castle), Germany, 16.-19.1.2013, Organisation: E.F. van Dishoeck.

Marseille Cosmology Conference -- Physical Processes of Galaxy Formation: Consensus and Challenges, Aix-en-Provence, France, 22.-26.7.2013, Organisation: A. Cattaneo, L. Tresse, M. Treyer, A. Blanchard, N. Bouché, F. Combes, N.M. Förster Schreiber, O. Lahav, R.C. Kennicutt, J. Kormendy, J. Peebles, A. Shapley, J. Silk, M. Steinmetz.

Dissecting Galaxies with 2D Wide-field Spectroscopy, Lijiang, China, 25.-29.3.2013, Organisation: L.C. Ho, R.C. Kennicutt, L. Hao, M.A. Bershad, S. Croom, E. Emshellem, N.M. Förster Schreiber, K. Gebhardt, C.L. Martin, S.F. Sánchez, R. Somerville, C. Tremonti.

MPA/MPE Workshop on Galaxy Evolution from high to low Redshift, Garching, Germany, 13.3.2013, Organisation: N.M. Förster Schreiber, T. Naab.

Galactic Winds Near and Far, Tegernsee, Germany, 2.-8.6.2013, Organisation: R. Davies, E. Sturm, R. Genzel, L. Tacconi, N. Förster Schreiber, D. Lutz, T. Heckman, R. Maiolino, N. Murray, A. Shapley, S. Veilleux.

Adaptive Optics for Extremely Large Telescopes 3, Florence, Italy, 26.-31.5.2013, Organisation: S. Esposito, Y. Clenet, T. Fusco, N. Hubin, J.-P. Veran, R. Davies, et al.

The Universe Explored by Herschel, Noordwijk, 15.-18.10.2013, Organisation: P. Barthel, J. Cernicharo, P. Encrenaz, J. Fischer, M. Griffin, P. Harvey, M. Harwit, F. Helmich, L. Metcalf, T. Phillips, G. Pilbratt, A. Poglitsch, L. Vigroux, C. Waelkens.

Black Hole (g)Astronomy - Exploring the different flavours of Accretion, Brindisi, Italy, 2.-6.9.2013, Organisation: F. Panessa, R. Goosman, A. Merloni.

eROSITA Consortium Meeting, Garching, Germany, 14.-16.10.2013, Organisation: P. Predehl, A. Merloni.

Seeking the Leading Actor on the Cosmic Stage: Gala-

xies vs Black Holes, Castellammare del Golfo, Sicily, Italy, 24.-28.6.2013, Organisation: A. Bongiorno, F. Fiore, N.Z. Scoville, R. Maiolino, M. Elvis, G. Fabbiano, L.J. Tacconi.

Herschel Calibration Workshop: Only the best data products for the Legacy Archive, ESA/ESAC, Madrid, Spain, 25.-27.3.2013, Organisation: A. Marston, T. Lim, B. Schulz, T. Müller, J. Blommaert, M. Nielbock, M. Olberg, M. Harwit, R. Moreno, M. Sanchez-Portal, B. Merin.

European Planetary Science: KBOs and Centaurs, latest results from space and groundbased telescopes Congress, London, United Kingdom, 8.-13.9.2013, Organisation: T. Müller, P. Santos-Sanz.

The Legacy of the Herschel Space Observatory, Tübingen, Germany, 24.-27.9.2013, Organisation: M. Nielbock, J. Eislöffel, R. Güsten, P. Hartogh, T. Henning, T. Müller, V. Ossenkopf, P. Schilke.

Heraeus Physikschule "Physik im Weltraum", Bad Honnef, Germany, 9.-13.9.2013, Organisation: P. Klar, M.H. Thoma.

Physical Processes in the Interstellar Medium, Garching (MPE), Germany, 21.-25.10.2013, Organisation: M. Schartmann, A. Burkert, A. Ballone, M. Behrendt, K. Fierlinger, F. Aharonian, B. Elmegreen, Th. Henning, S. Inutsuka, C. Jäger, R. Klessen, M. Krumholz, M. Mac Low, C. McKee, K. Menten, E. Ostriker, S. Wolf, E. Zweibel.

Energising the Interstellar Medium, Tübingen, 24.9.2013, Organisation: M. Krause, M. Schartmann.

Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth (Ringberg Castle), Germany, 18.-22.3.2013, Organisation: M. Schartmann, A. Burkert, Ch. Alig, A. Ballone, M. Behrendt, K. Fierlinger, M. Keppler, N. Konrad, M. Krause, P. Plewa, M. Beggelman, M. Elitzur, S. Gillessen, A. Loeb, A. Merloni, R. Murray-Clay, R. Sunyaev, J. Thomas.

Magnetosphere, Ionosphere and Thermosphere Forum, ISSI-BJ, Beijing, China, 30.10.-1.11.13, Organisation: Ch.Wang, B. Klecker, Y. Liu, A. Yau.

Publications

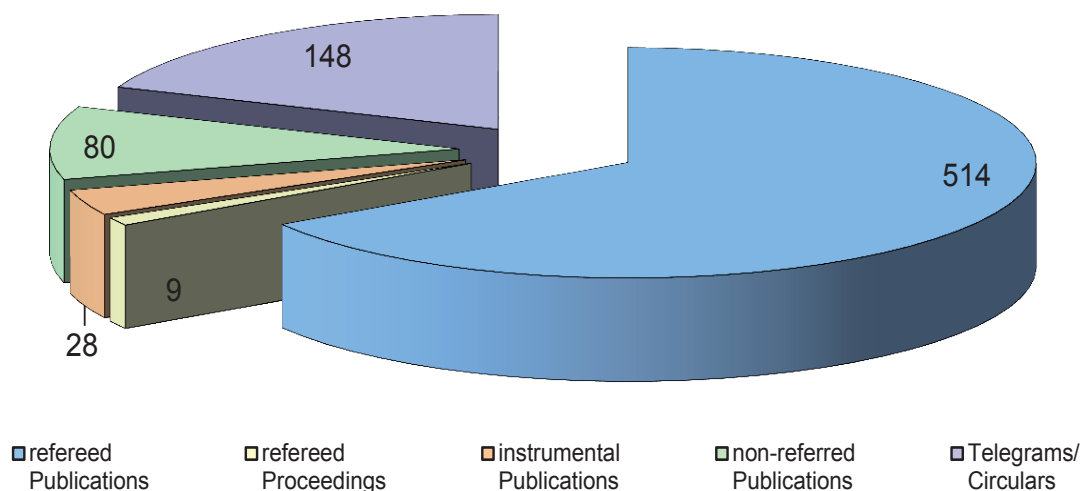
Here we present a tabular and graphical summary of our publication activities in 2013. The publications are counted by science group and publication type. The individual publications are listed consecutively.

Summary of MPE Publications in 2013

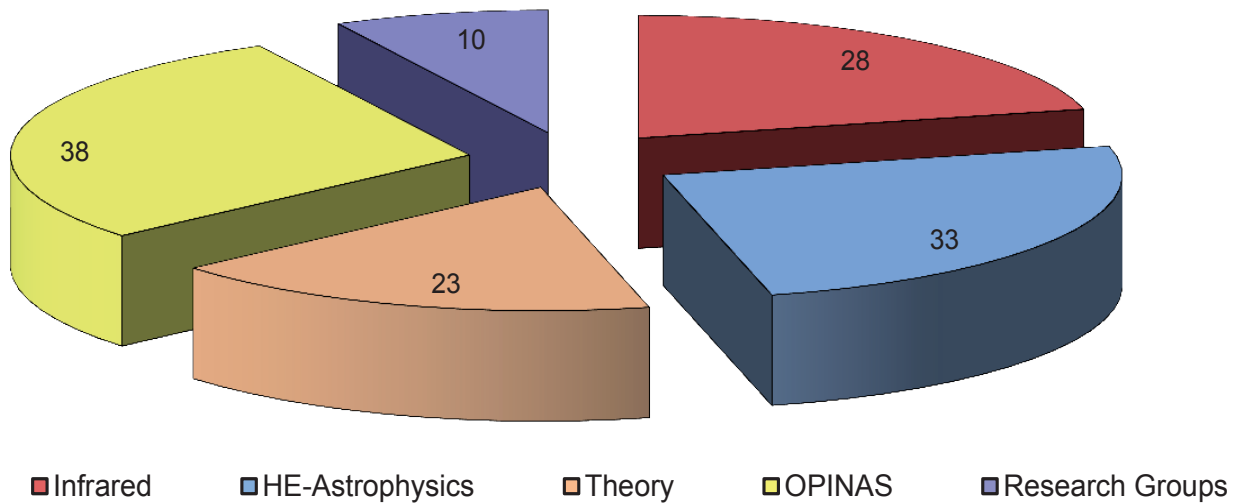
Science Group	refereed Publications	refereed Proceedings	Instrument. Publications	non-refereed Publications	Telegrams/Circulars	Talks	Poster
IR	28 (169)	1 (3)	0 (1)	4 (13)	2 (8)	86 (138)	12
HE Astrophysik	33 (166)	2 (2)	10 (22)	16 (42)	68 (138)	65 (111)	7
Theorie	23 (39)	0 (0)	0 (0)	0 (0)	0 (0)	10 (15)	2
OPINAS	38 (114)	1 (3)	5 (5)	7 (16)	0 (2)	33 (38)	1
Research-Groups	10 (26)	1 (1)	0 (0)	2 (9)	0 (0)	2 (2)	1
Total	132 (514)	5 (9)	15 (28)	29 (80)	70 (148)	196 (304)	23

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

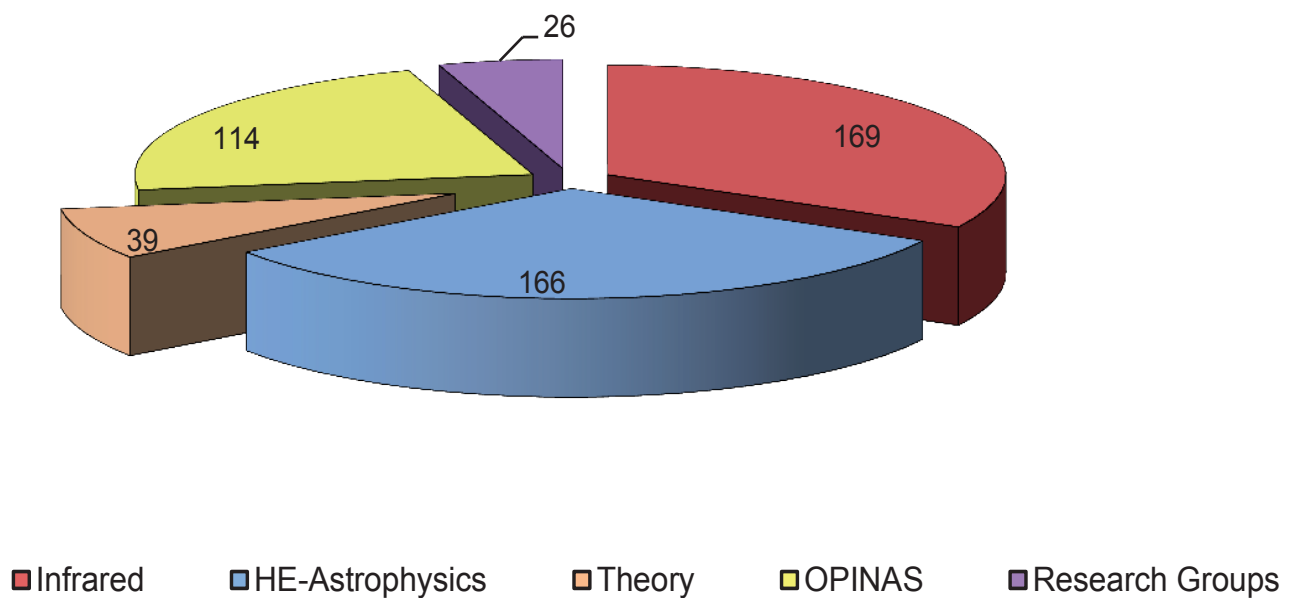
MPE Publications 2013 (by Type)



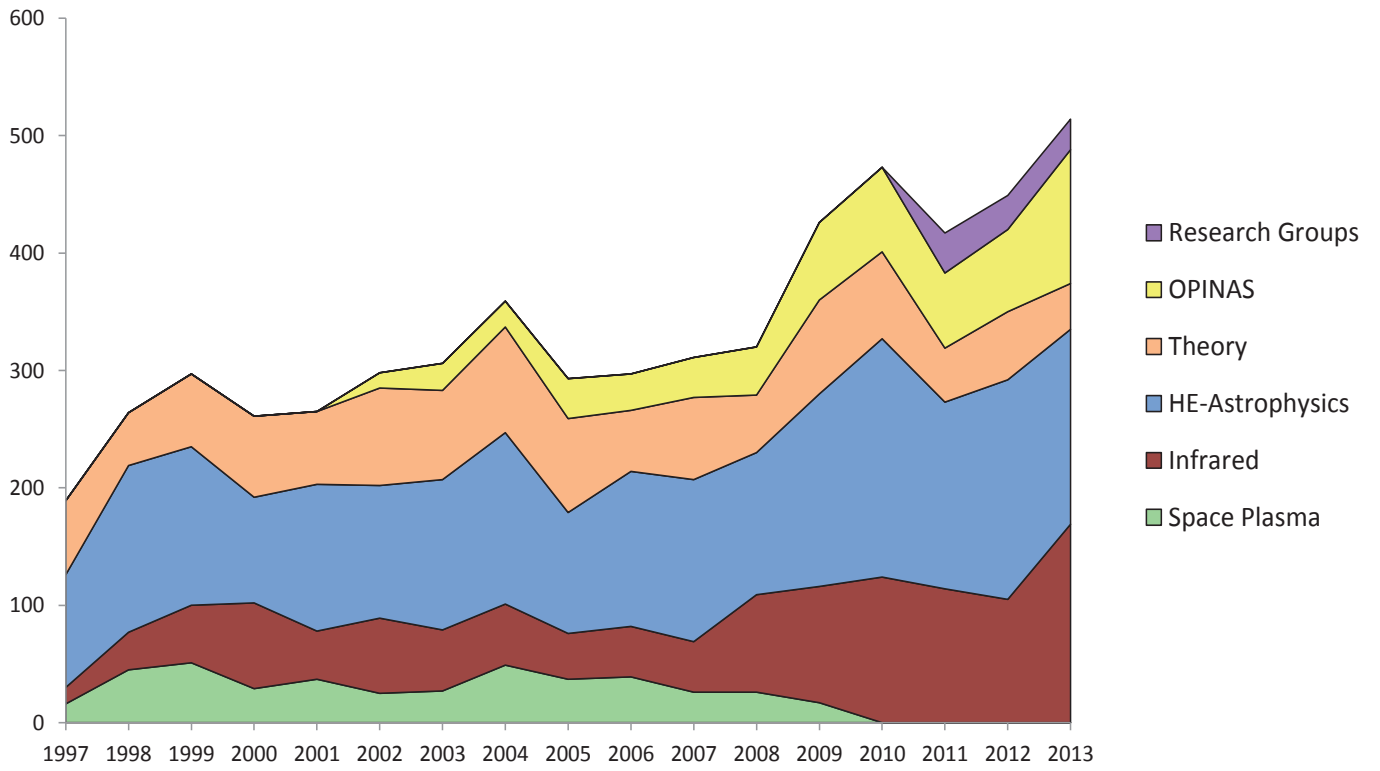
Refereed Publications with MPE first author in 2013 (by Science Group)



Total refereed MPE Publications in 2013 (by Science Group)



History of MPE Total Refereed Publications (by Science Group)



Refereed Publications

- Abdo, A.A., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: The Second Fermi Large Area Telescope Catalog of Gamma-Ray Pulsars. *Ap. J. Supp. Ser.* 208, 17 (2013).
- Aceituno, J., S.F. Sánchez, F. Grupp, J. Lillo, M. Hernán-Obispo, D. Benitez, L.M. Montoya, U. Thiele, S. Pedraz, D. Barrado, S. Dreizler and J. Bean: CAFE: Calar Alto Fiber-fed Échelle spectrograph. *Astron. Astrophys.* 552, A31 (2013).
- Ackermann, M., M. Ajello, A. Allafort, ..., A. von Kienlin, et al.: Determination of the Point-spread Function for the Fermi Large Area Telescope from On-orbit Data and Limits on Pair Halos of Active Galactic Nuclei. *Ap. J.* 765, 54 (2013).
- Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: Detection of the Characteristic Pion-Decay Signature in Supernova Remnants. *Science* 339, 807-811 (2013).
- Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: The First Fermi-LAT Catalog of Sources above 10 GeV. *Ap. J. Supp. Ser.* 209, 34 (2013).
- Ackermann, M., M. Ajello, K. Asano, ..., J. Greiner, ..., D. Gruber, ..., A. von Kienlin, et al.: Multiwavelength Observations of GRB 110731A: GeV Emission from Onset to Afterglow. *Ap. J.* 763, 71 (2013).
- Ackermann, M., M. Ajello, K. Asano, ..., D. Gruber, A. von Kienlin, et al.: The First Fermi-LAT Gamma-Ray Burst Catalog. *Ap. J. Supp. Ser.* 209, 11 (2013).
- Agarwal, B., A.J. Davis, S. Khochfar, P. Natarajan and J.S. Dunlop: Unravelling obese black holes in the first galaxies. *Mon. Not. R. Astron. Soc.* 432, 3438-3444 (2013).
- Aguirre, P., A.J. Baker, F. Menanteau, D. Lutz and L.J. Tacconi: High-resolution Near-infrared Imaging of Submillimeter Galaxies. *Ap. J.* 768, 164 (2013).
- Alig, C., M. Schartmann, A. Burkert and K. Dolag: Numerical Simulations of the Possible Origin of the Two Sub-parsec Scale and Counterrotating Stellar Disks around Sgr A*. *Ap. J.* 771, 119 (2013).
- Allafort, A., L. Baldini, J. Ballet, ..., A.W. Strong, et al.: PSR J2021+4026 in the Gamma Cygni Region: The First Variable γ -Ray Pulsar Seen by the Fermi LAT. *Ap. J. Lett.* 777, L2 (2013).
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- Appleby, S.A., E.V. Linder and J. Weller: Cluster probes of dark energy clustering. *Physical Review D* 88, 043526 (2013).
- Appleton, P.N., P. Guillard, F. Boulanger, M.E. Cluver, P. Ogle, E. Falgarone, G. Pineaudes Forêts, E. O'Sullivan, P.-A. Duc, S. Gallagher, Y. Gao, T. Jarrett, I. Konstantopoulos, U. Lisenfeld, S. Lord, N. Lu, B.W. Peterson, C. Struck, E. Sturm, R. Tufts, I. Valchanov, P. van der Werf and K.C. Xu: Shock-enhanced C+ Emission and the Detection of H₂O from the Stephan's Quintet Group-wide Shock Using Herschel. *Ap. J.* 777, 66 (2013).
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Poster

- Bandara, K. et al.: KMOS3D Survey: Evolution of Spatially Resolved Kinematics of High- z Galaxies, Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.
- Berta, S. et al.: The molecular gas mass function of star forming galaxies since $z\sim 3$, Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.
- Berta, S. et al.: The molecular gas mass function of star forming galaxies since $z\sim 3$, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Brightman, M. et al.: Compton thick active galactic nuclei in Chandra surveys, IAU Symposium 304: Multiwavelength AGN surveys and studies, Yerevan, Armenia, October 2013.
- Contursi, A. et al.: Herschel-PACS spectro-photometer observations of Lyman Break Analogs (LBAs), The Universe Explored by Herschel, ESA/ESTEC, Noordwijk, The Netherlands, October 2013.
- Elliott, J. et al.: The solar-metallicity of the host galaxy of GRB 110918A, Huntsville Gamma Ray Burst Symposium, Nashville, USA, April 2013.
- Fedele, D., S. Bruderer, E.F. van Dishoeck, G. Meeus and N. Evans: Herschel Observations of Gas in Protoplanetary Disks, Protostars and Planets VI, Heidelberg, Germany, July 2013.
- Fossati, M. et al.: Nurture builds-up the Hubble sequence in the Local and Coma Superclusters, The origin of the Hubble Sequence, Astrophysical Institute of Paris, Paris, France, June 2013.
- Fürmetz, M.: Heat Pipe development for the X-ray telescope eROSITA, International Topical Team Workshop Two-phase systems for ground and space applications, Bremen, Germany, September 2013.
- Günther, B. et al.: Electrical Characterization of Different DEPFET Designs on Die Level, 15th International Workshop on Radiation Imaging Detectors, Paris, France, June 2013.
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- Lang, P. et al.: Early Evolution of $z\sim 2$ Galaxies Witnessing the Growth of Bulges and Disks, Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.
- Müller, T. et al.: 2005 YU55: Herschel's fastest, closest and most hazardous target, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
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- Menzel, M.-L. et al.: A BOSS Ancillary Survey of X-ray AGN in the XMM-LSS, Black Hole (g)Astronomy Conference, Brindisi, Italy, September 2013.
- Mohr, D.P. et al.: PlasmaLab — Next Generation Plasma Chambers For The ISS, 40th EPS Conference on Plasma Physics, Espoo, Finland, July 2013.
- Murillo, N.M. et al.: Testing Protostellar Formation models: VLA1623A's disk and envelope unravelled with ALMA, Protostars and Planets VI, Heidelberg, Germany, July 2013.
- Prinz, T. et al.: Supernova Remnant Candidates in the ROSAT All-Sky Survey, The Fast and the Furious: Energetic Phenomena in Isolated Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants, Madrid, Spain, May 2013.
- Raab, W. et al.: Status of ARGOS - The Laser Guide Star System for the LBT, Third AO for ELT Conference, Florence, Italy, May 2013.
- Raeth, C. et al.: Dynamic Nonlinearities in Financial Time Series, DPG Frühjahrstagung, Regensburg, Germany, March 2013.
- Schartmann, M. et al.: Hydrodynamical simulations of G2 interpreted as a diffuse gas cloud, IAU Symposium 303 "The Galactic Centre: Feeding and Feedback in a Normal Galactic Nucleus", Santa Fe (NM), USA, October 2013.
- von Kienlin, A. et al.: The Fermi GBM Gamma-Ray Burst and Spectral Catalog: Year Three & Four, Huntsville Gamma Ray Burst Symposium: GRB 2013, Nashville, Tennessee, USA, April 2013.

Talks

- Bandara, K.: KMOS at the VLT: A New Era in IFU Studies of Galaxies, contributed talk, The Emergence of Disk Galaxies, Cape Town, South Africa, November 2013.
- Becker, W.: Deep Space Navigation With Pulsars, colloquium, University of California, San Diego, USA, November 2013.
- Becker, W.: Deep Space Navigation with Pulsars, contributed talk, 4th International Colloquium Scientific and Fundamental Aspects of the Galileo Programme, Prague, Czech Republic, December 2013.
- Becker, W.: Neue Wege der Satellitennavigation: Pulsare als kosmische Wegweiser, public talk, Faszinierendes Weltall: Förderkreis Planetarium Göttingen, Göttingen, Germany, March 2013.
- Becker, W.: Neue Wege der Satellitennavigation: Pulsare als kosmische Wegweiser, public talk, Max-Planck-Institut für Radioastronomie, Bad Münstereifel, Germany, July 2013.
- Becker, W.: Neue Wege der Satellitennavigation: Pulsare als kosmische Wegweiser, public talk, Physik Modern; Ludwig-Maximilians Universität München, Munich, Germany, January 2014.
- Becker, W.: Rotation Powered Pulsars, Supernova Remnants & eROSITA, invited talk, eROSITA Compact Object SWG Meeting, Potsdam, Germany, June 2013.
- Becker, W.: The IMPRS on Astrophysics, public talk, Max-Planck-Gesellschaft, Munich, Germany, July 2013.
- Becker, W.: eROSITA: Status and Scientific Prospects, colloquium, Columbia University, New York, USA, November 2013.
- Becker, W.: eROSITA: Status and Scientific Prospects, colloquium, San Diego State University, San Diego, USA, November 2013.
- Becker, W.: eROSITA: Status and its Scientific Prospects for Neutron Stars and Supernova Remnants, contributed talk, The Fast and the Furious: Energetic Phenomena in Isolated Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants, Madrid, Spain, May 2013.
- Bender, R.: On the role of major versus minor mergers in the formation of massive ellipticals, invited talk, Hot topics in Elliptical Galaxies, Venice, Italy, October 2013.
- Berta, S.: Infrared Surveys, contributed talk, A Panchromatic View of Galaxy Evolution 30 Years after IRAS, Paphos, Cyprus, June 2013.
- Blind, N.: Integrated micro-spectrographs in the era of Extremely Large Telescopes, colloquium, IPAG weekly seminar, Grenoble, France, January 2013.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, 2nd Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics, Havana, Cuba, May 2013.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, 3rd International Symposium on Strong Electromagnetic Fields and Neutron Stars, Varadero, Cuba, May 2013.
- Boller, Th.: 20 years of X-raying Narrow-Line Seyfert 1 galaxies: probing the extreme of Seyfert activity, invited talk, Frascati Workshop 2013, Palermo, Italy, May 2013.
- Boller, Th.: Anfang und Ende des Universums, public talk, Jahreskongress der Deutschen Schlaforschung und Schlafmedizin, Wiesbaden, Germany, October 2013.
- Boller, Th.: Anfang und Ende des Universums, public talk, Tag der offenen Tür, MPE Garching, Germany, October 2013.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, IBWS Karlovy Vary 2013, Karlovy Vary, Czech Republic, April 2012.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, Symposium on "Nuclear Physics: Presence and Future", Boppard, Germany, June 2013.
- Boller, Th.: Der Stern von Bethlehem aus astronomischer Sicht, public talk, Evangelisch-Lutherische Kirchengemeinde Apostelkirche und Petruskirche München-Solln, Munich, Germany, December 2013.
- Boller, Th.: Experimental tests of GR theories with GRAVITY and Athena+ in the Galactic Centre, contributed talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Schloss Ringberg, Germany, March 2013.
- Boller, Th.: Observational test of the pc-theory using Galactic Binaries, the Galactic Center, and bright AGN, contributed talk, The physics of accretion on compact objects: a multi-messenger approach, Turku, Finland, July 2013.
- Boller, Th.: Ray-tracing simulations as GR tests in the GC and M87, invited talk, The Galactic Center Black Hole Laboratory, Granada, Spain, November 2013.
- Boller, Th.: The public telescope: requirements for universities, invited talk, The public telescope, Haus der Astronomie Heidelberg, Heidelberg, Germany, January 2013.
- Buschkamp, P.: LUCI on sky (with diamonds), public talk, Nerd Nite Munich, Munich, Germany, August 2013.
- Collmar, W.: The MeV sky during the COMPTEL mission, invited talk, Scientific Perspectives in the MeV domain, Paris, France, January 2013.
- Collmar, W.: Das MPE und seine Wissenschaft, public talk, MPE Girls' Day 2013, Garching, Germany, April 2013.
- Collmar, W.: The Microquasar LS 5039 at MeV Energies, invited talk, Variable Galactic Gamma-Ray Sources (II), Barcelona, Spain, April 2013.
- Collmar, W.: The Microquasar LS 5039 at MeV Energies,

- contributed talk, Annual Meeting 2013 of the Astronomische Gesellschaft, Tübingen, Germany, September 2013.
- Collmar, W.: Erde, Sonne, Mond und Sterne: Eine Reise ins Weltall, public talk, Montessori Schule München, Munich, Germany, December 2013.
- Davies, R.: Does Star Formation Play a Decisive Role in Feeding AGN?, colloquium, University of Trieste, Trieste, Italy, February 2013.
- Davies, R.: Imminent Understanding of the Structure of Nearby AGN from IFUs, invited talk, Multiwavelength AGN Surveys and Studies, Yerevan, Armenia, November 2013.
- Davies, R.: MICADO, The E-ELT First Light Imager, invited talk, Shaping E-ELT Science and Instrumentation, Ismaning, Germany, February 2013.
- Davies, R.: New Insights on Post-Starbursts around Local AGN, invited talk, Gas Dynamics and Star Formation in Galactic Nuclei, Tegernsee, Germany, March 2013.
- De Marco, B.: Spectral/timing properties of AGN, invited talk, Spectral timing properties of accreting objects: from X-ray binaries to AGN, Madrid, Spain, May 2013.
- De Marco, B.: Soft X-ray lags in supermassive black holes, invited talk, Prague Synergy 2013: Accreting relativistic compact objects and their environment, Prague, Czech Republic, November 2013.
- De Marco, B.: Spectral/timing properties of AGN, colloquium, Deutsche Elektronen-Synchrotron (DESY), Hamburg, Germany, November 2013.
- De Marco, B.: Time lags in large samples of AGN, invited talk, From the Dolomites to the event horizon: sledging down the black hole potential well, Sexten, Italy, July 2013.
- Dennerl, K.: A 3D beaming model for the quiescent emission of accreting magnetars, contributed talk, Explosive Transients: Lighthouses of the Universe, Santorini, Greece, September 2013.
- Diehl, R.: Kreativität in der Astrophysik-Forschung, invited talk, Institut für Psychoanalyse des Rheinlands: "Workshop Schöpfungsgeschichten", Köln, Germany, March 2013.
- Diehl, R.: Cosmic Gamma-Rays: Measuring Radioactive Isotopes in the Universe, invited talk, 10th Russbach School on Nuclear Astrophysics, Russbach, Austria, March 2013.
- Diehl, R.: Radioactive Nuclei from Massive Stars, contributed talk, EuroGenesis Workshop: "Observational Constraints on Massive Stars and Supernovae", Garching, Germany, March 2013.
- Diehl, R.: Ge Detectors in Space: Ten years of INTEGRAL, invited talk, Ge Detectors in Physical Sciences, Tübingen, Germany, April 2013.
- Diehl, R.: Studying nucleosynthesis ejecta in the Cygnus region, invited talk, Vatican Observatory Workshop: "Cygnus OB2", Albano Laziale, Italy, May 2013.
- Diehl, R.: Cosmic nucleosynthesis observations with INTEGRAL, contributed talk, Nuclear Physics in Astrophysics, Lisboa, Portugal, May 2013.
- Diehl, R.: The Galactic Environment of the Solar System: Nucleosynthesis Aspects, invited talk, College Gordon Conference: "Origins of the Solar System", Mount Holyoke, USA, June 2013.
- Diehl, R.: Studies of the ISM with high-energy emissions, invited talk, Universe Cluster Research Day – Research Area-F, Garching, Germany, July 2013.
- Diehl, R.: Large-Scale Asymmetry in the Galaxy's Hot-gas Blowout, contributed talk, Jahrestagung Deutsche Astronomische Gesellschaft, Tübingen, Germany, September 2013.
- Diehl, R.: "Nucleosynthesis ejecta: Lessons from ^{44}Ti , ^{26}Al , and ^{60}Fe ", invited talk, INTEGRAL Science Workshop, Rome, Italy, October 2013.
- Diehl, R.: Astrophysics with gamma-rays from cosmic nuclei, colloquium, Astrophysics Colloquium University of Tokyo, Tokyo, Japan, November 2013.
- Diehl, R.: Introduction to Observational Nuclear Astrophysics (Lecture Series), invited talk, University of Tokyo, Tokyo, Japan, November 2013.
- Diehl, R.: INTEGRAL Gamma-Ray Line Astronomy, invited talk, National Astronomical Observatory of Japan: Asian Winter School on Nuclear Astrophysics, Tokyo, Japan, November 2013.
- Diehl, R.: Cosmic radioactivity and INTEGRAL results, invited talk, OMEG Conference, Tsukuba, Japan, November 2013.
- Diehl, R.: Astronomy and Nuclear Astrophysics, contributed talk, German Nuclear Astrophysics Community Meeting, Darmstadt, Germany, December 2013.
- Diehl, R.: Astroparticle Committee and Nuclear Astrophysics, invited talk, Jahrestagung Fachverband Hadronen und Kerne, Bad Honnef, Germany, December 2013.
- Dwelly, T.: SPIDERS (in brief), contributed talk, SDSS-eBOSS targeting workshop, Sauverny Observatory, Geneva, Switzerland, July 2013.
- Eisenhauer, F.: Exploring physics close to the Galactic Center black hole with infrared and submillimeter interferometry, invited talk, DPG-Frühjahrstagung, Jena, Germany, February 2013.
- Eisenhauer, F.: Infrared Interferometry of the Galactic Center Black Hole with GRAVITY, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.
- Eisenhauer, F.: Testing general relativity with submm and infrared interferometry of Sgr A*, Strong Gravity beyond GR: from theory to observations, invited talk, Instituto Superior Técnico, Lisbon, Portugal, March 2013.
- Eisenhauer, F.: The Galactic Center Black Hole - Approaching the Event Horizon, colloquium, Colloquium of the Physics Department of Instituto Superior Técnico, Lisbon, Portugal, March 2013.
- Eisenhauer, F.: The Galactic Center Black Hole - Approaching the Event Horizon, colloquium, Physikalisches Kolloquium, Universität Bremen, Bremen, Germany, December 2013.

ber 2013.

Elliott, J.: Simultaneous optical/gamma-ray observations of GRB 121217's prompt emission, contributed talk, Huntsville Gamma Ray Burst Symposium, Nashville, USA, April 2013.

Elliott, J.: The solar-metallicity of the host galaxy of GRB 110918A, contributed talk, Galaxies Meet GRBs at Cabo de Gata, Cabo de Gata, Spain, September 2013.

Elliott, J.: Using gamma-ray bursts as tools, colloquium, Royal Observatory of Edinburgh, Edinburgh, United Kingdom, November 2013.

Erwin, P.: Imfit: A New 2D Galaxy Decomposition Code, colloquium, Instituto de Astrofisica de Canarias, La Laguna, Tenerife, Spain, December 2013.

Erwin, P.: Imfit: A New 2D Galaxy Decomposition Code, contributed talk, Deconstructing Galaxies: Structure and Morphology in the Era of Large Surveys, Santiago, Chile, November 2013.

Erwin, P.: Measuring Bars, invited talk, The Role of Bars in Galaxy Evolution, Granada, Spain, May 2013.

Förster Schreiber, N.M.: AGN-driven outflows in massive $z \sim 2$ star-forming galaxies and the connection to quenching, invited talk, Hot Topics on Elliptical Galaxies, Venice, Italy, October 2013.

Förster Schreiber, N.M.: Disc growth since $z \sim 2$ from resolved kinematics, structure, and star formation properties, invited talk, 9th Marseille Cosmology conference – Physical processes of galaxy formation: consensus and challenges, Aix-en-Provence, France, July 2013.

Förster Schreiber, N.M.: KMOS3D, invited talk, Galaxy formation from $z=5$ to $z=0$, Leiden, The Netherlands, May 2013.

Förster Schreiber, N.M.: Kpc-scale kinematics, star formation, and outflows at $z \sim 2$, contributed talk, MPA/MPE Workshop on Galaxy Evolution from high to low Redshift, Garching, Germany, March 2013.

Förster Schreiber, N.M.: Nuclear AGN-driven outflows in massive $z \sim 2$ star-forming galaxies, invited talk, Galactic winds near and far, Kreuth, Ringberg, Germany, June 2013.

Fedele, D.: Gas in protoplanetary disks with Herschel: probing the disk atmosphere, contributed talk, From Stars to Life, Gainesville, Florida, USA, April 2013.

Fedele, D.: Reservoir for planets atmospheres, contributed talk, SAFARI consortium meeting, Wien, Austria, September 2013.

Fedele, D.: The atmosphere of protoplanetary disks, contributed talk, Annual Meeting of the German Astronomical Society, Tübingen, Germany, September 2013.

Fritz, T.K.: Nuclear Cluster of the Milky Way, contributed talk, The Galactic Center: Feeding and Feedback in a Normal Galactic Nucleus, Santa Fe, USA, October 2013.

Fritz, T.K.: The nuclear cluster of the Milky Way, contributed talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.

Genzel, R.: Summary of galaxy formation and evolution, invited talk, Herschel Conference "The Universe Explored by Herschel", ESTEC, Noordwijk, The Netherlands, October 2013.

Genzel, R.: From starbursts to star forming galaxies at the peak of the galaxy formation epoch, invited talk, Winter School in Theoretical Physics "Early Galaxy Formation", Jerusalem, Israel, January 2013.

Genzel, R.: Galaxy kinematics, gas, feedback, and metallicity, invited talk, Winter School in Theoretical Physics "Early Galaxy Formation", Jerusalem, Israel, January 2013.

Genzel, R.: Gas and star formation in the local Universe, invited talk, Winter School in Theoretical Physics "Early Galaxy Formation", Jerusalem, Israel, January 2013.

Genzel, R.: Massereiche Schwarze Löcher und Galaxien, colloquium, University of Cologne, Cologne, Germany, April 2013.

Genzel, R.: Massereiche Schwarze Löcher und die Entwicklung von Galaxien, colloquium, HE Heraeus Physikschule „Physik im Weltraum“, DPG (German Physical Society), Bad Honnef, Germany, September 2013.

Genzel, R.: Massive Schwarze Löcher und Galaxien, colloquium, Max-von-Laue Colloquium, Humboldt University, Berlin, Germany, April 2013.

Genzel, R.: Massive black holes and galaxies, colloquium, University of Frankfurt, Frankfurt, Germany, April 2013.

Genzel, R.: Massive star forming galaxies at the peak of the galaxy formation epoch, invited talk, 75 Years Anniversary Conference "The Origin of the Hubble Sequence", Paris, France, June 2013.

Genzel, R.: Nuclear outflows and morphological quenching in massive $z \sim 2$ star forming disks, invited talk, Galaxy Formation Workshop, University of California, Santa Cruz, Santa Cruz, USA, August 2013.

Genzel, R.: The Black Hole in the center of the Milky Way, invited talk, Kerr Conference celebrating the 50th anniversary of the Kerr metric, Albert Einstein Institute (AEI), Golm, Germany, July 2013.

Genzel, R.: The Massive Black Hole at the center of the Milky Way, colloquium, Racah Institute, Jerusalem University, Jerusalem, Israel, January 2013.

Genzel, R.: The formation and evolution of massive star forming disks, colloquium, Joint Astronomy Colloquium, University of Heidelberg, Heidelberg, Germany, December 2013.

Genzel, R.: The galactic centre environment, invited talk, Workshop „Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei“, Kreuth, Ringberg Castle, Kreuth, Germany, March 2013.

Genzel, R.: The gas cloud G2 falling towards Sgr A*: status of observations and theory, colloquium, Lunch Meeting, University of California, Berkeley, USA, February 2013.

Genzel, R.: The significance of the star formation sequence, colloquium, Galform Seminar, University of California, Berkeley, Berkeley, USA, January 2013.

Gerhard, O.E.: Dark Matter and Dynamics in Elliptical Galaxy Halos, invited talk, The PNS: Future Projects and Ideas, Lorentz Center, Leiden, The Netherlands, February 2013.

Gerhard, O.E.: The Origin of the Galactic Bulge, invited talk, Galaxy Evolution from High to Low Redshift, Garching, Germany, March 2013.

Gerhard, O.E.: Bulge Formation Models, invited talk, 'Resolved Stellar Populations in the Galactic Bulge and the Magellanic Clouds, in occasion of CTIO's 50th birthday, La Serena, Chile, May 2013.

Gerhard, O.E.: Dynamics and Origin of the Galactic Bulge, invited talk, The Role of Bars in Galaxy Evolution, Granada, Spain, May 2013.

Gerhard, O.E.: Stellar Populations and Dynamical Probes of the Outer Halos of Early-Type Galaxies, invited talk, The Physical Link between Galaxies and their Halos, Garching, Germany, June 2013.

Gerhard, O.E., Inner Milky Way Dynamics at MPE, invited talk, Excellence Cluster Research Area F Science Day, Garching, Germany, July 2013.

Gerhard, O.E.: The Structure of Bulges in Spiral Galaxies, invited talk, Structure and Dynamics of Disk Galaxies, Petit Jean Mountain, Arkansas, USA, August 2013.

Gerhard, O.E.: Dynamics of the Milky Way, invited lecture series, "GAIA-ITN School", Puerto de la Cruz, Tenerife, Spain, September 2013.

Gerhard, O.E.: The GAIA Space Mission and the Origin of the Milky Way, invited lecture, "Physics in Space" Heraeus School, Bad Honnef, Germany, September 2013.

Gerhard, O.E.: Dynamics of the Galactic Bulge and Nuclear Star Cluster, colloquium, ICRAR, Perth, Australia, October 2013.

Gerhard, O.E.: The Galactic Bulge and Nuclear Star Cluster, colloquium, MSSO, Australian National University, Canberra, Australia, November 2013.

Gerhard, O.E.: Dynamical Modelling and M2M: The Milky Way's Box/Peanut Bulge, invited talk, 7th Korean Astrophysics Workshop on "Dynamics of Disk Galaxies", Seoul, Korea, October 2013.

Gerhard, O.E.: Stellar and Dark Matter Halos of Early-Type Galaxies, invited talk, Excellence Cluster Science Day, Garching, Germany, December 2013.

Gillessen, S.: Der Klang des Urknalls, public talk, Freimaurerloge Ingolstadt Theodor zur festen Burg, Ingolstadt, Germany, March 2013.

Gillessen, S.: Astrologie und Astronomie - Was ist Wissenschaft, public talk, EAA-Kolloquium, Munich, Germany, November 2013.

Gillessen, S.: Black Holes – Science Fiction or Reality?, public talk, IoA, Cambridge, UK, October 2013.

Gillessen, S.: Fatal Fate - A gas cloud on its way to the Galactic Center Black Hole, colloquium, IoA, Sackler Lecture, Cambridge, UK, October 2013.

Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße, public talk, 10. Lange Nacht der

Sterne, Dessau, Germany, September 2013.

Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße, public talk, Deutsches Museum / Exzellenzcluster Universe, Munich, Germany, October 2013.

Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße, public talk, LMU, Munich, Germany, May 2013.

Gillessen, S.: Himmlische Lichtspuren - Sternentanz um ein Schwarzes Loch, public talk, Forum Baucultur, Munich, Germany, April 2013.

Gillessen, S.: Observations of the gas cloud G2 in the Galactic Center, invited talk, IAU Symposium 303: The Galactic Center: Feeding and Feedback in a Normal Galactic Nucleus, Santa Fe, USA, October 2013.

Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, Astro-GR, Atlanta, US, November 2013.

Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, Black Hole (G)astronomy, Brindisi, Italy, September 2013.

Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, High Energy Tidal Disruption Events: Looking at the Future, Favignana, Italy, September 2013.

Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, MPA High Energy Seminar, Garching, Germany, July 2013.

Gillessen, S.: Schwarze Löcher – Science Fiction oder Realität, public talk, Planetarium Mannheim, Mannheim, Germany, December 2013.

Gillessen, S.: Stellar dynamics in the Galactic Center, contributed talk, MODEST-13, Almaty, Kasachstan, August 2013.

Gillessen, S.: The "Galactic Center" - a unique laboratory, colloquium, Uni Bonn, Bonn, Germany, December 2013.

Gillessen, S.: Watching a gas cloud disrupt on its way to Sgr A*, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg, Germany, March 2013.

Gillessen, S.: Watching in real-time how a gas cloud gets disrupted by Sgr A*, colloquium, Sterrewacht Leiden, Leiden, The Netherlands, April 2013.

Gillessen, S.: Watching in real-time how a gas cloud gets disrupted by Sgr A*, colloquium, Universidad Catolica, Santiago, Chile, April 2013.

Graciá Carpio, J.: Probing the ISM Properties of Galaxies through their FIR Fine-Structure Lines: The SHINING View, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.

Graciá Carpio, J.: The multi-phase wind of M82 as probed by Herschel-PACS, invited talk, Galactic Winds Near and Far, Kreuth, Ringberg castle, June 2013.

Graciá Carpio, J.: [CII] from nearby galaxies, invited talk, C+ as an Astronomical Tool, Leiden, The Netherlands, Fe-

bruary 2013.

Greiner, J.: GRBs: understanding their physics and using them as probes, colloquium, SifA Sydney, Sydney Australia, February 2013.

Greiner, J.: Science and Mission Concepts to study the Early Universe with GRBs, invited talk, Future Directions in the Study of Relativistic Jets. Skokloster, Sweden, August 2013.

Greiner, J.: GRB-SN connection: rate and missed opportunities, contributed talk, Supernovae and Gamma-Ray Bursts in Kyoto 2013, Kyoto, Japan, October 2013.

Haberl, F.: Supernova Remnants in the XMM-Newton Survey of the Small Magellanic Cloud, contributed talk, Astronomische Gesellschaft, Annual Meeting, Session Supernova Remnants, Tübingen, Germany, September 2013.

Haberl, F.: The Magnificent Seven: Nearby, Thermally Emitting, Isolated Neutron Stars, invited talk, The Fast and the Furious: Energetic Phenomena in Isolated Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants, Madrid, Spain, May 2013.

Haerendel, G.: Processes Governing the Entry of Plasma from Tail into Magnetosphere during Substorms, invited talk, Earth-Sun System Exploration 5 Conference, Kona (Hawaii), USA, January 2013.

Haerendel, G.: Processes Governing the Entry of Plasma from Tail into Magnetosphere during Substorms, invited talk, AGU Chapman Conference on Fundamental Properties and Processes of Magnetotails, Reykjavik, Iceland, March 2013.

Haerendel, G.: Open Questions Concerning the Onset of Magnetospheric Substorms, colloquium, Space Physics Seminar, UCLA, Los Angeles, USA, May 2013.

Haerendel, G.: Open Questions Concerning the Onset of Magnetospheric Substorms, colloquium, UCB-SSL Berkeley (Ca), Berkeley, USA, May 2013.

Haerendel, G.: M-I Coupling Scales and Energy Conversion Processes, invited talk, MPE-JUB Symposium on Auroral Physics and Plasma Boundary Analysis, MPE, Garching, Germany, July 2013.

Haerendel, G.: Open Questions Concerning the Onset of Magnetospheric Substorms, invited talk, MPE-JUB Symposium on Auroral Physics and Plasma Boundary Analysis, MPE, Garching, Germany, July 2013.

Haerendel, G.: Bariumwolkenexperimente – Der leuchtende Start des MPE, public talk, MPE 50 Years Anniversary Colloquium, MPE, Garching, Germany, July 2013.

Haerendel, G.: Das Polarlicht: Ein irdisches Kind des Sonnengottes, public talk, Planetarium Hamburg, Hamburg, Germany, September 2013.

Haerendel, G.: Auroral acceleration and magnetic fractures: How they are being sustained, invited talk, Royal Astronomical Society, London, UK October 2013.

Ivlev, A.V.: Complex plasmas: Similarity and complementarity to colloidal dispersions, invited talk, Russian Academy of Sciences, Moscow, Russia, October 2013.

Ivlev, A.V.: Non-conservative processes in complex (dus-

ty) plasmas, invited talk, 40th European Physical Society Conference on Plasma Physics, Helsinki, Finland, July 2013.

Kanbach, G.: Fast photometry with small telescopes, invited talk, Workshop "Observing techniques, instrumentation and science for metre-class telescopes", Slovak Academy of Science, Tatranska Lomnica, Slovakia, September 2013.

Kanbach, G.: Gamma-Astronomie und Kosmische Strahlung: Fenster in das hochenergetische Universum, public talk, Festkolloquium 50 Jahre MPE, Garching, Germany, July 2013.

Kanbach, G.: History and Status of MeV gamma ray astrophysics: guidelines for discussion and evaluation of future projects, invited talk, Workshop "Instrumental concepts in the MeV domain", PNHE (Programme national hautes energies), Paris, France, December 2013.

Kanbach, G.: Recent Results from the OPTIMA photopolarimeter, invited talk, Royal Astronomical Society Specialist Discussion Meeting, London, United Kingdom, April 2013.

Karska, A.: PACS results from the William Herschel line Legacy program (WILL), contributed talk, Water in star-forming regions with Herschel (WISH) team meeting, Leiden, The Netherlands, October 2013.

Khrapak, S.A.: Complex (dusty) plasmas: Particle charging and interparticle interactions, colloquium, PIIM, Aix-Marseille University, Marseille, France, December 2013.

Khrapak, S.A.: Dust particle charging in gas discharges, colloquium, Joint Institute for High Temperatures, Moscow, Russia, May 2013.

Khrapak, S.A.: Particle charging in complex (dusty) plasmas, invited talk, IV International Conference "Dusty Plasmas in Applications", Odessa, Ukraine, August 2013.

Khrapak, S.A.: Simple model for particle charging in drifting collisional plasmas, contributed talk, DPG Spring Meeting, Jena, Germany, March 2013.

Khrapak, S.A.: Studies of fluid-solid phase transitions in complex plasmas with PK3 Plus, contributed talk, International Symposium "Plasma crystals in space: A Russian-German" program, Moscow, Russia, October 2013.

Klecker, B.: Key techniques for in-situ measurements onboard the MIT spacecraft, invited talk, Magnetosphere, Ionosphere and Thermosphere Forum, ISSI-BJ, Beijing, China, October 2013.

Klecker, B.: Ionic charge states of energetic particles: a clue to their source and acceleration, colloquium, National Space Science Center, Beijing, China, November 2013.

Knappek, C.A.: Experimental study of crystallization processes in 2D complex plasmas, invited talk, 40th European Physical Society Conference on Plasma Physics, Espoo, Finland, July 2013.

Krause, M.: Jet-environment interactions in the Milky Way and other spiral galaxies, invited talk, Ringberg workshop: "Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei", Kreuth, Ringberg Castle, Germany, March 2013.

- Krause, M.: Massive star groups in the Milky Way and ISM feedback: X- and gamma-rays, invited talk, INTEGRAL workshop: "INTEGRAL's journey through the high energy sky", Rome, Italy, October 2013.
- Krause, M.: 10 years of INTEGRAL observations of the ^{26}Al decay line: Where do massive star ejecta go, which route do they take, and how long does it take them to get there?, contributed talk, EUROGENESIS collaboration meeting, Darmstadt, Germany, December 2013.
- Krause, M.: Superbubbles as a physical process in the ISM, contributed talk, conference: "Physical processes in the interstellar medium", Garching, Germany, October 2013.
- Krause, M.: Simulations of superbubble feedback, contributed talk, splinter session "Energizing the interstellar medium" at the annual meeting of the "Astronomische Gesellschaft", Tübingen, Germany, September 2013.
- Krause, M.: The basic morphologies resulting from the jet-environment interaction, contributed talk, splinter session "Astrophysical jets" at the annual meeting of the "Astronomische Gesellschaft", Tübingen, Germany, September 2013.
- Krause, M.: Interstellar medium dynamics and the formation of distinct stellar generations in globular clusters, contributed talk, EUROGENESIS meeting "Observational constraints on sources of nucleosynthesis", Garching, Germany, March 2013.
- Krause, M.: New insights from simulations of the jet-environment interaction, contributed talk, Symposium "Astronomy, Radio Sources & Society", Leiden, The Netherlands, June 2013.
- Kurk, J.: Spiders and webs, contributed talk, Astronomy, Radio Sources and Society - The Wonderful Century, Leiden, The Netherlands, June 2013.
- Lutz, D.: AGN and the Herschel picture of steady galaxy evolution and starbursts, contributed talk, Seeking the Leading Actor on the Cosmic Stage: Galaxies vs. Black Holes, Castellammare del Golfo, Italy, June 2013.
- Lutz, D.: Co-evolution of AGN and their hosts, contributed talk, FIRSED 2013, Amsterdam, The Netherlands, April 2013.
- Lutz, D.: Far-infrared galaxy evolution surveys with Herschel, invited talk, SPICA's new window on the cool universe, Tokyo, Japan, June 2013.
- Lutz, D.: From (U)LIRGs to main sequence: The PEP view of the evolution of infrared galaxies, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Lutz, D.: Herschel deep surveys, invited talk, Far-infrared emission as a window to study the formation of Galaxies, black holes and dust in the young universe, Kreuth, Ringberg Castle, Germany, May 2013.
- Müller, T.: Asteroid models: Towards asteroids as prime flux standards, contributed talk, Herschel Calibration Workshop: Only the best data products for the Legacy Archive, ESA/ESAC, Madrid, Spain, March 2013.
- Müller, T.: Combining occultation observations with thermal measurements: a powerful technique to characterise Centaurs and TNOs, contributed talk, European Planetary Science Congress, London, UK, September 2013.
- Müller, T.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, MPE, Garching, Germany, October 2013.
- Müller, T.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, Sternwarte Neumarkt, Neumarkt, Germany, November 2013.
- Müller, T.: Herschel's view on the cool TNOs, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Müller, T.: Infrared observations of small solar system bodies, colloquium, Seoul National University, Seoul, South Korea, May 2013.
- Müller, T.: TNOs are Cool! Highlights from the Herschel Key Programme, contributed talk, Waves and Particles: Multi-Messengers from the Universe, Tübingen, Germany, September 2013.
- Müller, T.: Thermophysical modelling of small bodies on basis of disk-integrated thermal measurements, invited talk, ISSI Thermal Emission Meeting, Bern, Switzerland, March 2013.
- Meidinger, N.: Focal plane detectors, contributed talk, XTP-GRAVITAS workshop, Beijing, China, June 2013.
- Meidinger, N.: Progress of the "X-ray CCD camera development" for the eROSITA telescope, contributed talk, SPIE Optics and Photonics, San Diego, USA, August 2013.
- Meidinger, N.: eROSITA detectors, contributed talk, eROSITA consortium meeting, Garching, Germany, October 2013.
- Menzel, M.-L.: A BOSS Ancillary of X-ray AGN in the XMM-LSS, contributed talk, BOSS-SDSS Meeting, Lawrence Berkeley National Laboratory, Berkeley, California, USA, December 2013.
- Merloni, A.: Science with eROSITA all-sky surveys: an outlook, colloquium, INAF-Bologna, Bologna, Italy, April 2013.
- Merloni, A.: BOSS AGN observations in the LSS field: a SPIDERS pilot, invited talk, Annual XXL Meeting, Bonn, Germany, June 2013.
- Merloni, A.: Cosmological evolution of AGN: some new results from multi-wavelength surveys, invited talk, Accreting Relativistic Compact Objects and their Environment, Prague, Czech Republic, November 2013.
- Merloni, A.: Cosmological evolution of SMBH: clue about AGN feedback from multi-wavelength surveys, invited talk, Massive Black Holes: Birth, Growth and Impact, Santa Barbara, USA, August 2013.
- Merloni, A.: Cosmological evolution of Supermassive Black holes, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.
- Merloni, A.: Science with the SRG/eROSITA all-sky survey: an outlook, colloquium, Caltech, Pasadena, USA,

August 2013.

Merloni, A.: Unification of Accretion: from black hole binaries to AGN, invited talk, Spectral/timing properties of accreting objects: from X-ray binaries to AGN, Madrid, Spain, April 2013.

Nandra, K.: Athena+: The Case for a future X-ray Observatory in 2028, invited talk, European Large X-ray Observatory Discussion Meeting, Leicester, UK, February 2013.

Nandra, K.: SPIDERS: Spectroscopic Identification of eROSITA sources, invited talk, SDSS-III Collaboration Meeting, Baltimore, USA, June 2013.

Nandra, K.: GRAVITAS Science Overview, invited talk, XTP-GRAVITAS Workshop, ISSI, Beijing, China, June 2013.

Nandra, K.: eROSITA: the generation all sky X-ray survey, invited talk, LSST@Europe: the Path to Science, Cambridge, UK, September 2013.

Nandra, K.: Athena+: Revealing the Hot and Energetic Universe, invited talk, 13th Meeting of the High Energy Astrophysics Division, HEAD Meeting, Monterey, USA, April 2013.

Nandra, K.: The Hot and Energetic Universe, invited talk, ESA Presentation meeting for the L2 and L3 Science Themes, Paris, France, September 2013.

Nandra, K.: Athena+: Exploring the Hot and Energetic Universe, colloquium, Astrium UK, Stevenage, UK, September 2013.

Nandra, K.: Athena+: Exploring the Hot and Energetic Universe, colloquium, Institute for Astronomy, Edinburgh, UK, November 2013.

Nandra, K.: eROSITA, invited talk, BOSS/eBOSS collaboration meeting, Berkeley, USA, December 2013.

Poglitsch, A.: Die Geschichte der Sternentstehung im Universum, public talk, Karl Rahner Akademie, Cologne, Germany, May 2013.

Poglitsch, A.: Die Geschichte der Sternentstehung im Universum, colloquium, DLR, Cologne, Germany, May 2013.

Poglitsch, A.: Extragalactic high-J CO Line Observations with Herschel/PACS, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.

Ponti, G.: EPIC spectral variations of NGC 5548 over a month, contributed talk, The multi-wavelength campaign on NGC5548, Bern (ISSI), Switzerland, December 2013.

Ponti, G.: Excess Variance in AGN, contributed talk, From the Dolomites to the event horizon: sledging down the black hole potential well, Sesto, Italy, July 2013.

Ponti, G.: The past (and future?) X-ray activity of the Galactic Centre, contributed talk, New XMM-Newton scan of the Central Molecular Zone, Bern (ISSI), Switzerland, May 2013.

Ponti, G.: Traces of past activity in the Galactic Centre, contributed talk, The Galactic Center: Feeding and feedback: IAU Symposium, Santa Fe, New Mexico, USA, October 2013.

Ponti, G.: The past X-ray history of the galactic center,

invited talk, The restless nature of AGNs, Naples, Italy, May 2013.

Predehl, P.: Der Bau von eROSITA, public talk, Volksternwarte München, Munich, Germany, November 2013.

Predehl, P.: Implementation options for XTP/GRAVITAS science, invited talk, XTP/Gravitas Workshop, IHEP, Beijing, China, June 2013.

Predehl, P.: eROSITA – Eine neue Himmelsdurchmusterung im Röntgenbereich, contributed talk, 28. Optik-Kolloquium ITO Stuttgart, Stuttgart, Germany, February 2013.

Predehl, P.: eRosita, mapping the X-ray Universe, invited talk, Jahrestagung der Astronomischen Gesellschaft, Tübingen, Germany, September 2013.

Prinz, T.: Supernova remnant candidates in the ROSAT All-Sky Survey, contributed talk, Annual Meeting of the Astronomische Gesellschaft 2013, Tübingen, Germany, September 2013.

Raeth, C.: Low-l Phase Correlations in the PLANCK Data, contributed talk, 47th ESLAB Symposium: The Universe as seen by PLANCK, Noordwijk, The Netherlands, April 2013.

Raeth, C.: Low-l phase correlations in the full-mission PLANCK data: Some first results, colloquium, PLANCK isotropy and statistics team meeting, Cambridge, UK, July 2013.

Raeth, C.: PLANCK anomalies, invited talk, Science Day of the Excellence Cluster Universe, Garching, Germany, June 2013.

Raeth, C.: The only nearly perfect Universe as seen by PLANCK, invited talk, Seminar Talk, University of Bielefeld, Bielefeld, Germany, July 2013.

Rau, A.: Compact objects: catalogs & follow-up, invited talk, eROSITA Catalog Working Group Meeting, Munich, Germany, July 2013.

Rau, A.: Fermi, GROND, and GRBs, invited talk, Realtime Astroparticle Physics, Bonn, Germany, February 2013.

Rau, A.: Optical/NIR time domain surveys for identification and characterization of compact objects in the eROSITA survey, invited talk, eROSITA Compact Object Working Group Meeting, Potsdam, Germany, June 2013.

Rau, A.: SRGs contribution to the LIGO/VIRGO GW-Trigger Follow-up, contributed talk, Discussion Meeting about agreements for LIGO-Virgo Event Follow-up Program, Amsterdam, The Netherlands, August 2013.

Rau, A.: eRASS compact objects and LIGO-Virgo events, contributed talk, German eROSITA Consortium Meeting 2013, Garching, Germany, October 2013.

Rosario, D.J.: Star Formation and AGN: A modern perspective, colloquium, ETH Zurich, Zurich, Switzerland, November 2013.

Rosario, D.J.: A modern perspective on star formation in AGN, contributed talk, MPA Heidelberg, Heidelberg, Germany, November 2013.

Rosario, D.J.: Conference Summary: Co-evolution, invited talk, The Triggering Mechanisms for Active Galactic Nuclei, Leiden, The Netherlands, July 2013.

- Rosario, D.J.: Near and Far: The SF-AGN connection across Cosmic Time, invited talk, Searching the leading actor on the cosmic stage: Galaxies vs Black holes, Castellammare del Golfo, Italy, June 2013.
- Rosario, D.J.: Star Formation and AGN: A modern perspective, invited talk, Tel Aviv University, Tel Aviv, Israel, December 2013.
- Rosario, D.J.: The Star-Forming Properties of Active Galaxies to $z=2.5$: A Multi-Faceted View, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Saintonge, A.: Molecular gas as a probe of galaxy evolution, invited talk, 6th Southern Cross Conference: Feeding, Feedback and Fireworks, Hamilton Island, Australia, June 2013.
- Salvato, M.: Mapping the active Universe with eROSITA, invited talk, IAU S304: Multiwavelength AGN Surveys and Studies, Yerevan, Armenia, October 2013.
- Sanchez, A.G.: Cosmological implications of the BOSS-CMASS clustering wedges, contributed talk, Ripples in the Cosmos, Durham, UK, July 2013.
- Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, INAF - Osservatorio Astronomico di Brera, Merate, Italy, April 2013.
- Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, Swinburne University, Melbourne, Australia, November 2013.
- Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, The University of Melbourne, Melbourne, Australia, November 2013.
- Sanchez, A.G.: Cosmological implications of the large scale galaxy clustering in BOSS, invited talk, Theoretical Challenges in Large Scale Structure, Ascona, Switzerland, July 2013.
- Sanchez, A.G.: Observational Cosmology, colloquium, Astronomic Observatory of Cordoba, Cordoba, Argentina, March 2013.
- Schartmann, M.: Possible Flare Emission in the Galactic Center due to the G2 Encounter, invited talk, Localising Astrophysical Transients, Leiden, Holland, May 2013.
- Schartmann, M.: Simulations of possible formation scenarios and the fate of G2, invited talk, ESF workshop "Tidal Disruption Events: Looking at the Future", Favignana, Italy, September 2013.
- M. Scholer: The role of microinstabilities in the dynamics of supercritical quasi-perpendicular collisionless shocks, invited talk, 8th European Workshop on Collisionless Shocks, Paris, France, June 2013.
- Schruba, A.: Interstellar Medium and Star Formation in Nearby Galaxies, invited talk, Institut de Planétologie et d'Astrophysique de Grenoble, Grenoble, France, December 2013.
- Schruba, A.: The Resolved ISM in our Nearest Spiral Galaxy, contributed talk, Physical Processes in the ISM, Garching, Germany, October 2013.
- Schwabe, M.: Simulating the Dynamics of Complex/Dusty Plasmas, invited talk, 19th IEEE Pulsed Power Conference and 40th IEEE International Conference on Plasma Science, San Francisco, USA, June 2013.
- Sturm, E.: Extragalactic observations of FIR CO lines and their interpretation, contributed talk, SPICA-SAFARI Science Meeting, Utrecht, The Netherlands, March 2013.
- Sturm, E.: Galaxy Evolution as seen by PACS, contributed talk, The Universe Explored by Herschel (ESLAB2013), Noordwijk, The Netherlands, October 2013.
- Sturm, E.: Massive molecular outflows from ULIRGs, contributed talk, Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.
- Sturm, E.: Star Formation and the ISM in Infrared Bright Galaxies - SHINING, colloquium, Colloquium of the University Observatory Munich (USM), Munich, Germany, January 2013.
- Sturm, E.: The Mid- and Far-Infrared View on Galaxy Evolution, invited talk, From Exoplanets to Distant Galaxies: SPICA's New Window on the Cool Universe, Tokyo, Japan, June 2013.
- Sturm, E.: The dynamics and energetics of molecular outflows in ULIRGs, invited talk, Galaxies versus Black Holes, Castellammare del Golfo, Italy, June 2013.
- Tacconi, L.J.: Gas Consumption in Extreme Environments: High Redshift, invited talk, Regulation of Star Formation in Molecular Gas: from Galactic to Sub-cloud Scales, Kreuth, Ringberg Castle, Germany, June 2013.
- Tacconi, L.J.: PHIBSS: Molecular Gas and Scaling Relations in $z=1-2$ Star Forming Galaxies, colloquium, INAF Osservatorio Astronomico di Roma, Rome, Italy, May 2013.
- Tacconi, L.J.: PHIBSS: Molecular Gas and Scaling Relations in $z=1-2$ Star Forming Galaxies, invited talk, 2013 Santa Cruz Galaxy Evolution Workshop, Santa Cruz, USA, August 2013.
- Tacconi, L.J.: PHIBSS: Molecular Gas and Scaling Relations in $z=1-2$ Star Forming Galaxies, invited talk, GALFORM Series, Berkeley, USA, February 2013.
- Tacconi, L.J.: The ISM at High Redshift – Observations, invited talk, ISM-SPP: Physical Processes in the ISM, Garching, Germany, October 2013.
- Thoma, M.H.: Physik in der Schwerelosigkeit, public talk, Justus-Liebig-Universität Giessen, Giessen, Germany, January 2013.
- Thoma, M.H.: The PK-4 Project: Complex Plasma Microgravity Experiments in a DC Discharge - Results from the Latest Parabolic Flight Campaign, contributed talk, DPG-Frühjahrstagung, Jena, Germany, February 2013.
- Thomas, J.: A Milky-Way like IMF in high-dispersion ellipticals?, invited talk, Hot Topics on Elliptical Galaxies, Venice, Italy, October 2013.
- Thomas, J.: Black-hole masses & cores of high-sigma early-type galaxies and Observations on SMBH-galaxy correlations, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.

- Thomas, J.: The central M/L of high-dispersion galaxies, contributed talk, The Physical Link between Galaxies and their Halos, Garching, Germany, June 2013.
- Thomas, J.: The mass structure of luminous early-type galaxies from stellar dynamics, invited talk, Dissecting Galaxies with 2D Wide-field Spectroscopy, Lijiang, China, March 2013.
- Trümper, J.: ROSAT, public talk, Raumfahrt-Stammtisch Munich, Munich, Germany, April 2013.
- Trümper, J.: Looking back at 50 Years of X-Ray Astronomy, invited talk, IBWS 2013, Karlovy Vary, Czech Republic, April 2013
- Trümper, J.: The Physics of Magnetars, invited talk, IBWS 2013, Karlovy Vary, Czech Republic, April 2013.
- Trümper, J.: Constraining the Equation of State of Matter using Neutron Star Observations, colloquium, Physics Colloquium University of Regensburg, Regensburg, Germany, May 2013.
- Trümper, J.: Constraining the Equation of State of Matter using Neutron Star Observations, colloquium, Astrophysics Colloquium University Tübingen, Tübingen, Germany, June 2013.
- Trümper, J.: Sonne, Mond und Sterne, public talk, Montessori-Schule Hausham-Miesbach, Miesbach, Germany, July 2013.
- van Dishoeck, E.F.: Astrochemistry: the promise of Herschel delivered!, invited talk, The Universe explored by Herschel, Noordwijk, The Netherlands, October 2013.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Halley lecture, Oxford University, Oxford, UK, May 2013.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Sackler lecture, Tel Aviv University, Tel Aviv, Israel, May 2013.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, public talk, Dutch Royal Academy of Sciences, Amsterdam, The Netherlands, March 2013.
- van Dishoeck, E.F.: Chemistry in star-forming regions and protoplanetary disks, invited talk, lectures at Nordic summerschool on Molecules in Space, Onsala, Sweden, June 2013.
- van Dishoeck, E.F.: Complex molecules in high-mass YSOs with disk-like structures, contributed talk, Astrochemistry in the ALMA era, Copenhagen, Denmark, January 2013.
- van Dishoeck, E.F.: From dust and molecules to planets: the ALMA revolution, invited talk, Keynote lecture, 2013 Rocks! Transformational science with ALMA, Kona, USA, April 2013.
- van Dishoeck, E.F.: Galactic science with ALMA, public talk, ALMA inauguration, San Pedro de Atacama, Chile, March 2013.
- van Dishoeck, E.F.: Interstellar molecules: from cores to disks, invited talk, Observing the Universe from molecules to galaxies, Austin, USA, April 2013.
- van Dishoeck, E.F.: Planetesimal formation in action: ALMA IRS48 images, invited talk, Ice and planet formation, Lund, Sweden, May 2013.
- van Dishoeck, E.F.: Sweet results from ALMA, invited talk, Jahrestagung der Astronomischen Gesellschaft, Tübingen, Germany, September 2013.
- van Dishoeck, E.F.: Sweet results from ALMA, invited talk, Leiden Observatory, Leiden, The Netherlands, September 2013.
- van Dishoeck, E.F.: The submm universe as seen by the superconducting devices in Herschel and ALMA, invited talk, From nano to cosmo, Delft, The Netherlands, November 2013.
- van Dishoeck, E.F.: Transitional disks: planet formation in action, colloquium, Oxford University, Oxford, UK, May 2013.
- van Dishoeck, E.F.: Transitional disks: planet formation in action, colloquium, Tel Aviv University, Tel Aviv, Israel, May 2013.
- van Dishoeck, E.F.: Waar komt het water op aarde vandaan?, public talk, Diligentia lezing, Den Haag, The Netherlands, March 2013.
- van Dishoeck, E.F.: Water chemistry: from collapsing cores to disks, invited talk, From stars to life, Gainesville, USA, April 2013.
- van Dishoeck, E.F.: Water en de bouwstenen voor leven tussen de sterren, public talk, Paradiso lezing, Amsterdam, The Netherlands, January 2013.
- van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disks, colloquium, Joint Munich Colloquium, Munich, Germany, June 2013.
- van Dishoeck, E.F.: Water in space: from interstellar clouds to planets, colloquium, Open University, Milton Keynes, UK, October 2013.
- van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA, colloquium, Joint Cavendish-IOA colloquium, Cambridge, UK, October 2013.
- Vilenius, E.: "TNOs Are Cool": a Survey of the Transneptunian Region. Results from the Combined Herschel PACS and SPIRE Observations of Nine Bright Targets, contributed talk, Asia Oceania Geosciences Society 10th Annual Meeting, Brisbane, Australia, June 2013.
- Vilenius, E.: "TNOs are Cool": A survey of trans-Neptunian objects with Herschel Space Observatory, colloquium, Konkoly Observatory, Research Centre for Astronomy and Earth Sciences, Budapest, Hungary, December 2013.
- Vilenius, E.: Analysis of classical Kuiper belt objects using data from Herschel open time key program "TNOs are Cool", contributed talk, Waves and Particles: Multi-Messengers from the Universe. Annual Meeting of the Astronomische Gesellschaft, Tübingen, Germany, September 2013.
- Vilenius, E.: Herschel observations of outer solar system, contributed talk, Star and Planet Formation Seminar at European Southern Observatory, Garching, Germany, October 2013.

Vilenius, E.: TNOs are Cool: Physical characterization of classical Kuiper belt objects from Herschel Space Observatory and Spitzer Space Telescope data, contributed talk, Asia Oceania Geosciences Society 10th Annual Meeting, Brisbane, Australia, June 2013.

Wisnioski, E.: From 13 to 600+: the Future of High-z IFU Surveys, invited talk, Astronomical Society of Australia Annual Science Meeting, Melbourne, Australia, July 2013.

Wisnioski, E.: Star Formation on kpc-scales $z = 0.1 - 1.5$, invited talk, Australian Astronomical Observatory, Sydney, Australia, February 2013.

Wisnioski, E.: Star Formation on kpc-scales $z = 0.1 - 1.5$, invited talk, Australian National University, Canberra, Australia, February 2013.

Wisnioski, E.: Star Formation on kpc-scales $z = 0.1 - 1.5$, invited talk, Instituto de Astrofísica de Canarias, Tenerife, Spain, January 2013.

Wisnioski, E.: The Evolution of Resolved Kinematics and Star-Formation From $z = 0.7 - 2.5$, contributed talk, Physical Processes of Galaxy Formation, Aix-en-Provence, France, July 2013.

Wuyts, E.: A Magnified View of the Kinematics and Morphology of Star Formation at $z=1.7$, contributed talk, Physical Processes of Galaxy Formation: Consensus and

Challenges, Aix-en-Provence, France, July 2013.

Wuyts, E.: Zooming in on a merger at $z=1.7$, contributed talk, Dissecting Galaxies with 2D Wide-field Spectroscopy, Lijiang, China, March 2013.

Wuyts, S.: Dissecting the kinematics and structure of star-forming galaxies at cosmic noon, invited talk, Dissecting galaxies with 2D wide-field spectroscopy, Lijiang, China, March 2013.

Wuyts, S.: On the road to quenching, invited talk, Ellipticals in Venice, Venice, Italy, October 2013.

Wuyts, S.: Resolved stellar populations of galaxies at cosmic noon, contributed talk, The origin of the Hubble sequence, Paris, France, June 2013.

Wuyts, S.: Resolved stellar populations of star-forming galaxies at cosmic noon, contributed talk, Physical processes of galaxy formation: consensus and challenges, Aix en Provence, France, July 2013.

Wuyts, S.: Resolved stellar populations, bulge growth and quenching since cosmic noon, colloquium, Columbia University, New York, USA, December 2013.

Wuyts, S.: Resolved stellar populations, bulge growth and quenching since cosmic noon, colloquium, McGill University, Montreal, Canada, December 2013.

Books / Articles in Books

Boller, Th. and A. Müller: Astronomical Tests of General Relativity and the Pseudo-Complex Theory. In Book "Exciting Interdisciplinary Physics". (Ed.) W. Greiner. FIAS Interdisciplinary Science Series, Springer International Publishing Switzerland, 293-312 (2013).

Johnson, J.L.: Formation of the first galaxies: theory and simulations. In Book "The First galaxies:- Theoretical Predictions and Observational Clues. (Eds.) T. Wiklind, B. Mobasher, V. Bromm. Astrophysics and Space Science Library 396, 177-222 (2013).

Merloni, A. and S. Heinz: Evolution of Active Galactic Nuclei. In Book "Planets, Stars and Stellar Systems, Vol. 6: Extragalactic Astronomy and Cosmology". (Eds.) T.D. Oswalt, W.C. Keel. Springer Science-Business Media, Dordrecht, The Netherlands, 503-566 (2013).

Morfill, G., Y. Baturin, V. Fortov (Eds.): Plasma Research at the Limit - From the International Space Station to Applications on Earth. World Scientific Publishing, Singapore, 312 pp, (2013).

Saglia, R. (Ed.): Hot Planets and Cool Stars. EPJ Web of Conferences Vol. 47, published online (2013).

Popular Scientific Publications

Alexander, F.: Aluminium-26 als Botschafter aktueller Element-Entstehung. *Sterne und Weltraum* Juni 2013, S. 28 (2013).

Burtscher, L and K.R.W. Tristram: The Diversity of Dusty AGN Tori: Results from the VLT/MIDI AGN Large Programme. *ESO Messenger* 154, 62-65 (2013).

Gillessen, S. and F. Eisenhauer: Im Sog des Schwarzen Lochs. *Sterne und Weltraum* 8/2013, 28-35 (2013).

Lutz, D. and E. Sturm: Die dunkle Seite der Galaxienentwicklung. *Physik in unserer Zeit* 44, 174-179 (2013).

Sharples, R., R. Bender, A. Agudo Berbel, N. Bezawada, R. Castillo, M. Cirasuolo, G. Davidson, R. Davies, M. Dubbeldam, A. Fairley, G. Finger, N. Förster Schreiber,

F. Gonte, A. Hess, I. Jung, I. Lewis, J.-L. Lizon, B. Mutschelok, L. Pasquini, J. Pirard, D. Popovic, S. Ramsay, P. Rees, J. Richter, M. Riquelme, M. Rodrigues, I. Saviane, J. Schlichter, L. Schmidtreick, A. Segovia, A. Smette, T. Szeifert, A. van Kesteren, M. Wegner and E. Wiezorrek: First Light for the KMOS Multi-Object Integral-Field Spectrometer. *The Messenger* 151, 21-23 (2013).

Wegg, C. and O. Gerhard: The Milky Way's Box/Peanut Bulge: Measuring its Three-dimensional Structure Using the VVV Survey. *ESO Messenger* 154, 54-56 (2013).

Winter, A.: Sterngeburt kurz nach dem Urknall. *Sterne und Weltraum*, 52(5), 46-53 (2013).

PhD Theses

Elliott, J.: Using gamma-ray bursts as tools. Technische Universität München 2013.

Fritz, T.: From the Sun to the Galactic Center: Dust, Stars and Black Hole(s). Ludwigs-Maximilians-Universität München 2013.

Fotopoulou, S.: Active galactic nuclei luminosity function and the Lockman hole deep field. Technische Universität München 2013.

Heidemann, R.: Dynamical phenomena in complex plasmas. Ludwig-Maximilians-Universität, München.

Olivares E., F.: Probing the Connection between Supernovae and Gamma-Ray Bursts. Technische Universität München 2013.

Prinz, T.: Exploring the End States of Massive Stars using the X-ray Emission of Neutron Stars and Supernova Remnants. Ludwigs-Maximilians-Universität München 2013.

Rossmannith, G.: Non-linear data analysis on the sphere - the quest for anomalies in the cosmic microwave background. Ludwig-Maximilians-Universität München 2013.

Weißmann, A.: Statistical analysis of the X-ray morphology of galaxy clusters. Ludwigs-Maximilians-Universität München 2013.

Zendejas Dominguez, J.: Searching for transits in the WTS with the difference imaging light curves. Ludwigs-Maximilians-Universität München 2013.

Diploma

Knust, F.: Mass estimates of black holes in X-ray binaries. Technische Universität München 2013.

Siegert, T.: High-precision cosmic gamma-ray line spectroscopy: Spectral response and background modeling. Technische Universität München 2013.

Master

Finozzi, F.: Programming and testing a 3D-Schwarzschild code for the dynamical modeling of galaxies. Ludwigs-Maximilians-Universität München 2013.

Haug, M.: Liquid Nitrogen Cooled Cryostat to Provide Mechanical Stability on a Nanometre Level for the Astronomical Instrument GRAVITY. Hochschule für angewandte Wissenschaften, München 2013.

Penka, D.: Radiometric Study for the E-ELT instrument MICADO. Hochschule für angewandte Wissenschaften, München 2013.

Wurdack, A.: Pan-Planets: Stellar variability in the globular cluster M71. Ludwigs-Maximilians-Universität München 2013.

Bachelor

Bolmer, J.: Photometrische Entfernungsbestimmung von Blazaren. Technische Universität München 2013.

Madarasz, E.: Dunkle Materie in spheroidalen Zwerggalaxien der Milchstrasse. Technische Universität München 2013.

Peterson, A.: Radius-Änderung eines Weissen Zwerges während eines Nova-Ausbruches. Technische Universität München 2013.

Schiegg, F.: Messung der Massen stellarer Schwarzer Löcher in Röntgen-Doppelsternsystemen. Technische Universität München 2013.

Schlecker, M.: Alignment and Calibration of the X-ray telescope μ ROSI. Technische Universität München 2013.

Schweyer, T.: Towards a new SMC extinction curve. Technische Universität München 2013.

Collaborations / Transfer of Know-How

Scientific Collaborations by Country



Australia

Australian National University, Canberra: Galaxienentstehung.

Monash University, Melbourne: Nukleare Astrophysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

Austria

Universität und TU Wien: Herschel-PACS.

Universitäten Wien, Innsbruck, Linz: MICADO.

Belgium

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

Brasil

Universidade de Sao Paulo: Galaxienentstehung.

Observatorio Nacional, Rio: DES.

Centro Brasileiro de Pesquisas, Rio: DES.

Universidade Federal do Rio: DES.

Chile

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme.

China

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

Institute for Plasma Physics, Hefei: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

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

France

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

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

GREMI-Lab, Orleans: Komplexe Plasmen; Plasmakristall Experimente auf der ISS.

IAP Paris: Nukleare Astrophysik.

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

IPAG Grenoble: GRAVITY.

OAMP Marseille: Herschel-PACS.

Observatoire de Paris-Meudon: GRAVITY; MICADO.

Germany

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

Christian-Albrechts-Universität, Kiel: komplexe Plasmen.

Dept. Earth and Environmental Sciences of the Ludwig-Maximilians-Universität, Munich: Raman Spectroscopy.

Department of Neuropathology, Technical University Munich: Raman Spectroscopy, Plasma Medicine.

DLR-Köln Porz: Plasmakristall Experiment; PK-3 Plus; Rosetta Lander (Philae); Plasma-Dekontamination.

European Southern Observatory (ESO), Garching: KMOS Multiobjekt-Spectrograph für VLT; GRAVITY; Galaxienentstehung; Nukleare Astrophysik; MICADO; ERIS.

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

Institut für Astrophysik Göttingen: MICADO.

Institute of Experimental Oncology, Technical University Munich: Plasma Medicine.

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

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

Klinik für Dermatologie, Allergologie und Umweltmedizin, Krankenhaus München Schwabing: Plasmamedizin.

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

Laser Zentrum Hannover: Development of advanced Filters for MICADO, coatings for Gravity, dichroics for ARGOS.

Leibniz Supercomputing Centre of the Bavarian Academy of Sciences and Humanities, Garching b. München: Label free imaging and Pattern Recognition.

Ludwig-Maximilians-Universität, München: KMOS; MICADO; HETDEX; Plasmamedizin.

Maier-Leibnitz Laboratorium, Garching: eROSITA.

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

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

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

Max-Planck-Institut für Kernphysik, Heidelberg: CFEL.

Max-Planck-Institut für Biomedizinische Forschung, Münster: CFEL.

Max-Planck-Institut für Komplexe Systeme, Fritz-Haber-Institut, Dresden: CFEL.

Max-Planck-Institut für Biophysische Chemie, Göttingen: CFEL.

Max-Planck-Institut für Radioastronomie, Bonn: ARGOS.

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

Städtisches Klinikum München GmbH, Mikrobiologie Zentrallager Schwabing: Plasma Medicine.

Stiftung Tierärztliche Hochschule, Institut für Lebensmittel-

telqualität und -sicherheit, Hannover: Plasma Medicine.

Thüringer Landessternwarte Tautenburg: GROND; Gamma-Ray Bursts.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Nukleare Astrophysik; Toxologische Abteilung II Med Klinik: Plasma Medicine.

Trans MIT, Gießen: Pulse tube cooler for GRAVITY.

Universität Bochum: Komplexe Plasmen; LUCI.

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

Universität Düsseldorf: komplexe Plasmen, ERC Advanced Grant.

Universität Erlangen: eROSITA.

Universität Greifswald: Komplexe Plasmen.

Universität Hamburg: eROSITA; OPTIMA (Flarestars)

Universität Heidelberg: Athena; XFEL.

Universität Jena: Isolierte Neutronensterne; Nukleare Astrophysik.

Universität Kiel: Komplexe Plasmen.

Universität Köln: Galaktisches Zentrum; GRAVITY.

University of Veterinary Medicine Hannover, Institute for food quality and food safety: Plasma Medicine.

Universität Mannheim: Athena; XFEL.

Universität Regensburg, Institut für Pathologie, Innere Medicine: Plasma Medicine.

University Hospital Regensburg, Department of Dermatology: Plasma Medicine.

Universität Siegen: Compton Kamera.

Universität Würzburg: AGADE.

Greece

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

Hungary

Konkoly Observatory, Budapest: Herschel-PACS.

Ireland

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

University College Dublin: Fermi/GBM.

Israel

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

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

Italy

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen; Athena.

IFCAI-CNR Palermo: XMM-Newton Beobachtungen von

Neutronensternen und Pulsaren.

INAF Arcetri: ARGOS; LBT.

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

INAF Padua: Herschel-PACS; LBT; MICADO.

INAF Roma: LBT; Nukleare Astrophysik.

INFR Frascati: SIDDHARTA.

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

OAA/LENS Firenze: Herschel-PACS.

Politecnico di Milano: rauscharme Elektronik; Röntgendetektorenentwicklung.

University Bologna: EUCLID.

Universität Neapel: Komplexe Plasmen.

Japan

ISAS: SPICA-SAFARI.

JAXA: Pk-3 Plus; PK-4; Plasmalab.

Kyoto Institute for Technology: Komplexe Plasmen, PK-3 Plus, Plasmalab.

Tohoku University: Komplexe Plasmen.

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

University of Osaka: Astro H; Athena CCDs.

University of Tokyo: GeBiB detectors.

Yokohama National University: komplexe Plasmen.

Kroatia

Ministry of Science and Technology, Zagreb: CAST.

The Netherlands

ESTEC, Noordwijk: XMM-Newton-TS-Spiegelkalibration; CCD Entwicklung; Radiation Performance Instrument; INTEGRAL; EUCLID; PK-4.

FOM Institute for Plasma Physics, Rijnhuizen: komplexe Plasmen.

NOVA Leiden: MICADO.

SRON Groningen: SPICA-SAFARI.

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

TU Delft: Reflexions Messungen an schwarzen Farben.

University Eindhoven: Komplexe Plasmen; Plasmalab.

University of Groningen, Kapteyn Institute: Rekonstruktion der Dichteverteilung im Universum.

Norway

Universität Tromsø: Komplexe Plasmen.

Polen

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

University Zielona Gora: OPTIMA.

Portugal

SIM Lissabon und Porto: GRAVITY.

Universität Lissabon: Komplexe Plasmen.

Russia

Joint Institute for High Temperatures (JIHT) of the Russian Academy of Science, Moscow: Plasmakristall Experiment (PKE); PKE-Nefedov; PK-3 Plus; PK-4; Plasmalab; Plas-

ma Medicine.

Institute for Biomedical Problems of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Epidemiology and Microbiology Problems of the Russian Academy of Medical Sciences, Moscow: Plasma Medicine.

Institute for Theoretical and Experimental Biophysics of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Problems of Chemical Physics of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Physical Chemical Medicine of the Russian Academy of Medical Sciences, Moscow: Plasma Medicine.

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

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

Schweden

University Lund/Observatory: OPTIMA.

University Stockholm: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

Spain

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

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

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

Instituto de Ciencias del Espacio, Bellaterra: DES.

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

LAEFF, Madrid: RoPACS.

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

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen

Switzerland

CERN, Geneva: CAST.

ETH Zürich: ERIS

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

Universität Basel: Nukleare Astrophysik.

Taiwan

National Central University, Chungli; PanSTARRS.

Turkey

Bogazici University, Istanbul: CAST.

Ukraine

Main National Observatory, Kiev: RoPACS.

UK

Queen's University, Belfast: PanSTARRS.

BRUNEL University, London: Athena.

John Moores University, Liverpool: Himmelsdurchmuster-

rung Galaxienhaufen.

Loughborough University, Department of Electronic and Electrical Engineering: Plasma Medicine.

Open University, Milton Keynes: Kataklysmische Variablen; Novae.

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

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

University of Durham: KMOS, PanSTARRS.

University of Edinburgh: DES; KMOS; PanSTARRS.

University of Hertfordshire: RoPACS.

University of Leeds: Komplexe Plasmen.

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

University of Liverpool: Komplexe Plasmen.

University of Nottingham: DES.

University of Portsmouth: DES.

University of Sussex, Brighton: DES.

University of Southampton: Magellanic Clouds.

University Oxford: Komplexe Plasmen; KMOS.

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

USA

Argonne National Laboratory: DES.

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

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

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

Clemson University: Gamma-Ray Bursts; Nukleare Astrophysik.

Fermilab, Batavia: DES.

Harvard University: PanSTARRS.

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

Jet Propulsion Laboratory, Pasadena: EUCLID.

Johns Hopkins University: PanSTARRS.

Marshall Space Flight Center, Huntsville: Fermi Gamma-Ray Burst Monitor; XMM-Newton und Chandra Beobachtungen von Neutronensternen, Pulsaren und Supernova-Überresten.

MIT, Cambridge: Athena/WFI.

NOAO, Tucson: DES.

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

Naval Research Laboratory, Washington: komplexe Plasmen.

Ohio State University, Columbus: DES; LBT.

Old Dominion University Norfolk, Laser & Plasma engineering Institute: Plasma Medicine.

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

Pennsylvania State University: HETDEX; Athena/WFI; Swift.

Research Corporation: LBT.

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

Space Telescope Science Institute, Baltimore: Galaxienentstehung; PanSTARRS.

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

SLAC, Stanford: CAMP; DES.

Texas A & M University, College Station: DES.

Texas State University, San Marcos: HETDEX.

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

University of California, Berkeley: MPG/UCB-Kollaboration; FAST; INTEGRAL-Spektrometer SPI; Department of chemical engineering: Plasma Medicine, Komplexe Plasmen.

University of California, San Diego: Komplexe Plasmen.

University of California, Santa Cruz: DES.

University of Chicago: DES.

University of Colorado, Boulder: komplexe Plasmen.

University of Iowa, Iowa City: Komplexe Plasmen; PKE-Nefedov, PK-3 Plus.

University of Illinois at Urbana-Champaign: FIFI-LS; DES.

University of Michigan: DES.

University of Pennsylvania: DES.

University of Pittsburgh: Galaxienentstehung.

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung.

Multinational Collaborations - Projects

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

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

Athena - Advanced Telescope for High Energy Astrophysics: University of Leicester, UK; SRON Utrecht, The Netherlands; Institut für Astronomie und Astrophysik Tübingen, Germany; CESR Toulouse, France; Institute of Space and Astronautical Science (ISAS), JAXA, Japan; ESA; NASA, MIT, CfA, Penn State University, USA.

BOSS: SDSS-III Collaboration.

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

CDFS - The Chandra Deep Field South: ESO Garching, AIP, Germany; IAP Paris, France; Osservatorio Astronomico Trieste; 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 de 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, ETH Zürich.

eROSITA - extended Roentgen Survey with an Imaging Telescope Array: Universität Tübingen, Universität Bonn, Universität Erlangen, AIP Potsdam, Universität Hamburg, Remeis-Sternwarte Bamberg, MPA Garching, LMU München, Germany; IKI Moskau, Russia.

EUCLID - ESA Mission to map the Dark Energy: ESA; CEA Saclay, LAM, France; University Bologna, INAF, Italy; MSSL, Durham University, UKATC UK; STC I, USA; MPIA Heidelberg, Universität Bonn, Germany.

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

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

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

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

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

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

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

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

Germany; Danish Space Research Institute Lyngby, Denmark; University College Dublin, Ireland; Istituto di Fisica Milano, Istituto 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.

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

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

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

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

MICADO - Multi-Adaptive Optics Imaging Camera for Deep Observations: LMU, USM, MPIA, IFA Göttingen, Germany; INAF Padova, Italy; Austrian Universities astronomy cooperation (Wien, Innsbruck, Linz); NOVA, Federation of Dutch University Astronomy Depts, The Netherlands; LESIA, Paris, France.

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

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

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

PK-3 Plus (Plasma-crystal experiment): JIHT Moscow, Russia; University of Iowa City, USA; DLR-Köln, University of Kiel, Germany; Université d'Orléans CNRS, France; Okayama University, JAXA-ISAS, Kyoto Institute of Technology, Japan; Auburn University, USA.

PK-4 (Plasma-crystal experiment): JIHT Moscow, Russia; Université d'Orléans CNRS, France; University Stockholm, Schweden, University Napoli, Italy; University Tromsø, Norway; University Liverpool, UK; University Iowa, University Auburn, USA; ESTEC Noordwijk, The Netherlands; DLR Bonn, Germany.

Plasmamedizin: Max Planck Innovation GmbH, Dept. of Dermatology, Hospital Schwabing, München, Medizet Dept. Microbiology, Schwabing, München, Dept. of Dermatology, University Hospital Regensburg, Dept. of Neu-

ropathology, TU München, Institute of Experimental Oncology, TU München, University of Veterinary Medicine, Hannover, German Aerospace Center (DLR), Cologne, German Aerospace Center (DLR), Bonn, Dept. of Toxicology, TU München, Hospital for ENT, LMU München, University Regensburg, Dept. of Internal Medicine, Institute of Pathology, Germany; Joint Institute for High Temperatures of RAS, Institute for Biomedical Problems, RAS, Institute for Epidemiology and Microbiology, RAMS, Institute for Theoretical and Experimental Biophysics, RAS, Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Institute for Physical Chemical Medicine, RAMS, "International Legal Aid" Company, Russia; University of California, Berkeley, Old Dominion University, Norfolk, VA, USA; Loughborough University, Leicestershire, ADTEC Europe Ltd., UK.

PlasmaLab: JIHT Moscow, Russia; GREMI-Orleans, France; Tohoku University Sendai, Japan; Auburn University, USA.

RoPACS - Marie Curie Initial Training Network to study Rocky Planets around cool stars: University of Hertfordshire, Institute of Astronomy, Cambridge, UK; Institute de Astrofisica de Canarias, Laboratorio de Astrofisica Espacial y Fisica Fundamental, Madrid, Spain; Main Astronomical Observatory, Kiev, Ukraine.

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

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

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

Topical Team - Critical Point in Complex Plasmas: ESA, Paris, France; JAXA, Tokyo, Japan; JIHT, Moscow, Russia.

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

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

Industrial Collaborations

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

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.

ADTEC Plasma Technology Co. Ltd., Hiroshima: Development of a low-temperature plasma device for in-vivo sterilisation in medical applications.

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

Array Electronics, Eggenstein: DAQ development OPTIMA.

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

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

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

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

EADS Astrium, Munich: EUCLID design study, eROSITA.

ESL GmbH, Berlin: Manufacturing of circuit boards.

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

Guido Lex Werkzeugbau GmbH, Miesbach: parts for LUCI.

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

IABG, Ottobrunn: MLI for eROSITA.

HPS München: Environmental testing eROSITA.

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

Ingenieurbüro Josef Eder, Hilgertshausen: System Engineering for eROSITA.

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

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

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

Kaiser Optical Systems, Inc, Ann Arbor, USA: VIRUS-W VPH grating.

Kayser-Threde GmbH, München: Plasma-crystal experiments on the ISS; PKE; PK-3 Plus; PK-4; EUCLID design study.

Kugler GmbH, Salem: GRAVITY.

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

Luxelcorp, USA: Filter for eROSITA.

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

MBM Maschinenbau, Mühlendorf: eROSITA Container.

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

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

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

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

RUAG Austria: Telescope-Cover-Mechanism for eROSITA.

Scientific Instruments, Tucson, USA: Construction of the 16x16K CCD Mosaic Detector of the Wendelstein Wide Field Camera.

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

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

von Hoerner & Sulger, Schwetzingen: Manufacturing for PK-4.

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

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

Activities in Transfer of Know-How

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

A) Research cooperations financed by Industry

Optical design and development for MICADO.

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

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

ADTEC Plasma Technology Co. Ltd., Hiroshima (Japan): Plasmamedizin.

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

B) Licences

ADTEC, Japan, Plasma Torch.

Biocam GmbH, Regensburg: Dermatoscopy.

Baader Planetarium GmbH, Mammendorf: Reflexionsgitter Spectrograph für Lehrzwecke.

PNSensor, München, Detektortechnologie.

Baader Planetarium GmbH, Mammendorf: Baches Echelle Spectrograph.

C) Cooperations with Universities (by contract)

Anaesthesiology:

Klinik für Anästhesiologie, Klinikum Rechts der Isar, TU München.

Scanning Probe Microscopy and Ramam Spectroscopy:

Department of Neuropathology, Technical University Munich.

Institut für Kristallographie und Angewandte Mineralogie, LMU München.

Radiology:

Institut für Röntgendiagnostik, TU München.

Bayerisches Landeskriminalamt, StZ, München.

Plasmamedizin:

Department of Chemical Engineering, University of California, Berkeley.

Department of Neuropathology, TU Munich.

Department of Infectiology & Virology, University Heidelberg.

Department of Toxicology, TU Munich.

Hospital for ENT, LMU München.

Institute of Experimental Oncology, TU Munich.

Klinik für Dermatologie, Allergologie und Umweltmedizin, Städtisches Klinikum München GmbH, München.

Klinik und Poliklinik für Dermatologie, Universität Regensburg.

Institute for Biomedical Problems of the Russian Academy of Sciences, Moscow.

Institute for Epidemiology and Microbiology of the Russian Academy of Medical Sciences, Moscow.

Institute for Theoretical and Experimental Biophysics of the Russian Academy of Sciences, Moscow.

Institute for Problems of Chemical Physics of the Russian Academy of Sciences, Moscow.

Institute for Physical Chemical Medicine of the Russian Academy of Medical Sciences, Moscow.

Loughborough University, Department of Electronic and Electrical Engineering: Plasma Medicine.

Old Dominion University Norfolk, Laser & Plasma engineering Institute: Plasma Medicine.

Städtisches Klinikum München GmbH, Mikrobiologie Zentrallager Schwabing: Plasma Medicine.

University of Veterinary Medicine Hannover, Institute for food quality and food safety: Plasma Medicine.

Detector Development:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung.

D) Patents - Activities in 2013

MPE holds 11 patents end of 2013.