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extraterrestrische Physik**

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PERSONNEL 2011

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Scientific Honours, Appointments

Boller, Th.: Michael und Untlerka Baum-Preis f r herausragende physikalische Arbeit und Lehrt tigkeit durch den Frankfurter F rderverein f r physikalische Grundlagenforschung, Frankfurt, Germany, May 2011.

Boller, Th.: Member of the "Academia Europaea" - The Academy of Europe, Physics and Engineering Section, membership number 3014, October 2011.

Genzel, R.: Karl-Schwarzschild-Preis, Astronomische Gesellschaft, Heidelberg, Germany, September 2011.

Genzel, R.: West Lecture, Queens University Belfast, Belfast, Northern Ireland, UK, July 2011.

Kretschmer, M.: Best Poster Award 4th International Symposium on Physical Sciences in Space (ISPS-4), ESA/DLR, July 2011.

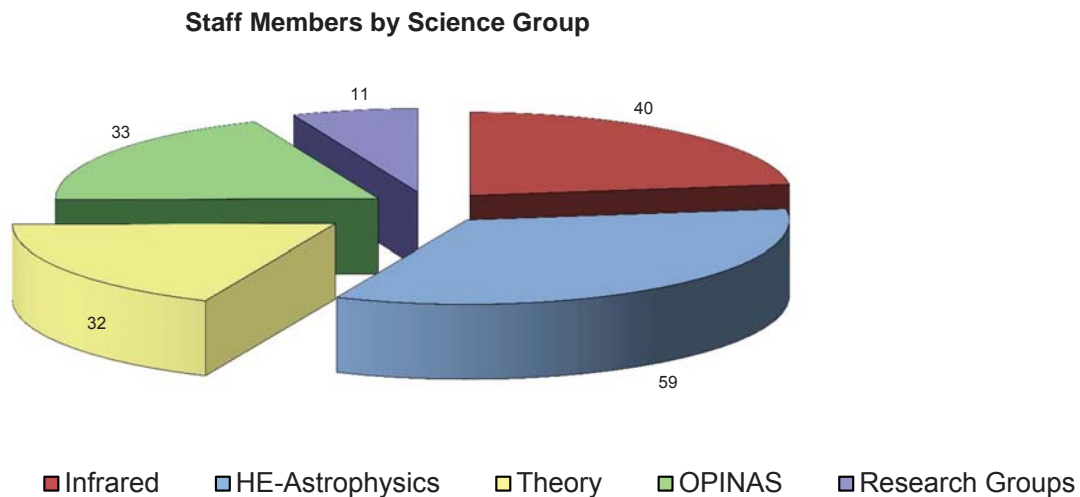
L st, R.: Ehrendoktor, Jacobs Universit t Bremen, Germany, September 2011.

Morfill, G.: James-Clerk-Maxwell-Preis, Amerikanische Physikalische Gesellschaft, Salt Lake City, USA, November 2011.

Savaglio, S.: "Made in Calabria"-Auszeichnung, Rome, Italy, February 2011.

Schwabe, M.: Promotionspreis, Europ ische Physikalische Gesellschaft, Strasbourg, France, June 2011.

Science Groups



Infrared / Submillimeter-Astronomy

Secretary: Harai-Ströbl, S.

Agudo Berbel, A.; Berta, Dr. S.; Bruderer, Dr. S.; Contursi, Dr. A.; Davies, Dr. R.; de Jong, Dr. J.A.; Dodds-Eden, Dr. K.; Doublier Pritchard, Dr. V.; Eisenhauer, Dr. F.; Fedele, Dr. D. (since 1.8.); Feuchtgruber, Dipl.-Phys. H.; Förster Schreiber, Dr. N.; Geis, Dr. N.; Gillessen, Dr. S.; Gracia Carpio, Dr. J.; Gräter, A.; Hailey-Dunsheath, Dr. S. (until 30.9.); Herczeg, Dr. G. (until 30.11.); Hofmann, Dr. R.; Kanneganti, Dr. S. (until 30.6.); Katterloher, Dr. R.; Kleiser, A.; Krombach, H.; Kurk, Dr. J.; Lutz, Dr. D.; Magnelli, Dr. B.; Müller, Dr. T.; Nordon Dr. R.; Osterhage, S.; Poglitsch, Dr. A.; Popesso, Dr. P.; Raab, Dr. W.; Rabien, Dr. S.; Rosario, Dr. D.; Saintonge, Dr. A.; Sturm, Dr. E.; Tacconi, Dr. L.; Vilenius, Dr. E.; Wetzstein, Dr. M.; Wuyts, Dr. S.; Zanker-Smith, J.

Guests

Amorim, Prof. A. (5.5.-4.6.); Cuadra, Dr. J. (4.-28.7.); Doty, Dr. S. (25.7.-19.8.); González Alfonso, Prof. E. (13.-27.7.); Fischer, Prof. J. (13.-27.7.); Ibañez, E. (6.7.-15.8.); Jaffe, Prof. D. (30.6.-22.7.); Marcaide, Prof. J. (18.7.-23.12.); Netzer, Dr. H. (10.7.-20.8.); Newman, S. (2.6.-15.7., 30.11.-23.12.); Piqueras López, Dr. J. (2.9.-22.12.); Renzini, Prof. A. (7.-18.3.); Santini, P. (until 17.4.); Sternberg, Prof. A. (3.6.-4.7.); Veilleux, Prof. S. (29.7.-28.8.); Zeidler, P. (30.8.-31.10.)

PhD / Diploma / Master

Buschkamp, P. (Hofmann); Engel, H. (until 28.2., Davies); Fritz, Dipl. Phys. T. (Gillessen); Karska, A. (van Dishoeck); Kister, C. (Gillessen); Lippa, M. (since 24.10., Gillessen); Loose, C. (since 12.9., Rabien); Moch, D. (un-

til 30.6., Gillessen); Orban di Xivry, G. (Rabien); Pfuhl, O. (Eisenhauer)

High-Energy Astrophysics

Secretary: Boller, B.

Team Assistent: Frankenhuizen, W.

Andritschke, Dr. R.; Balestra, Dr. I. (until 31.10.); Becker, Dr. W.; Böhringer, Dr. H.; Boller, Prof. Dr. T.; Bongiorno, Dr. A.; Bräuninger, Dr. H.; Bribian-Sanchez, B. (until 30.4.); Brightman, Dr. M. (until 28.2., since 1.11.); Brunner, Dr. H.; Brusa, Dr. M.; Buchner, J. (since 1.10.); Burkert, Dr. W.; Buron, A. (since 14.2.); Burwitz, Dr. V.; Coppa, Dr. G. (until 31.8.); Dennerl, Dr. K.; Diehl, Dr. R.; Dwelly, Dr. T. (since 21.11.); Elbs, Dr. J.; Eder, Dipl.-Ing. J.; Fassbender, Dr. R.; Filgas, Dr. R. (since 1.11.), Finoguenov, Dr. A.; Foley, Dr. S.; Freyberg, Dr. M.; Friedrich, Dr. P.; Gaida, R.; Georgakakis, A. (since 1.9.); Greiner, Dr. J.; Guglielmetti, F.; Haberl, Dr. F.; Hahn, A. (since 1.9.); Hartmann, K.; Hartner, Dipl.-Math. G.; Henze, Dr. M. (since 1.3.); Kienlin von, Dr. A.; Kimmel, Dr. N. (until 30.9.); Kim, J.W.; Koceluch, L. (until 30.9.); Komossa, Dr. S. (until 31.3.); Krühler, Dr. T. (until 31.5.); Lemson, Dr. G.; Lerchster, M. (until 31.1.); Maggi, P. (since 1.9.); Martin, Dr. P. (until 31.1.); Meidinger, Dr. N.; Merloni, Dr. A.; Mühlegger, Dr. M. (until 31.8.); Nardini, Dr. M. (until 13.3.); Pfeffermann, Dipl.-Phys. E.; Pierini, Dr. D. (until 28.2.); Pietsch, Dr. W.; Predehl, Dr. P.; Rau, Dr. A.; Rommerskirchen, T. (since 1.6.); Rovilos, Dr. M. (until 28.2.); Savaglio, Dr. S.; Schaller, G.; Schopper, Dr. F.; Schady, Dr. P.; Stefanescu, A.; Strong, Dr. A.; Strüder, Prof. Dr. L.; Treis, Dr. J.; Voges, Dr. W.; Vongehr, Dr. M.; Walther, S. (since 14.11.); Winter, Dr. A.; Zhang, Dr. X.-L.

Guests

Aird, Dr. J. (14.-17.6.); Ajello, Dr. M. (26.-30.1.); Balestra, Dr. I. (since 1.11.); Cappi, Dr. M. (1.4.-31.5.); Dainotti, M.G. 10.-11.1.); Iovino, A. (23.-25.2.); Pressato, V. (23.-25.2.); Filipovic, Dr. M. (1.9.-3.10.); Georgakakis, Dr. A. (4.-7.4.); Hatzidimitriou, Prof. D. 22.-28.2.); Hohle, Dr. M. (3.4.-9.5.); Miniutti, Dr. G. (23.-25.11.); Nicastro, Dr. L. (2.-7.5.); Pace, F. (12.-14.10.); Prochaska, Dr. J. (26.-28.7.); Sarazin, Dr. G. (1.-3.12.); Volonteri, Dr. M. (8.-12.11.); Wang, Dr. W. 14.-19.9.)

PhD / Diploma / Master

Bähr, A. (Strüder); Bernhardt, M.G. (Becker); Buchner, Dipl. Ph. J. (since 1.9.); Georgakakis, A. (Nandra); Burlon, D. (Greiner); Buron, A. (until 31.1., Predehl); Capelli, R. (Predehl); Chaudhary, Dipl.-Phys. P. (until 31.10., Hasinger); Granato, Dipl.-Phys. St. (Strüder); Elliot, Dipl.-Phys. J. (Greiner); Erfanianfar, G. (Finoguenov); Fedl, V. (until 30.6., Strüder); Filgas, R. (until 31.10., Greiner); Fürmetz, Dipl.-Phys. M. (Predehl); Gruber, D. (Greiner/ von Kienlin); Henze, Dipl.-Phys. M. (until 28.2., Pietsch); Holland, J. (since 1.9., Böhringer); Hsu, L.-T. (since 1.9., Salvato, Nandra); Jocham, C. (Becker); Kretschmer, Dipl.-Phys. K. (until 13.9., Diehl); Lauf, T. (Strüder); Milles, L. (since 5.5.); Maggi, P. (since 1.9., Haberl); Mirkazemi, M. (since 1.10., Finoguenov); Nastasi, A. (Böhringer); Olivares, F. (Greiner); Prinz, T. (Becker); Reichert, A. (until 28.2., Böhringer); Schmalzer, Dipl.-Phys. G. (Meidinger); Sturm, R. (Haberl); Sudilovsky, Dipl. Phys. V. (since 1.9., Greiner); Suhada, Dipl. Phys. R. (until 14.9., Böhringer); Weissmann, Dipl. Phys. A. (Böhringer); Ziparo, F. (Böhringer)

Theory and Complex Plasma

Secretary: Langer, A.

Antonova, Dr. T.; Aschenbrenner, Dr. T.; Bandyopadhyay, Dr. P.; Brandt, Dr. P.; Bunk, Dr. W.; Chaudhuri, Dr. M.; Couédel, Dr. L. (until 15.1.); Höfner, Dipl.-Phys. H. (until 30.11.); Hou, Dr. L. (until 28.2.); Ivlev, Dr. A.; Khrapak, Dr. S. (until 28.2.); Klumov, Dr. B. (until 31.7.); Knapek, Dr. C.; Konopka, Dr. U.; Kretschmer, Dr. M.; Li, D.; Li, Dr. Y.; Mitic, Dr. S.; Monetti, Dr. R.; Nosenko, Dr. T.; Pustylnik, Dr. M.; Räch, Dr. C.; Rubin-Zuzic, Dr. M.; Scheingraber, Dr. H.; Schwabe, Dr. M.; Shimizu, Dr. T.; Shimizu, Dr. S.; Sidorenko, Dr. I.; Sütterlin, Dr. R.; Taghizadeh, Dr. L. (since 1.11.); Thoma, Dr. M.; Thomas, Dr. H.; Yaroshenko, Dr. V.; Zhdanov, Dr. S.; Zimmermann, Dr. J.

Guests

Atmanspacher, H. (13.-19.2.); Hartquist, T. (16.-23.7.); Khrapak, A. (until 28.2.); Tsyтовich, V. (until 26.4.); Vladimirov, S. (15.-20.5.)

PhD / Diploma / Master

Avvisati, G. (since 1.3., Ivlev); Boxhammer, V. (Zimmermann); Du, Ch. (Thomas); Du, Y. (since 1.12., Y. Li); Fink, Dipl.-Phys. M. (Morfill); Heidemann, R. (Thomas); Huber, Dipl.-Phys. P. (Morfill); Jeon, J. (Zimmermann); Jiang, Ke (until 31.8., Morfill); Klämpfl, T. (Zimmermann); Köritzer,

J. (Zimmermann); List, J. (until 31.5., Morfill); Modest, H. (Räch); Mihatsch, Dipl. Phys. S. (until 31.8., Morfill); Röcker, Dipl.-Phys. T. (Ivlev); Rossmann, Dipl. Phys. G. (Morfill); Semenov, A. (Thomas); Wörner, L. (Thoma)

Optical and Interpretative Astronomy

Secretary: Ingram C.; Niebisch, B.

Aswathanarayan, C.; Bode, Dr. A.; Bohnet, A.; Davis, Dr. A. (since 1.8.); Drory, Dr. N. (1.7.-15.8.); Erwin, Dr. P.; Geis, Dr. N.; Gerhard, Prof. Dr. O.; Grupp, Dr. F.; Höfner, H.; Hopp, Dr. U.; Junk, Dr. V. (until 31.8.); Katterloher, Dr. R.; Kormendy, Prof. Dr. J. (until 31.12.); Lahav, Dr. O. (1.-30.9.); Landriau, Dr. M.; Martinez-Valpuesta, Dr. I.; Mazzalay, Dr. X.; Morganti, L.; Muschiello, B.; Phleps, Dr. S.; Powell, L. (until 31.8.); Rubin-Zuzic, Dr. M. (until 30.4.); Saglia, PD Dr. R.; Saha, Dr. K.; Sanchez, Dr. A.; Senger, Dr. R.; Snigula, J.; Steele, Dr. P.; Thomas, Dr. J.; Ventimiglia, Dr. G. (until 30.6.); Weller, Prof. Dr. J.; Williams, Dr. M. (since 1.6.); Wilman, Dr. D.; Wu, Dr. X. (until 14.6.); Ziaepour, Dr. H.

Guests

Beifiori, A. (13./14.3.); Drory, N. (20.-27.3.; 24.4.-1.5.); Ferreras, I. (7.-9.3.); Fischer, D. (24.-30.7.); Grassi, T. (2.-5.5.); Haas, M. (4.-8.7.); Hui, D. (24.7.-7.8.); Monna, A. (20.3.-27.03.); Rossi, G. (14.-17.4.); Swinbank, M. (23.-26.2.); Williams, M. (14.-16.3.); Wolstenhulme, R. (1.-31.8.)

PhD / Diploma / Master

Beck, A. (Bender); Behrendt, M. (Bender); Bogner, S. (Grupp); Brucalassi, A. (Saglia); Cappetta, M. (Saglia); Chatzopolous, S. (Gerhard); Connelly, J. (until 30.6., Wilman); Fabricius, M. (until 28.2.; Bender); Häuser, M. (Hopp); Kosyra, R. (until 31.8., Bender); Kotarba, H. (until 30.6.; Bender); Kulkarni, S. (ab 1.9.); Saglia; Longobardi, A. (since 1.5., Gerhard); Markovitch, K. (Weller); Monna, A. (since 1.5.; Bender); Morganti, L. (Gerhard); Opitsch, M. (since 1.12.; Saglia); Pekruhl, S. (Bender); Rosotti, G. (since 1.10., Bender); Rusli, S. (until 30.4.; Saglia); Strübig, C. (until 28.2., Bender); Wulstein, P. (since 1.11., Saglia); Zendejas, J. (Saglia)

Research Group Burkert

Burkert, Prof. Dr. A.; Dobbs, C.; Krause, Dr. M.; Schartmann, Dr. M.

PhD / Diploma / Master

Alig, C.; Hirschmann, M.; Ntormousi, E. (until 30.9.); Oser, L.

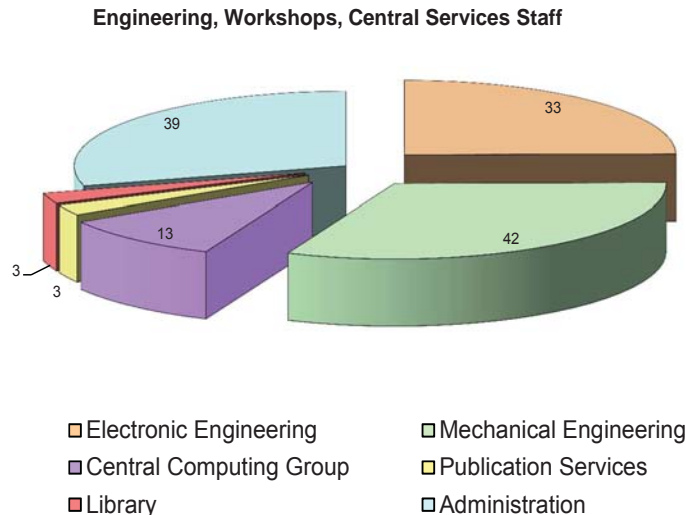
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Dalla Vecchia, Dr. C.; Durier, Dr. F. (until 30.9.); Gaibler, Dr. V.; Johnson, Dr. J. (until 2.8.); Khochfar, PD Dr. S.; Maio, Dr. U.; Neistein, Dr. E.; Paardekooper, Dr. J.-P.

PhD / Diploma / Master

Agarwal, B.

Engineering and Workshops



Electronic Engineering

Tarantik, Dipl.-Ing. K. (Head of Electronics)

Albrecht, Dipl.-Ing. S.; Barl, Dipl.-Ing. (FH) L.; Bornemann, Dipl.-Ing. (FH) W.; Burghardt, Dipl.-Ing. (FH) T.; Cibooglu, H.; Deuter, M.; Emslander, A.; Gressmann, R.; Hagl, Dipl.-Ing. (FH) T.; Hälker, Dipl.-Ing. (FH) O.; Hans, O., Hengmith, M.; Herrmann, Dipl.-Ing. (FH) S.-C. (until 30.9.); Kellner, Dipl.-Ing. (FH) S.; Kink, Dipl.-Ing. (FH) W.; Langer, P.; Lederer, R.; Mießner, D.; Müller, Dipl.-Ing. (FH) S.; Oberauer, F.; Plasoianu, Dipl.-Ing. G.; Rau, Dipl.-Ing. (FH) C.; Reiffers, J.; Reiss, P.; Rupprecht, T.; Schneider, M.; Schrey, F.; Tomic, K.; Wildgruber, Dipl.-Ing. G.; Yaroshenko, V.; Zanker-Smith, J.; Zhang, Z.; Ziegleder, Dipl.-Ing. (FH) J.

Mechanical Engineering

Thiel, Dipl.-Ing. M. (until 30.9., Head of Mechanik)

Schubert, Dr. J. (since 1.12., Head of Mechanik)

Blasi, T.; Deysenroth, C.; Deysenroth, M.; Dittrich, Dipl.-Ing. (FH) K.; Gemperlein, Dipl.-Phys. H.; Haug, Dipl.-Ing. (FH) M.; Haußmann, F.; Huber, Dipl.-Ing. H.; Liebhardt, J.

(until 30.9.); Mayr-Ihbe, R.; Mican, Dipl.-Ing. B.; Paßlach, Dipl.-Ing. (FH) S.; Penka, D. (since 1.2.); Pietschner, Dipl.-Ing. (FH) D.; Plangger, M.; Rohe, C.; Schreib, R.; Stadler, G. (until 31.3.); Strecker, R.; Tiedemann, Dipl.-Ing. L.

Mechanical Workshop

Czempiel, S. (Head of Mechanical Workshop)

Bayer, R.; Brandstetter, J. (until 31.7.); Brara, A.; Budau, B.; Dietrich, G.; Eibl, J.; Feldmeier, P.; Gahl, J.; Goldbrunner, A.; Hartwig, J.; Honsberg, M.; Huber, D. (since 1.2.); Huber, F.-X.; Huber, S.; Kestler, H.-J.; Mayr, R.; Sandmair, R.; Schneider, A.; Schnell, P.; Schunn, W.; Senftleben, S. (since 1.2.); Soller, F.; Straube, P.

Apprentices

Cziasto, D.; Greil, M.; Hiefinger, M.; Huber, D. (until 31.1.); Kratschmann, T.; Mihé, F.; Müller, M.; Reinold, A.; Senftleben, S. (until 31.1.); Wachendorf, M.

Student Assistants, Interns und Temporary Employees

Student Assistants

Frost, C.; Llobet Blandino, F.; Leute, J.; Lutz, K.; Müller, A.; Ovari, S.; Salzgerber, M.;

Internships

Work Experience (Schools)

Grosso, F.; Hujber, A.; Mehrgan, K.; Moebius, M.; Nuhui, F.; Pakari, O.; Perl, A.; Scheffler, J.; Schneider, C.; Semenov, M.; Tacconi-Garman, E.; Thoma, T.; Weidinger, J.

Work Experience (University)

Boose Y.; Bribian, E.; Famulok, N.; Kurowski, M.; Lüst, M.; Prade, L.; Zeidler, P.

Temporary Employees

Baumgartner, J.; Bogner, S.; Breithuth, F.; Breuning, E.; Christof, J.; Hübner, R.; Ingram, E.; Ingram, M.; Knapp, J.; Müller, M.; Müller, S.; Oberauer, A.; Paul, A.; Sedlmeir, G.; Zeindl, F.

Central Services

Computing

Central Computing Committee

Haberl, Dr. F. (Head)

Bohnet, Dipl.-Phys. A.; Burwitz, Dr. V.; Lutz, Dr. D.; Müller, Dipl.-Ing. (FH) S.; Ott, Dr. T. (deputy); Rubin-Zuzic, Dr. M.; Sütterlin, R.; von Kienlin, Dr. A.

Central Computing Support Group

Haberl, Dr. F. (Head)

Baumgartner, H. (Network, System support High-Energy); Bohnet, Dipl.-Phys. A. (system support Optical and Interpretative Astronomy); Bribian-Sanchez, B. (System support High-Energy); Kleiser, A. (printer maintenance); Klose, L. (Network, System support); Kollmer, C. (System support PC and Linux); Oberauer, A. (Software, PC support); Ott, Dr. T. (system support Infrared); Paul, J. (Network, System support High-Energy, data security official); Sigl, Dipl.-Ing. (FH) R. (network management); Snigula, J. (Support Optical and Interpretative Astronomy); Steinle, Dr. H. (data banks, archive systems, WWW); Wieprecht, Dipl.-Ing. E. (Support Infrared); Wiezorrek, Dipl.-Ing. (FH) E. (Support Infrared)

Publication Services and Copy Shop

Hauner, R.; Mayr-Ihbe, R.; Mory, B.

Library

Chmielewski, E. (Head)

Blank, E.; Hardt, C.

Administration

Ihle, M. (Head of VAD)

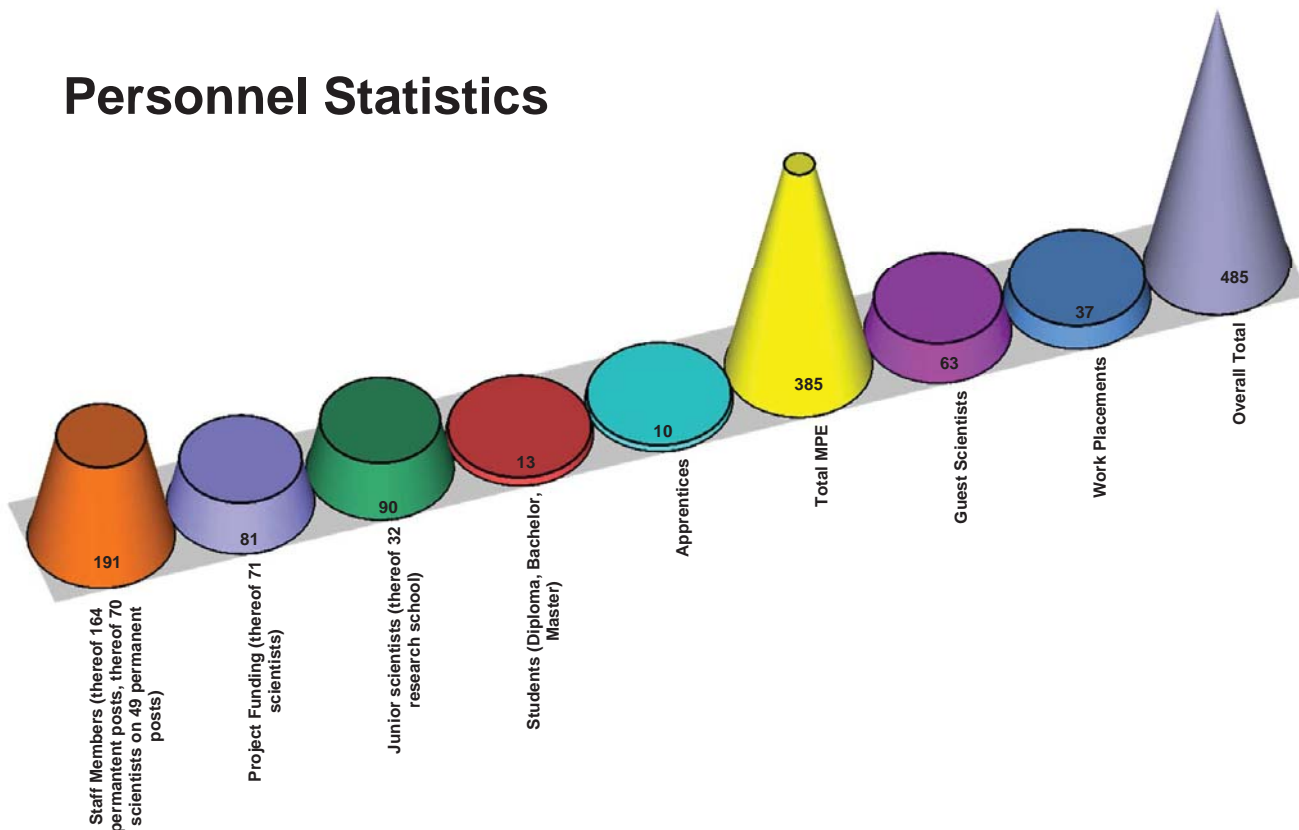
Sekretariat: Kliem, V.

Altlinger, C.; Apold, G.; Arturo, A.; Bauernfeind, M; Bitzer, U.; Blascheck, M.; Cziasto, U.; Doll, E.; Eicher, C.; Ertl, M.; Goldbrunner, S.; Grasmann, M; Grohmann, M.; Gschnell, H.-P.; Inhofer, I.; Jäkel, T.; Jirsch, J.; Karing, W.; Keil, M.; Kestler, L.; Kürzinger, T.; Kuhwald, E.; Mayer, L.; Nagy, A.; Neun, A. (BR); Peischl, M.; Preisler, C.; Reither, A.; Rochner, R.; Rossa, E.; Sandtner, P.; Sarsilmaz, E. (until 31.5.); Scheiner, B.; Schwaiger, S.; Steinle, R.; Strecker, R.; Thiess, L.; Vogt, J.P.

IMPRS

Collmar, E.; Schubert, V. (since 1.7.)

Personnel Statistics

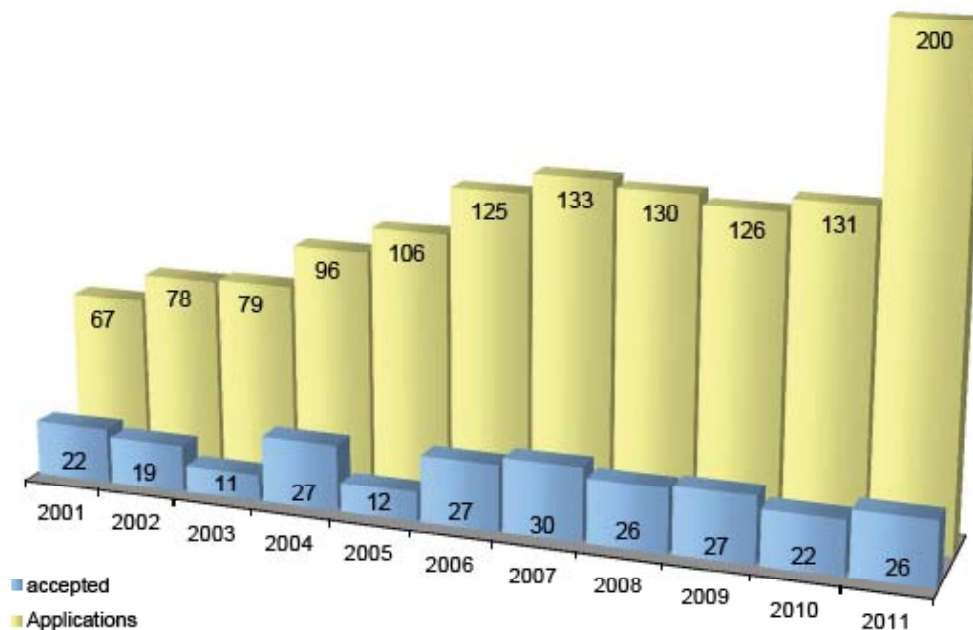


International Max-Planck Research School (IMPRS) for Astrophysics

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 2011 a total of 80 students took part in the program, thereof 32 at the MPE. 200 students applied for the year 2012, 26 of those were accepted (up to April 2012).

IMPRS Applications since 2001



Summary of annual applications for the participation in the IMPRS program in Garching. Since its start in 2001 a total of 1271 students applied.

PR Work

MPE is engaged in public relations work and education. The activities in 2011 were: 28 public talks, 4 popular science articles, 16 press releases/news (thereof 8 with MPE leadership), 28 guided tours through the institute (mainly scientifically orientated school classes), supervising 13 internships of high school students

(1-2 weeks) and 7 university students (4-8 weeks) and 50 girls were introduced to MPE in the federal initiative "Girl's Day". 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.

GRAVITY

Eisenhauer, Gillessen, Gräter, Haug, Hofmann, Kellner, Kister, Krombach, Lippa, Moch, Pfuhl, Sturm, Thiel, Wieprecht, Zanker-Smith.

Herschel-PACS

Berta, Contursi, Doublier Pritchard, de Jong, Feuchtgruber, Geis, Gueguen, Kleiser, Krombach, Lutz, T. Müller, Osterhage, Poglitsch, Popesso, Sturm, Vilenius, Wetzstein, Wieprecht, Wiezorrek.

KMOS

Agudo Berbel, Davies, Wiezorrek.

LBT Argos

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

LBT Lucifer

Buschkamp, Eibl, Eisenhauer, Gemperlein, Gräter, Hofmann, Honsberg, Kurk, Lederer, Nordon, Straube.

MICADO

Barl, Davies, Eisenhauer, Förster Schreiber, Thiel.

Sofia-FIFI-LS

Geis, Oberauer, Poglitsch, Raab.

SPICA-SAFARI

Barl, Geis, Poglitsch, Raab.

Galaktisches Zentrum

Dodds-Eden, Eisenhauer, Fritz, Genzel, Gillessen, Ott, Pfuhl.

Galaxienkerne

Contursi, Davies, Engel, Genzel, Gracia Carpio, Hayley-Dunsheath, Lutz, Orban de Xivry, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung

Berta, Buschkamp, Eisenhauer, Förster Schreiber, Genel, Genzel, Kurk, Loose, Lutz, Magnelli, Nordon, Popesso, Rosario, Saintonge, Sturm, Tacconi, Wuyts.

Sternentstehung

Bruderer, Fedele, Herczeg, Karska, van Dishoeck.

High-Energy Astrophysics

CAST

Bräuninger, Strüder.

Chandra

Burwitz, Predehl.

Athena

Becker, Boller, Brusa, Burkert, Burwitz, Eder, Finoguenov, Freyberg, Friedrich, Haberl, Herrmann, Lechner, Merloni, Mießner, Nandra, Predehl, Schaller, Schopper, Stefanescu, Strüder, Treis, Trümper, Vongehr, Weidenspointner, Winter.

eROSITA

Andritschke, Bornemann, Bräuninger, Brunner, Budau, Burkert, Burwitz, Dennerl, Eder, Eibl, Freyberg, Friedrich, Fürmetz, Gaida, Granato, Haberl, Hälker, Hartmann, Hartner, Hengmith, Hermann, F. Huber, H. Huber, Kink, Meidinger, Mican, Mühlegger, S. Müller, Nandra, Pfeffermann, Pietschner, Predehl, Rohe, Rommerskirchen, Schmalzer, Schreiber, Schrey, Strüder, Tiedemann, Vongehr.

ROSAT

Haberl, Voges.

Swift

Burlon, Greiner, Rau, Schady.

XMM-Newton

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

Fermi

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

GROND

Elliot, Filgas, Greiner, Olivares, Schady, Schrey, Sudilovsky.

INTEGRAL

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

MXT-SVOM

Meidinger, Strüder.

OPTIMA

A. Rau, Schrey, Steinle.

4MOST

Böhringer, Boller, Dwelly, Merloni.

Aktive Galaxien

Boller, Burlon, Nandra.

Clusters of Galaxies

Böhringer, Chou, Fassbender, Finoguenov, Holland, Nastasi, Pierini, Verdugo, Weißmann, Ziparo.

Cosmic Rays

Strong.

Gamma-Ray Bursts

Burlon, Elliot, Filgas, Greiner, Olivares, A. Rau, Savaglio, Schady, Sudilovsky.

Hochenergie Astrophysik

Braglia, Böhringer, Chon, Faßbender, Giodini, Mois, Nastasi, Pierini, Pratt, Reichert, Santos, Simionescu, Suhada, Verdugo, Ziparo.

Kompakte Objekte

Becker, Burwitz, Greiner, Haberl, Nandra, A. Rau.

Nahe Galaxien

Freyberg, Haberl, Pietsch.

Nukleare Astrophysik

Diehl, v. Kienlin, Kretschmer.

Virtual Observatories

Kim, Lemson, Voges.

Theory und Complex Plasmas

Adaptive Electrode

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

Diamant-Labor

Morfill, S. Shimizu, Thomas.

GEC-Labor

Chauduri, Du, Konopka, Morfill, Nosenko, Pustyl'nik, Rubin-Zuzic, Sütterlin, Thomas, Wörner.

Hochfeld-Labor

Bandyopadhyay, Konopka, Morfill, Tarantik, Thomas.

PK-3 Plus

Du, Hagl, Heidemann, P. Huber, Ivlev, Konopka, Khrapak, Morfill, Rubin-Zuzic, Schwabe, Sütterlin, Tarantik, Thomas, Zhdanov.

PK-4

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

Plasmalab

Hagl, Ivlev, Knapek, Konopka, Morfill, Rubin-Zuzic, Thomas, Wildgruber.

Plasma Medizin

Boxhammer, Bunk, Czempel, Deckelmann, Jeon, Klämpfl, Köritzer, A. Langer, D. Li, Y. Li, Milles, Mitra, Monetti, Morfill, S. Shimizu, T. Shimizu, Steffes, Stemmer, Taghizadeh, Tarantik, Thomas, Yaroshenko, Zimmermann.

Praktikumsversuch "Plasmakristall"

Brandt, Heidemann, Kretschmer, Morfill, Schwabe, Thoma.

Streifenelektrode

Höfner, Ke, Konopka, Y. Li, Morfill, Steffes, Thomas.

ERC Grant

Brandt, Ivlev, Morfill.

Nichtlineare Dynamik, Komplexe Systeme

Aschenbrenner, Bauer, Bunk, Mihatsch, Modest, Monetti, Müller, R  th, Rosmanit, Scheingraber, Sidorenko.

Optical and Interpretative Astronomy

ASTRO-WISE

Bender, Saglia, Wilman.

EUCLID

Bender, Grupp, Saglia.

KMOS

Bender, Saglia.

MICADO

Bender, Saglia.

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 (2011), Garching

Becker

Doktorandenseminar mit den IMPRS Studenten

Böhringer

Introduction to Cosmology and the study of Large-Scale Structure

Burkert

Introductory Course

LMU München

Bender

Astronomisches Hauptseminar zur Astrophysik (WS 10/11)

Astrophysikalisches Praktikum „A“ und Übungen (WS 10/11)

Astrophysikalisches Praktikum „B“ und Übungen (WS 10/11)

Astronomisches Kolloquium (WS 10/11, SS 11, WS 10/11)

Extragalactic Journal Club (E) (WS 10/11)

Extragalactic Group Seminar (WS 10/11)

Einführung in die fortgeschrittene Astrophysik II (Introduction to Advanced Astrophysics II) (SS 11)

Ergänzung zur Vorlesung P4.1 "Einführung in die fortgeschrittene Astrophysik II" (SS 11)

Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert, "Tools in modern astrophysics" (SS 11)

Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert, "Tools in modern astrophysics" (SS 11)

"Project Seminar: Galaxies". Projektseminar aus dem Bereich der Kosmologie, der großräumigen Strukturen, der Struktur von Galaxien und der Dunklen Materie sowie der Dunklen Energie, der Schwarzen Löcher und der Gravitationslinsen (SS 11)

Grundlagen der fortgeschrittenen Astrophysik (Essentials of Advanced Astrophysics), mit Saglia (WS 10/11)

Ergänzung zur Vorlesung P1.1 "Grundlagen der fortgeschrittenen Astrophysik" (WS 11/12)

Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert, "Tools in modern astrophysics" (WS 11/12)

Technische Universität München

Diehl

Lecture "Observational High-Energy Astrophysics" (SS 11)

Seminar "Nuclei in the Cosmos", "The Evolution of Metallicity in the Universe", Astrophysikalisches Seminar mit Professoren vom TUM/LMU/MPA (WS 10/11)

Seminar "Nuclei in the Cosmos", "Nuclear Reactions in Cosmic Nucleosynthesis", Astrophysikalisches Seminar mit Professoren vom TUM/LMU/MPA (WS 11/12)

Eisenhauer

Einführung in die Astrophysik (WS 10/11, WS 11/12)

Thoma/Kretschmer/Schwabe

Fortgeschrittenen Praktikum III und IV - Versuch 03: Plasmakristall (WS 10/11)

Goethe-Universität Frankfurt

Boller, Th.

Einführung in die Astronomie I (SS 11)

Physik Aktiver Galaxien (WS 11/12)

Heinrich-Heine-Universität Düsseldorf

Ivlev

Complex plasmas - plasma state of soft matter (SS 11)

Universität Giessen

Thoma

Theoretische Plasmaphysik (WS 10/11)

Universität Würzburg

Kanbach

Hochenergie Astrophysik (SS 11)

Summer Schools

Summer School Alpbach 2011

Poglitsch

Star Formation Across the Universe: Instrumentation Techniques - Scientific Background (SS 11)

Organisation of Seminars / Conferences

HIPE Forum 2011, Garmisch-Partenkirchen, Germany, 28.-30.6.2011, Organisation: E. Sturm, E. Wieprecht, J. Riedinger.

Star Formation in Galaxies: The Herschel Era, Ringberg Castle, Germany, 19.-25.6.2011, Organisation: D. Lutz, L. Tacconi, E. Sturm.

Adaptive Optics for Extremely Large Telescopes II, Victoria, Canada, 25.-30.9.11, Organisation: J.-P. Veran, T. Fusco, Y. Clenet, A. Bouchez, R. Conan, J.-G. Cuby, R. Davies, B. Ellerbroek, S. Esposito, Y. Hayano, P. Hickson, N. Hubin, M. Kasper, M. Kenworthy, O. Lardiere, M. Hart, C. Max, R. Myers, F. Rigaut, T. Rimelle, N. Thatte, M. Troy.

Star formation across space and time: Frontier science with the LBT and other large telescopes, Tucson, AZ, USA, 30.3.-2.4.2011, Organisation: X. Fan, R. Green, T. Henning, R. Kennicutt, S. Kim, J. Kurk, R. Maiolino, C. Scarlata, T. Thompson, T. Thuan.

Kick-Off Meeting of the DFG priority program 1573, Freising, Germany, 2.-3.5.2011, Organisation: M. Scharfmann, A. Burkert, R. Klessen.

Herschel Calibration Steering Group Meeting, MPE, Garching, Germany, 9.9.2011, Organisation: T.G. Müller.

Gas in Galaxies: from Cosmic Web to Molecular Clouds, Kloster Seeon, Germany, 14.-18.6.2011, Organisation: G. Kauffmann (co-chair), L. Staveley-Smith (co-chair), B. Cattinella, E. de Blok, T. Heckman, B. Koribalski, M. Putman, J. Schaye, D. Schiminovich, L. Tacconi, M. Verheijen.

The Physics of Galaxy Formation, Durham, UK, 18.-22.7.2011, Organisation: C. Frenk (co-chair), S. White (co-chair), S. Ellison, T. Heckman, L. Hernquist, R. Ivison, G. Kauffmann, H.-W. Rix, J. Schaye, C. Steidel, L. Tacconi.

Multiwavelength Views of the ISM in High-Redshift Galaxies, Santiago, Chile, 27.-30.6.2011, Organisation: J. Wagg (chair), C. de Breuck (co-chair), A. Baker, C. Carilli, L. Infante, R. Ivison, R. Maiolino, A. Peck, D. Riechers, L. Tacconi, F. Walter, T. Wiklind, M. Yun.

Watching Galaxies Grow Up, Ringberg Castle, Germany, 4.-9.12.2011, Organisation: K. Jahnke (co-chair), A. van der Wel (co-chair), E.F. Bell, R. Bower, E. Daddi, J. Dunlop, S. Faber, M. Franx, A. Maccio, R. Maiolino, H.-W. Rix, R. Somerville, C. Steidel, L. Tacconi, P. van Dokkum.

Astronomy with Radioactivities VII, Phillip Island, Victoria, Australia, 1.-3.3.2011, Organisation: R. Diehl, M. Lugaro, D.H. Hartmann, N. Prantzos, M. Newington.

First International eROSITA conference, Garmisch-Partenkirchen, Germany, 17.-20.10.2011, Organisation: A. Merloni (Chair), P. Predehl (co-chair), M. Arnaud, Y. Balega, T. de Zeeuw, G. Evrard, A. Fabian, K. Nandra, S. Sazonov, A. Schwobe, R. Sunyaev, Y. Ueda, M. Urry, J. Wilms.

First ATHENA Science Workshop, Garching bei München, Germany, 14.-15.6.2011, Organisation: K. Nandra (chair), X. Barcons, D. Barret, A. Decourchelle, T. Dotani, J.W. den Herder, D. Lumb, G. Matt, L. Piro, S. Sciortino, L. Strüder, M. Watson, N. White, D. Willingale.

EWASS2011 EAS Symposium "Combined Ra6.2011. Organisation: G. Paschmann.

Workshop on Particle Acceleration in Cosmic Plasmas, International Space Science Institute, Bern, Switzerland, 16.-20.5.2011, Organisation: A. Balogh, A. Bykov, R.P. Lin, J. C. Raymond, M. Scholer.

Transport Processes and Accretion in YSOs, Schloss Ringberg, Germany, 7.-11.2.2011, Organization: G.J. Herczeg (chair), R. van Boekel (co-chair), A. Sicilia-Aguilar, S. Fromang, L. Hartmann, T. Henning, S. Matt, J. Muzerolle, A. Reiners, M. van den Ancker.

Formation and Early Evolution of Very Low Mass Stars and Brown Dwarfs, ESO, Garching, Germany, 11.-14.10.2011, Organization: I. Baraffe, M. Bate, A. Burkert, F. Comerón, E. van Dishoeck, G. Herczeg, K. Luhman, M. Petr-Gotzens (co-chair), T. Preiuntilch, T. Stanke, P. Teixeira, L. Testi (co-chair).

Publications

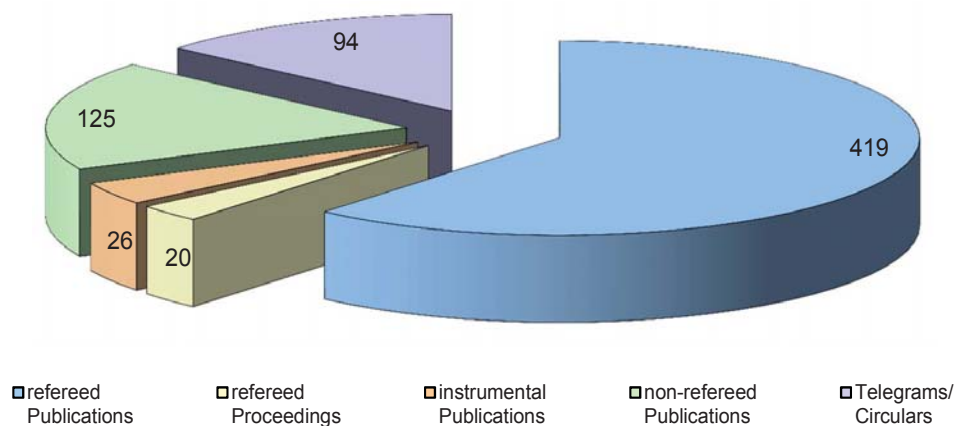
Here we present a tabular and graphical summary of our publication activities in 2011. The publications are counted by science group and publication type. The individual publications are listed consecutively.

Summary of MPE Publications in 2011

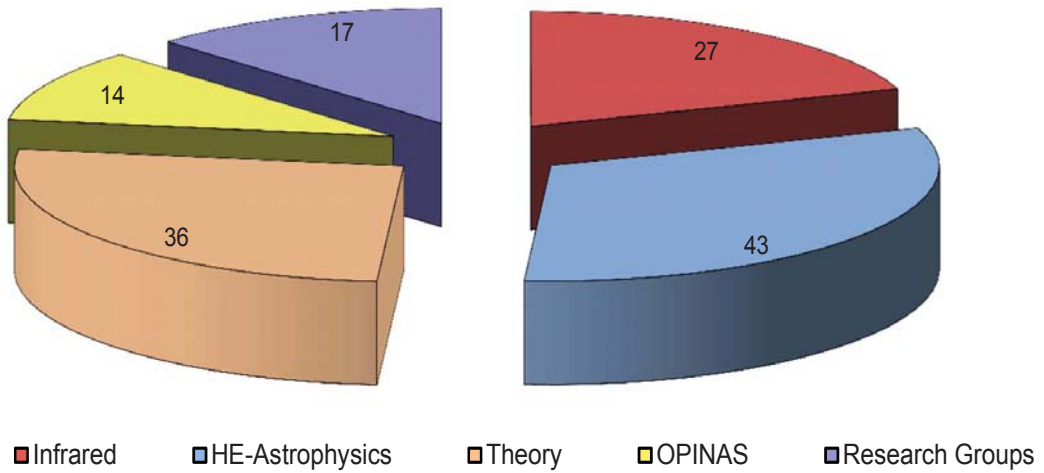
Science Group	refereed Publications	refereed Proceedings	Instrument. Publications	non-refereed Publications	Telegrams/Circulars	Talks	Poster
IR	27 (114)	0 (5)	0 (2)	13 (46)	2 (3)	94 (133)	8
HE Astrophysics	43 (159)	3 (9)	5 (19)	13 (33)	48 (86)	75 (119)	13
Theory	36 (48)	2 (3)	0 (0)	16 (24)	0 (0)	32 (55)	21
OPINAS	14 (64)	3 (3)	0 (5)	3 (14)	1 (4)	27 (39)	3
Research-Groups	17 (34)	0 (0)	0 (0)	5 (8)	0 (1)	16 (18)	0
Total	137 (419)	8 (20)	5 (26)	50 (125)	51 (94)	244 (364)	45

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

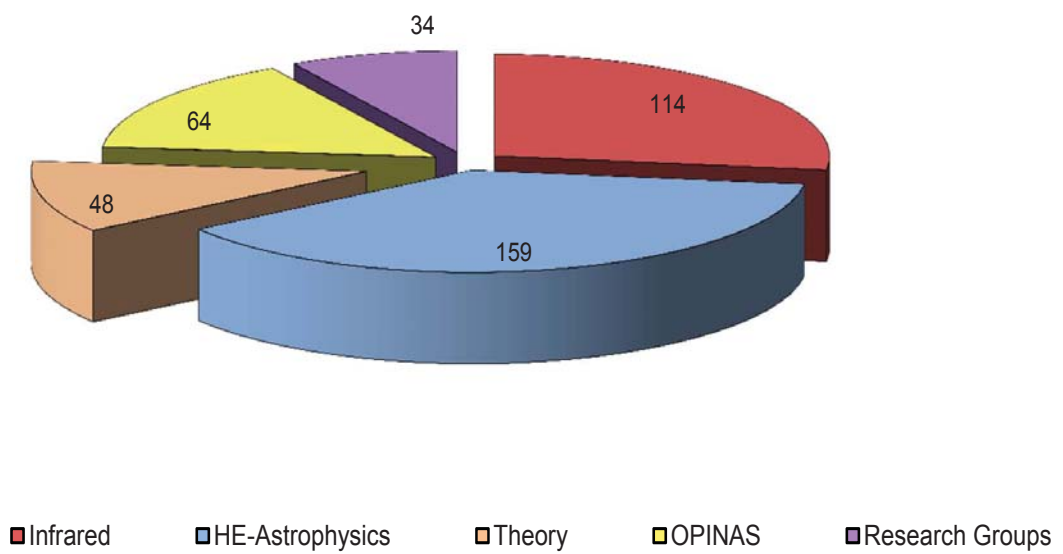
Total MPE Publications 2011 (by type)

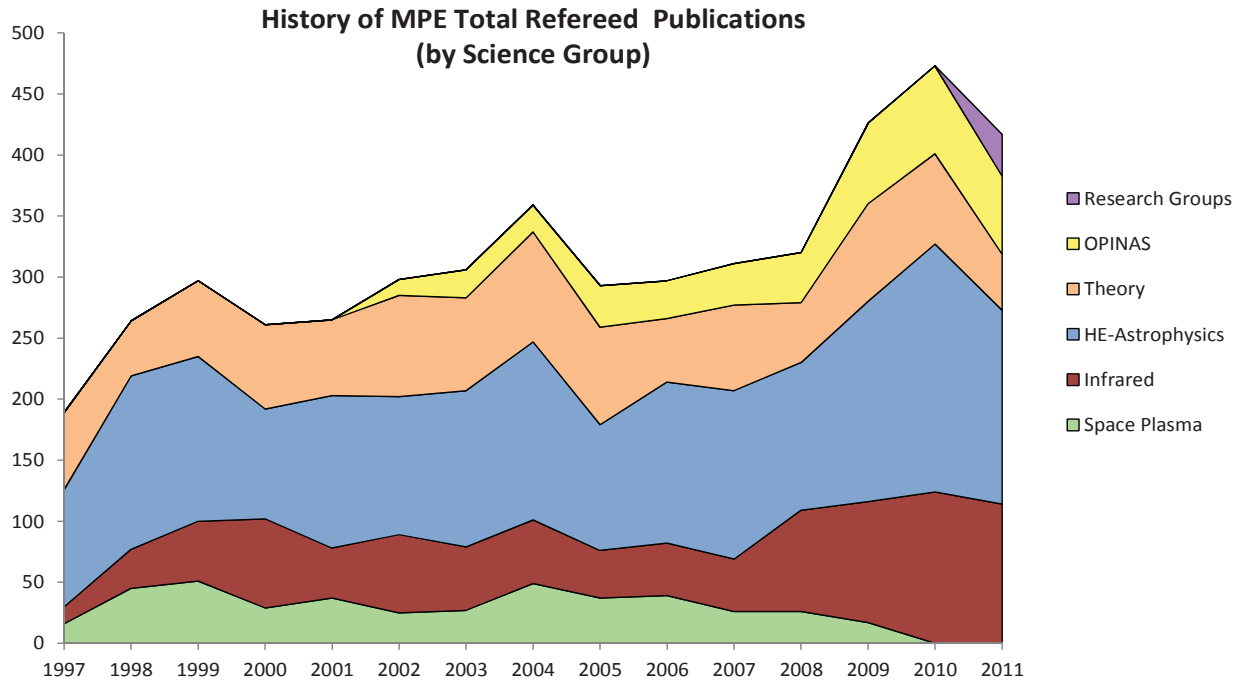


Refereed Publications with MPE first author in 2011 (by Science Group)



Total refereed MPE Publications in 2011 (by Science Group)





Refereed Publications

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- Abboud, A., S. Send, R. Hartmann, L. Strüder, A. Savan, A. Ludwig, N. Zotov and U. Pietsch: Applications of an energy-dispersive pnCCD for X-ray reflectivity: Investigation of interdiffusion in Fe-Pt multilayers. *Physica Status Solidi Applied Research* 208, 2601-2607 (2011).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., A.W. Strong, et al.: Fermi Large Area Telescope Observations of Two Gamma-Ray Emission Components from the Quiescent Sun. *Ap. J.* 734, 116 (2011).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., A. von Kienlin, et al.: Detection of High-energy Gamma-Ray Emission During the X-Ray Flaring Activity in GRB 100728A. *Ap. J. Lett.* 734, L27 (2011).
- Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: The Second Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope. *Ap. J.* 743, 171 (2011).
- Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: A Cocoon of Freshly Accelerated Cosmic Rays Detected by Fermi in the Cygnus Superbubble. *Science* 334, 1103 (2011).
- Ackermann, M., M. Ajello, K. Asano, ..., A. von Kienlin, et al.: Detection of a Spectral Break in the Extra Hard Component of GRB 090926A. *Ap. J.* 729, 114 (2011).
- Ackermann, M., M. Ajello, L. Baldini, ..., A.W. Strong, et al.: Constraints on the Cosmic-ray Density Gradient Beyond the Solar Circle from Fermi γ -ray Observations of the Third Galactic Quadrant. *Ap. J.* 726, 81 (2011).
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- Aghanim, N., M. Arnaud, M. Ashdown, ..., H. Böhringer, ..., J. Weller, et al.: Planck early results. XXVI. Detection with Planck and confirmation by XMM-Newton of PLCK G266.6-27.3, an exceptionally X-ray luminous and massive galaxy cluster at $z \sim 1$. *Astron. Astrophys.* 536, A26 (2011).
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Talks

Becker, W.: Gravitationswellen und deren Nachweis, public talk, Volkssternwarte Göttingen, Göttingen, Germany, January 2011.

Becker, W.: SNRs, ISM, Diffuse Galactic Background, contributed talk, eROSITA Consortium Meeting, Tübingen, Germany, February 2011.

Becker, W.: Studying Neutron Stars with IXO and eROSITA, contributed talk, IXO Science Meeting, Rome, Italy, March 2011.

Becker, W.: The eROSITA All-Sky Survey, invited talk, Guillermo Haro 2011 Workshop: Surveying the gamma-ray sky, Tonantzintla, Mexico, July 2011.

Becker, W.: Pulsars in X-rays, invited talk, APRIM 2011: 11th Asian-Pacific Regional IAU Meeting, Chiang Mai, Thailand, July 2011.

Bernhardt, M.G.: Autonomous Spacecraft Navigation Based on Pulsar Timing Information, contributed talk, 2nd International Conference on Space Technology, Athens, Greece, September 2011.

Berta, S.: Herschel/PEP: Not only high- z star formation, contributed talk, FIR2011: Star formation and feedback in galaxies as revealed by far infrared and submillimeter wavelengths, London, England, September 2011.

Berta, S.: The properties of Herschel/PEP star forming

galaxies, contributed talk, Through the Infrared Looking Glass: A Dusty View of Galaxy and AGN Evolution, Pasadena, USA, October 2011.

Böhringer, H.: Der Dunklen Energie auf der Spur, public talk, MPE Open House, Garching, Germany, October 2011.

Boller, Th.: Anfang und Ende des Universums, public talk, Rotary Club Munich Airport, München Flughafen, Germany, April 2011.

Boller, Th.: Astronomie in der Grundschule, public talk, Grundschule Hallbergmoos, Hallbergmoos, Germany, May 2011.

Boller, Th.: Das Schicksal des Universums: Wie alles begann, wie alles endet, public talk, Westsächsische Hochschule Zwickau, Zwickau, Germany, June 2011.

Boller, Th.: Explaining the global X-ray Baldwin effect with XMM-Newton, contributed talk, The X-ray Universe 2011, Berlin, Germany, June 2011.

Boller, Th.: Inner disc reflection and AGN accretion states: AGN review, invited talk, Frascati Workshop 2011: Multifrequency Behaviour of High Energy Cosmic Sources, Vulcano, Italy, May 2011.

Boller, Th.: Probing the Strong and Weak Field Limit in Active Galaxies with soft X-rays, invited talk, Second Interna-

- tional Symposium on strong magnetic fields and neutron stars, SMFNS2011, Varadero, Cuba, May 2011.
- Boller, Th.: Prospects in testing General Relativity Theories in the strong field limit, invited talk, Symposium on Exciting Physics: quarks and gluons, atomic nuclei, biological systems, networks, Makutsi Safari Farm, South Africa, November 2011.
- Boller, Th.: Prospects in testing General Relativity theories in the strong field limit, colloquium, Colloquium of the Institute of Advanced Studies, FIAS, Frankfurt, Germany, October 2011.
- Boller, Th.: Testing GR theories in the strong field limit, invited talk, First Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics, STARS2011, Havana, Cuba, May 2011.
- Boller, Th.: The 4MOST Facility Simulator: System Specification and Timeline, invited talk, 4MOST Busy Week, Garching, Germany, December 2011.
- Boller, Th.: The 4MOST Facility Simulator: Work Package Description, Requirements, Timeline, invited talk, 4MOST Kick-off meeting, AIP Potsdam, Potsdam, Germany, September 2011.
- Boller, Th.: Unser Universum: Wie alles begann, wie alles endet, public talk, MPE Open House, Garching, Germany, October 2011.
- Brandt, P.: Tunable Potentials in Complex Plasmas, invited talk, ICPDP, Garmisch-Partenkirchen, Germany, May 2011.
- Brusa, M.: AGN evolution from large area & deep X-ray surveys, colloquium, INAF-Osservatorio Astronomico di Padova and Astronomy Department, Padua, Italy, April 2011.
- Brusa, M.: AGN evolution from large area and deep X-ray surveys, invited talk, JENAM2011 EAS Symposium: "Combined Radio/X-rays Approaches to Relativistic Astrophysics", Saint Petersburg, Russia, July 2011.
- Brusa, M.: Challenges for identifications of ATHENA high-z AGN, contributed talk, ATHENA Science Workshop, Garching bei München, Germany, June 2011.
- Brusa, M.: First AGN, invited talk, First Objects, Marseille, France, May 2011.
- Brusa, M.: Perspectives of IXO followup of E-Rosita sources, contributed talk, IXO science meeting: Present status and future prospects in X-ray Astronomy, Rome, Italy, March 2011.
- Brusa, M.: The search for obscured AGN in the COSMOS and CDFS survey, contributed talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Brusa, M.: The stabrust-AGN connection: a causal relation?, invited talk, The Starburst-AGN connection, ESAC-Vilspa, Spain, September 2011.
- Brusa, M.: What we have learned about the identification of X-ray sources: the lesson from the COSMOS X-ray surveys, contributed talk, First International eROSITA conference, Garmisch-Partenkirchen, Germany, October 2011.
- Bunk, W.: Quantitative Analysis of Bacterial Colonies in Images of Petri Dishes, invited talk, International Workshop on Plasma Medicine, Ringberg Castle, Germany, October 2011.
- Collmar, W.: The MeV Point-Source Sky during the COMPTEL Mission, invited talk, COMPTEL Miniworkshop, Würzburg, Germany, February 2011.
- Collmar, W.: Erde, Sonne, Mond und Sterne: Eine Reise ins Weltall, public talk, Montessori Schule München, München, Germany, July 2011.
- Collmar, W.: Das MPE und seine Wissenschaft, public talk, Max-Planck-Tag am MPE, MPE, Garching, Germany, November 2011.
- Dalla Vecchia, C.: From OWLS to FiBY: numerical simulations of galaxy formation and evolution, colloquium, Texas Cosmology Center, Austin, USA, October 2011.
- Dalla Vecchia, C.: The First Billion Years simulation. The oldest population of globular clusters. Hints from high redshift., invited talk, First galaxies, Ringberg, Germany, June-July 2011.
- Davies, R.: Cosmic Evolution of NLS1s and the Growth of their Black Holes, contributed talk, Narrow Line Seyfert 1 Galaxies and their Place in the Universe, Milan, Italy, April 2011.
- Davies, R.: Do stars contribute to AGN fuelling?, invited talk, The Starburst-AGN Connection under the Multiwavelength Limelight, Mardid, Spain, September 2011.
- Davies, R.: Do stellar winds play a decisive role in feeding AGN, invited talk, The Central Kiloparsec in Galactic Nuclei, Bad Honnef, Germany, August 2011.
- Davies, R.: Science Driven AO Performance Metrics, contributed talk, Adaptive Optics for Extremely Large Telescopes II, Victoria, Canada, September 2011.
- Davies, R.: Science from VLT: Adaptive Optics Observations, invited talk, European Interferometry Initiative: AGNs and the Galactic Center, Lisbon, Portugal, November 2011.
- Davies, R.: Star Formation around local AGN, invited talk, Star Formation in Galaxies: The Herschel Era, Ringberg, Germany, June 2011.
- Davies, R.: The Impact of Nuclear Star Formation on Gas Inflow to AGN, colloquium, Osservatorio Astrofisico di Arcetri, Florence, Italy, January 2011.
- Dennerl, K.: Comets, charge exchange, and a novel look at the X-ray universe, invited talk, Munich Joint Astronomy Colloquium, ESO, Garching, Germany, September 2011.
- Dennerl, K.: Impact of the low energy threshold on the spatial resolution and spectral properties of X-ray CCDs, contributed talk, International Astronomical Consortium for High Energy Calibration (IACHEC), Villa Grazioli (Grottaferrata), Italy, April 2011.
- Dennerl, K.: Kometen und Planeten in neuem Licht: unser Sonnensystem im Röntgenteleskop, public talk, Teleskoptreffen der Astronomischen Gesellschaft Graubünden, Faler, Switzerland, September 2011.
- Dennerl, K.: The potential of eROSITA for Charge Exchange Astrophysics, contributed talk, First eROSITA In-

- ternational Conference, Garmisch-Partenkirchen, Germany, October 2011.
- Dennerl, K.: X-rays from Planetary Exospheres - What we can Learn, invited talk, AAS 218: 12 Years of Science with Chandra, Boston, USA, May 2011.
- Dennerl, K.: eROSITA Working Group: Solar System, contributed talk, 4th eROSITA Consortium Meeting, Tübingen, Germany, February 2011.
- Diehl, R.: Cosmic Radioactivity, Astronomy with Gamma-Rays, and the Galactic Environment of our Sun, colloquium, MPS Science Colloquium, Katlenburg-Lindau, Germany, July 2011.
- Diehl, R.: Kosmische Radioaktivität und Astronomie mit Gammastrahlung, colloquium, Physik-Kolloquium der TU Berlin, Berlin, Germany, November 2011.
- Diehl, R.: Massive-Star Aspects of Chemical Evolution, invited talk, ESF EuroGenesis Workshop on Cosmic Dust, Wien, Austria, November 2011.
- Diehl, R.: Massive-Star Impacts on Surrounding ISM, invited talk, ESF EuroGenesis Workshop on Chemical Evolution, Basel, Switzerland, November 2011.
- Diehl, R.: Measuring Gamma-Ray Lines from Cosmic Sources, invited talk, VI. European Summer School on Experimental Nuclear Astrophysics, Santa Tecla, Italy, September 2011.
- Diehl, R.: Nucleosynthesis and Gamma-Ray Line Spectroscopy with INTEGRAL, invited talk, Science Workshop "The Extreme and Variable High Energy Sky", Chia Laguna, Italy, September 2011.
- Diehl, R.: Nucleosynthesis in Massive Stars and Supernovae, invited talk, EMMI Workshop on Space Opportunities in Nuclear Astrophysics, Darmstadt, Germany, December 2011.
- Diehl, R.: Origin and Evolution of Chemical Elements: RA-G Summary Report, invited talk, Science Week of the Universe Cluster of Excellence, Garching, Germany, December 2011.
- Diehl, R.: Radioactive Isotopes in our Nearby Galactic Environment, invited talk, Lorentz Center Workshop "Isotopes in Astrochemistry", Leiden, Netherlands, December 2011.
- Diehl, R.: Radioactivities and Massive-Star Feedback, contributed talk, VIIth Int. Workshop "Astronomy with Radioactivities", Phillip Island, Australia, March 2011.
- Diehl, R.: Radioactivities as a Tool: Massive Stars and Supernovae, invited talk, Science Day of Research Area G, Universe Cluster of Excellence, Garching, Germany, May 2011.
- Dodds-Eden, K.: The Galactic Center, invited talk, Sledging Down the Black Hole's Potential Well, Sesto Pusteria, Italy, July 2011.
- Dodds-Eden, K.: Time dependent models for the near-infrared and X-ray flares from Sgr A*, invited talk, The Emerging, Multi-wavelength Picture of the Galactic Center environment, Heidelberg, Germany, October 2011.
- Dodds-Eden, K.: What is behind the near-infrared and X-ray flares from Sgr A*?, colloquium, ESO Vitacura Office, Santiago, Chile, March 2011.
- Dodds-Eden, K.: What is behind the near-infrared and X-ray flares from Sgr A*?, colloquium, Observatoire Astronomique de Strasbourg, Strasbourg, France, January 2011.
- Eisenhauer, F.: GRAVITY, invited talk, Ten Years of VLTI Conference: from first fringes to core science, Garching, Germany, October 2011.
- Eisenhauer, F.: GRAVITY: Probing Physics Close to the Event Horizon of the Galactic Center Black Hole, colloquium, Observatory of Strasbourg, Strasbourg, France, January 2011.
- Eisenhauer, F.: GRAVITY: Probing Strong Gravity with the VLT Interferometer, invited talk, European Southern Observatory, Garching, Germany, April 2011.
- Eisenhauer, F.: GRAVITY's fatal attraction, colloquium, Max-Planck-Institute for Astronomy, Heidelberg, Germany, July 2011.
- Eisenhauer, F.: The Galactic Center: A short review, a sneak peek at selected recent papers, and real-time observations of an in-falling gas cloud, invited talk, EII working group meeting on AGNs and the galactic center, Lisbon, Portugal, November 2011.
- Fassbender, R.: Distant X-ray clusters and their applications with XMM-Newton and eROSITA, contributed talk, First eROSITA International Conference, Garmisch, Germany, October 2011.
- Fassbender, R.: Distant X-ray luminous Galaxy Clusters from the XDGP Survey, contributed talk, A New Generation of Galaxy Clusters Surveys, Sesto, Italy, July 2011.
- Fassbender, R.: Exploring the Properties of Galaxy Clusters in the First Half of the Universe, colloquium, Center for Astrophysics (CfA), Cambridge, USA, June 2011.
- Fassbender, R.: Galaxy Clusters in the First Half of Cosmic Time, colloquium, ESO Santiago, Santiago, Chile, January 2011.
- Fassbender, R.: Hunting for the most distant X-ray luminous galaxy clusters with XMM-Newton, colloquium, ESOC ESA Darmstadt, Darmstadt, Germany, November 2011.
- Fassbender, R.: The Most Distant Massive Galaxy Clusters, colloquium, Galaxy Clusters: the Crossroads of Astrophysics and Cosmology, Santa Barbara, USA, March 2011.
- Fassbender, R.: XMM-Newton's view of the highest redshift X-ray luminous galaxy clusters, contributed talk, The X-ray Universe 2011, Berlin, Germany, June.
- Fritz, T.: The extinction curve towards the Galactic Center, colloquium, Department of Astronomy and Astrophysics, Pontificia Universidad Católica de Chile, Santiago, Chile, July 2011.
- Fritz, T.: The extinction towards the galactic center and new determination of the distance to the Galactic Center, contributed talk, The Central Kiloparsec in Galactic Nuclei, Bad Honnef, Germany, September 2011.
- Förster Schreiber, N.M.: How well do we know stellar

- masses?, invited talk, Star Formation in Galaxies: The Herschel Era, Ringberg Castle, Germany, June 2011.
- Förster Schreiber, N.M.: SINFONI in COSMOS, invited talk, COSMOS Meeting 2011, Zürich, Switzerland, June 2011.
- Förster Schreiber, N.M.: The Growth of Galaxies at $z \sim 2$, colloquium, Munich Joint Astronomy Colloquium, Garching, Germany, April 2011.
- Förster Schreiber, N.M.: The Growth of Galaxies at $z \sim 2$, invited talk, Workshop Watching Galaxies Grow Up, Ringberg Castle, Germany, December 2011.
- Förster Schreiber, N.M.: The growth of galaxies at $z \sim 2$: insights from resolved kinematics, morphologies, and star formation, contributed talk, Conference on Galaxy Formation, Durham, United Kingdom, July 2011.
- Förster Schreiber, N.M.: The growth of massive galaxies at $z \sim 2$ from in-situ spatially-resolved observations, invited talk, Workshop on Galaxy Formation 2011, Ringberg Castle, Germany, April 2011.
- Genzel, R.: AGN and nuclear star cluster, invited talk, PhD school for particle physics (Herbstschule für Hochenergiephysik Maria Laach), Bautzen, Germany, September 2011.
- Genzel, R.: Basic Black Hole physics, invited talk, PhD school for particle physics (Herbstschule für Hochenergiephysik Maria Laach), Bautzen, Germany, September 2011.
- Genzel, R.: Galactic Center, invited talk, PhD school for particle physics (Herbstschule für Hochenergiephysik Maria Laach), Bautzen, Germany, September 2011.
- Genzel, R.: Galactic star formation at the peak of the galaxy formation epoch, invited talk, Santa Cruz Workshop, Santa Cruz, USA, August 2011.
- Genzel, R.: Galaxy evolution roadmap: What are the top ten questions, invited talk, Ringberg Castle Conference 'Star Formation in Galaxies: The Herschel Era', Kreuth, Germany, June 2011.
- Genzel, R.: Massive Black Holes and Galaxies, colloquium, Innsbruck Physics Lecture, Week of Physics, Innsbruck, Austria, October 2011.
- Genzel, R.: Massive Black Holes and Galaxies, invited talk, Annual Meeting of the Royal Swedish Academy of Sciences, Stockholm, Sweden, January 2011.
- Genzel, R.: Massive Black Holes and galaxies, invited talk, Michael West Public Lecture in Astronomy, Queen's University, Belfast, Northern Ireland, July 2011.
- Genzel, R.: Massive Schwarze Löcher - Monster in Galaxienzentren, public talk, Planetarium Mannheim, Mannheim, Germany, September 2011.
- Genzel, R.: Molecular gas and star formation in massive $z \sim 1-2$ galaxies, invited talk, Quarter Century of DLAs: Celebrating the Career of Arthur Wolfe, Ringberg Castle, Kreuth, Germany, July 2011.
- Genzel, R.: News from the Galactic Center, invited talk, Users Meeting (Anwendertreffen), Bruker Optik GmbH, Ettlingen, Germany, November 2011.
- Genzel, R.: Star formation and feedback at the peak of the galaxy formation activity: perspectives from physical processes, invited talk, LBT Science Conference: Star Formation Across Space and Time - Frontier Science with the LBT and Other Large Telescopes, Tucson, USA, April 2011.
- Genzel, R.: Star formation and feedback in galaxies at the peak of the galaxy formation epoch, invited talk, Ringberg Castle Conference: A Quarter Century of DLAs: Celebrating the Career of Arthur Wolfe, Seon, Germany, June 2011.
- Genzel, R.: Star formation and outflows in high-redshift galaxies, invited talk, Ringberg Castle Workshop on Galaxy Formation, Kreuth, Germany, April 2011.
- Genzel, R.: The Galactic Center and GRAVITY, invited talk, MRO (Madgalena Ridge Observatory) Workshop: Resolving the Future of Astronomy with Long-Baseline Interferometry, Socorro, USA, March 2011.
- Genzel, R.: The Massive Black Hole and Galaxies, invited talk, Karl Schwarzschild Medal of the Astronomische Gesellschaft (German Astronomical Society), Heidelberg, Germany, September 2011.
- Genzel, R.: The Massive Black Hole and Nuclear Star Cluster of the Milky Way, colloquium, Lund Observatory, Lund, Sweden, May 2011.
- Genzel, R.: The middle ages of galaxy evolution ($z=2-3$), invited talk, University of Durham, Durham, England, July 2011.
- Gerhard, O.E.: The Outer Halos of Nearby Elliptical Galaxies, invited talk, Galaxy Formation 2011, Schloss Ringberg, Kreuth, Germany, April 2011.
- Gerhard, O.E.: Bulge Morphology and Dark Matter Properties, invited talk, Assembling the Puzzle of the Milky Way, Grand Bornand, France, April 2011.
- Gerhard, O.E.: Outer Halo Dynamics, invited talk, Fornax, Virgo, Coma et al.: Stellar Systems in Nearby High Density Environments", ESO, Garching, Germany, June 2011.
- Gerhard, O.E.: Dark and Luminous Matter in the Outer Halos of Elliptical Galaxies, invited talk, Evolution of Galaxies, their Central Black Holes, and their Large-Scale Environment, Bad Honnef, Germany, July 2011.
- Gerhard, O.E.: Gas Flow as a Diagnostic of the Gravitational Field, invited talk, The Interstellar Medium in 3D, Leiden, The Netherlands, July 2011.
- Gerhard, O.E.: What is the Milky Way Bulge - and what is Missing in Our Knowledge, invited talk, Aspen Summer Workshop: The Galactic Bulge and Bar', Aspen, USA, August 2011.
- Gerhard, O.E.: The Stellar and Dark Matter Halos of Elliptical Galaxies, colloquium, Physics and Astronomy Department, University of Leicester, Leicester, UK, October 2011.
- Gillessen, S.: Experimental methods in the infrared: The key to the massive black hole in the Galactic Center, invited talk, Universidad Catolica, Santiago, Chile, 6.4.2011.
- Gillessen, S.: Flaring in Sgr A*, contributed talk, APEX

- Basecampe, San Pedro de Atacama, Chile, April 2011.
- Gillessen, S.: Flaring in Sgr A*, invited talk, OSF ALMA, San Pedro de Atacama, Chile, April 2011.
- Gillessen, S.: Flaring in Sgr A*, invited talk, Seoul National University, Seoul, Korea, October 2011.
- Gillessen, S.: Good astronomy talks - Considerations from a professional astronomer, invited talk, CAP-Meeting, Beijing, China, October 2011.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, EAA-Forum - Universität der Bundeswehr München, Munich, Germany, October 2011.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, IF-Forum, Interface AG, Unterhaching, Germany, March 2011.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Lions-Club, Wolfratshausen, Germany, November 2011.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Planetarium Stuttgart, Stuttgart, Germany, January 2011.
- Gillessen, S.: The Galactic Center - A unique laboratory, colloquium, Observatoire Astronomique de l'Université de Genève, Geneva, Switzerland, May 2011.
- Gillessen, S.: The Galactic Center - A unique laboratory, invited talk, NAOC - National Astronomical Observatory China, Beijing, China, October 2011.
- Gillessen, S.: The Galactic Center - A unique laboratory, invited talk, AstroGR-Meeting, Palma de Mallorca, Spain, September 2011.
- Gillessen, S.: The power of monitoring stellar orbits, invited talk, Kavli-Institute KIAA, Beijing, China, October 2011.
- Gillessen, S.: The power of precision - Stellar orbits around Sgr A*, invited talk, COST-Meeting, Bologna, Italy, April 2011.
- Graciá-Carpio, J.: Far-infrared Emission Lines in Galaxies: The SHINING Contribution to the Understanding of General Trends, contributed talk, 9th Sino-German Workshop on Galaxy Formation and Cosmology, Hangzhou, China, May 2011.
- Graciá-Carpio, J.: PDR (and HII) Spectroscopy of Star Forming Galaxies with Herschel, invited talk, Star Formation in Galaxies: The Herschel Era, Ringberg, Germany, June 2011.
- Graciá-Carpio, J.: SHINING: studying physical processes in the interstellar media of galaxies, invited talk, Through the Infrared Looking Glass: A Dusty View of Galaxy and AGN Evolution, Pasadena, USA, October 2011.
- Graciá-Carpio, J.: SHINING: studying physical processes in the interstellar media of galaxies, invited talk, JENAM 2011, Saint Petersburg, Russia, July 2011.
- Granato, S.: The spectral redistribution function of eROSITA PNCCDs, contributed talk, 2011 IEEE Nuclear Science Symposium and Medical Imaging Conference, Valencia, Spain, October 2011.
- Greiner, J.: Late-time variability as seen with GROND, contributed talk, The Prompt Activity of Gamma-Ray Bursts, Raleigh, USA, March 2011.
- Greiner, J.: GROND view of dark bursts and the related bias in host galaxy properties, invited talk, GRBs as probes, Como, Italy, May 2011.
- Greiner, J.: Capabilities of GROND, contributed talk, LO-FAR Transient Key Program Team Meeting, Amsterdam, The Netherlands, June 2011.
- Greiner, J.: Coordinated Swift and GROND observations, invited talk, Time-Domain Astrophysics with Swift, Clemson, USA, October 2011.
- Guglielmetti, F.: Bayesian mixture models for Poisson astronomical images, invited talk, Statistical Challenges in Modern Astronomy V, Penn State University, State College PA, USA, Juni 2011.
- Haberl, F.: BeXRBs in external galaxies compared to the Milky Way population, invited talk, BeXRB 2011, Valencia, Spain, July 2011.
- Haberl, F.: The XMM-Newton survey of the Small Magellanic Cloud, contributed talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Haberl, F.: The remarkable High Mass X-ray Binary Population of the SMC, colloquium, Astronomisches Institut Universität Jena, Jena, Germany, January 2011.
- Haberl, F.: X-ray Source Populations in Local Group Galaxies, invited talk, Frascati Workshop 2011: Multifrequency Behaviour of High Energy Cosmic Sources, Vulcano, Italy, May 2011.
- Haberl, F.: X-ray Source Populations of Local Group Galaxies - Prospects for eROSITA, contributed talk, First International eROSITA conference, Mapping the Structure of the Energetic Universe, Garmisch-Partenkirchen, Germany, October 2011.
- Haberl, F.: X-ray source population studies of Local Group Galaxies, colloquium, Observatoire Astronomique de Strasbourg, Strasbourg, France, February 2011.
- Haerendel, G.: Hard X-rays from Solar Auroras?, invited talk, Physics 290B Seminar, University of California, Berkeley, April 2011.
- Haerendel, G.: Hard X-rays from Solar Auroras?, colloquium, Space Science Laboratory, University of California, Berkeley, April 2011.
- Haerendel, G.: Fascinating Plasma Structures: comet tails, auroral arcs, and solar prominences, colloquium, Physics Colloquium, Dartmouth College, Hanover, NH, USA, September 2011.
- Haerendel, G.: Auroral Generators – An Overview, colloquium, Dartmouth College, Hanover, NH, USA, October 2011.
- Haerendel, G.: Experiments with Plasma Clouds, colloquium, Dartmouth College, Hanover, NH, USA, October 2011.
- Haerendel, G.: Solar Auroras, colloquium, Goddard Space Flight Center, Greenbelt, MD, USA, October 2011.

- Haerendel, G.: Electromagnetic Power Flows in MI Coupling: origins, spatial scales, and conversion processes, invited talk, AGU Fall Meeting, San Francisco, December 2011.
- Henze, M.: Classical novae as supersoft X-ray sources in the Andromeda galaxy M31, contributed talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Henze, M.: Classical novae as supersoft X-ray sources in the Andromeda galaxy M31, invited talk, Binary paths to type Ia supernovae explosions, Padova, Italy, July 2011.
- Henze, M.: X-ray Monitoring of Classical Novae in the Central Region of M 31, invited talk, The Golden Age of Cataclysmic Variables and Related Objects, Palermo, Italy, September 2011.
- Herczeg, G.: The DAO of Tau: Disks, Accretion, and Outflows in an FUV Survey of T Tauri Stars, contributed talk, American Astronomical Society Meeting, Seattle, WA, USA, January 2011.
- Herczeg, G.: Observational Diagnostics of Magnetospheric Accretion, colloquium, Lowell Observatory, Flagstaff, AZ, USA, March 2011.
- Herczeg, G.: Observational Diagnostics of Magnetospheric Accretion, colloquium, Kavli Institute for Astronomy and Astrophysics, Beijing, China, April 2011.
- Herczeg, G.: The DAO of Tau: Disks, Accretion, and Outflows in an FUV Survey of T Tauri Stars, invited talk at Star Formation through Spectroimaging at High Angular Resolution Workshop, Taipei, Taiwan, June 2011.
- Herczeg, G.: Observational Diagnostics of Magnetospheric Accretion, colloquium, Academia Sinica Institute for Astronomy and Astrophysics, Taipei, Taiwan, June 2011.
- Herczeg, G.: Highly Excited Molecular Emission from the Outflow of the Class 0 Protostar IRAS 4B, colloquium, University of Exeter, Exeter, UK, November 2011.
- Ilev, A.V.: Melting of 2D Plasma Crystals: Wake-mediated Mode Coupling Instability, invited talk, Strongly Coupled Coulomb Systems 2011, Budapest, Hungary, July 2011.
- Kanbach, G.: Astronomy on shortest timescales: Observations and results from the optical photo-polarimeter OPTIMA, colloquium, KTH, Dept. of Physics, Stockholm, Sweden, March 2011.
- Kanbach, G.: Galactic Gamma-Ray Sources - Early Searches and the Current Status of Identification, colloquium, MPI f. Radioastronomie, Bonn, Germany, November 2011.
- Kanbach, G.: Gamma-Ray Astronomy, invited talk, 2011 Autumn School: Principles of Multiwavelength - High-Time Resolution Astrophysics (HTRA), Sant'sa Margherita di Pula, Sardinia, Italy, October 2011.
- Kanbach, G.: History and Status of MeV gamma ray astrophysics, invited talk, EMMI-Workshop on Opportunities for Nuclear Astrophysics in Space, GSI, Darmstadt, Darmstadt, Germany, December 2011.
- Kanbach, G.: MEGA, a concept for a MeV space telescope, invited talk, EMMI-Workshop on Opportunities for Nuclear Astrophysics in Space, GSI, Darmstadt, Darmstadt, Germany, December 2011.
- Kanbach, G.: Neue Astronomie - mit Satelliten vom 'sichtbaren' zum 'unsichtbaren' Universum, public talk, Rotary Club Friedrichshafen-Tettngang, Tettngang, Germany, December 2011.
- Kanbach, G.: Polarized Light: on Earth, on Balloons, and from Space, colloquium, KTH, Dept. of Physics, Stockholm, Sweden, April 2011.
- Karska, A.: Cooling budget in Class 0/I low-mass YSOs with PACS, contributed talk, "Water in star forming region with Herschel" key program team meeting, Leiden, The Netherlands, December 2011.
- Karska, A.: Polish participation in ESO, contributed talk, XXXV Polish Astronomical Society Meeting, Gdansk, Poland, September 2011.
- Karska, A.: PACS observations of Class 0/I low-mass Young Stellar Objects, contributed talk, "Water in star-forming regions with Herschel" (WISH) key program team meeting, Toledo, Spain, June 2011.
- Khochfar, S.: Back to the roots: Modeling galaxies as simple as possible, colloquium, University of Oxford, Oxford, UK, November 2011.
- Khochfar, S.: Build up of stellar mass in galaxies: Lessons from high redshifts, invited talk, Ringberg Workshop on Galaxy Formation 2011, Garching, Germany, April 2011.
- Khochfar, S.: Galaxy formation revisited: Can we run simulations without simulations?, colloquium, Stanford, Palo Alto, USA, September 2011.
- Khochfar, S.: Galaxy formation through cosmic times, colloquium, Oskar-Klein Lecture, Stockholm, Sweden, March 2011.
- Khochfar, S.: Growth spurting galaxies at high z, invited talk, Cosmological Streaming, Inflows and Outflows, Jerusalem, Israel, December 2011.
- Khochfar, S.: Super-Massive Black Holes through Cosmic Time, colloquium, University of Oxford, Oxford, UK, March 2011.
- Khochfar, S.: The FiBY simulation and growth of galaxies during their infancy, invited talk, The First Galaxies, Ringberg, Germany, June 2011.
- Khochfar, S.: The early assembly of galaxies, contributed talk, Young and Bright: Understanding High Redshift Structures, Potsdam, Germany, September 2011.
- Khrapak, S.A.: Approximate methods to locate phase boundaries in complex plasmas and related systems, contributed talk, 6th International Conference on the Physics of Dusty Plasmas, Garmisch-Partenkirchen, Germany, May 2011.
- Khrapak, S.A.: Melting of Large 3D Complex Plasmas Structures under Microgravity Conditions, contributed talk, 38th EPS Conference on Plasma Physics, Strasbourg, France, July 2011.
- Khrapak, S.A.: Freezing and melting of complex plasma under microgravity: Towards detailed study of the phase diagram, contributed talk, German-Russian Symposium "10 Years of Complex Plasmas on ISS", Ringberg, Ger-

many, October 2011.

Khrapak, S.A.: Ionization instability of ion acoustic waves, contributed talk, 38th IOP Conference on Plasma Physics, North Berwick, UK, April 2011.

Khrapak, S.A.: Phase transitions in 3D complex plasmas driven by neutral gas pressure manipulation in PK-3 Plus experiment onboard ISS, contributed talk, 4th International Symposium on Physical Sciences in Space, Bad-Godesberg, Germany, July 2011.

Khrapak, S.A.: Predicting fluid-solid phase transition in complex plasmas and related strongly coupled systems, colloquium, Institute for Theoretical Physics II - Soft Matter, Düsseldorf, Germany, August 2011.

Klecker, B.: Iron charge distributions during the onset phase of large SEP events, contributed talk, 32nd Intern. Cosmic Ray Conf., Beijing, China, August 2011.

Klecker, B.: Das Reich der Sonne - unsere kosmische Heimat, public talk, Seminar "Heimatplanet Erde - eine Reise durch das Sonnensystem" der Hans-Seidel Stiftung, München, Germany, November 2011.

Kurk, J.: CL0322-2742, a galaxy group at $z=1.61$, H-alpha imaging, contributed talk, Leiden Observatory, Leiden, The Netherlands, December 2011.

Kurk, J.: CL0322-2742, a galaxy group at $z=1.61$, H-alpha imaging, contributed talk, University Observatory Vienna, Vienna, Austria, November 2011.

Landriau, M.: Scheduling HETDEX, contributed talk, HETDEX Science Meeting, State College, PA, USA, May 2011.

Lim, T.: TNOs are Cool: A Survey of the Transneptunian Region - Herschel-SPIRE Photometry of TNOs, contributed talk, European Geosciences Union General Assembly 2011, Vienna, Austria, April 2011.

Lutz, D.: A Herschel view on star formation in high redshift AGN hosts, contributed talk, The Starburst-AGN connection under the multiwavelength limelight, Villafranca, Spain, September 2011.

Lutz, D.: Evolution of Starbursts and AGN as seen in the Herschel era, invited talk, From Dust to Galaxies, Paris, France, June 2011.

Lutz, D.: PACS Evolutionary Probe PEP: Survey overview, invited talk, Watching galaxies grow up, Ringberg, Germany, December 2011.

Lutz, D.: $z\sim 2$ star formation as seen by Herschel-PACS, invited talk, Star Formation in Galaxies: The Herschel Era, Ringberg, Germany, June 2011.

Magnelli, B.: A Herschel view on the far-infrared properties of high-redshift galaxies, contributed talk, FIR2011: Star formation and feedback in galaxies as revealed by far-infrared and submillimeter wavelengths, London, England, September 2011.

Meidinger, N.: Status of the CCD camera for the eROSITA space telescope, contributed talk, UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVII, San Diego, USA, August 2011.

Meidinger, N.: eROSITA CCD Detectors, contributed talk, First eROSITA International Conference: Mapping the

Structure of the Energetic Universe, Garmisch-Partenkirchen, Germany, October 2011.

Merloni, A.: AGN feedback: Radiative vs. Kinetic Energy output, invited talk, JENAM2011 EAS Symposium: "Combined Radio/X-rays Approaches to Relativistic Astrophysics", St. Petersburg, Russia, July 2011.

Merloni, A.: Properties of Black Hole Accretion from AGN surveys, invited talk, From the Dolomites to the event horizon: Sledging Down the Black Hole's Potential Well, Sesto Pusteria, Italy, July 2011.

Merloni, A.: eROSITA: Clusters and AGN Surveys (and much more), invited talk, IXO Science Meeting: Present status and future prospects in X-ray Astronomy, Rome, Italy, March 2011.

Merloni, A.: eROSITA: Clusters and AGN Surveys (and much more), invited talk, Very Wide Field Surveys in Light of Astro2010, Baltimore, USA, June 2011.

Merloni, A.: eROSITA: Clusters and AGN Surveys, colloquium, Brera Observatory Colloquium, Milan, Italy, September 2011.

Mommert, M.: TNOs are Cool: A Survey of the Transneptunian Region - Physical Characterization of 14 Plutinos using PACS observations, contributed talk, European Geosciences Union General Assembly 2011, Vienna, Austria, April 2011.

Monetti, R.: Characterization of Plasma Induced Morphological Changes on SEM Images of Geobacillus Stearothermophilus Spores, invited talk, International Workshop on Plasma Medicine, Schloß Ringberg, Germany, October 2011.

Monetti, R.: Structure based classification of micro-CT images of human trabecular bone using local Minkowski Functionals, contributed talk, SPIE Medical Imaging 2011, Orlando, USA, February 2011.

Morfill, G.: Plasma Medizin - Funktion und Ergebnisse, invited talk, Workshop der Firma Draeger, Lübeck, Germany, January 2011.

Morfill, G.: Plasma Medicine and Hygiene, invited talk, 20th Conference "Medicine Meets Virtual Reality/Next-Med", Los Angeles, USA, February 2011.

Morfill, G.: Plasma Health Care, invited talk, Plasma Technologie (PT) 14, Stuttgart, Germany, March 2011.

Morfill, G.: 10 Jahre Plasmaforschung auf der ISS, invited talk, 10-Year ISS Symposium (ESA-DLR), Bonn, Germany, March 2011.

Morfill, G.: Plasmas in Medicine and Hygiene, invited talk, Electrochemical Society, Montreal, Canada, May 2011.

Morfill, G.: Plasma research on the international space station, colloquium, Bauman University, Moscow, Russia, June 2011.

Morfill, G.: Plasma Medizin, invited talk, Max Planck Forum, München, Germany, July 2011.

Morfill, G.: Plasma Medizin: aus dem Weltall zur Haut, colloquium, Schwabinger Krankenhaus, München, Germany, July 2011.

Morfill, G.: The Maxwell Prize Lecture, invited talk, 53rd

- Annual Meeting of the American Physical Society (Division of Plasma Physics), Salt Lake City, USA, November 2011.
- Morfill, G.: Plasma in Hygiene und Medizin - neue Wege, alte Ziele, invited talk, Fachtagung Plasmatechnologie PT15, Erfurt, Germany, December 2011.
- Müller, T.G.: Faszination Sonnensystem: Aus der Welt der kleinen und grossen Planeten, public talk, Festvortrag zur Einweihung des Traunsteiner Planetenwegs, Chiemgau-Gymnasium, Traunstein, Germany, October 2011.
- Müller, T.G.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, Tag der offenen Tür MPE, Garching, Germany, October 2011.
- Müller, T.G.: Makemake - A truly exotic TNO, contributed talk, EPSC-DPS Joint Meeting 2011, Nantes, France, October 2011.
- Müller, T.G.: NEA 162173 (1999 JU3): Constraining size, albedo, shape, thermal properties and spin-axis via thermophysical model techniques, contributed talk, EPSC-DPS Joint Meeting 2011, Nantes, France, October 2011.
- Müller, T.G.: TNOs are Cool: A Survey of the Transneptunian Region, colloquium, Universitäts-Sternwarte München, Munich, Germany, October 2011.
- Müller, T.G.: Thermophysical Modelling of Small Bodies, invited talk, ISSI Thermal emission meeting, Bern, Switzerland, October 2011.
- Nandra, K.: Adventures in the X-ray Universe, invited talk, MPG CPT-Section Meeting, Berlin, Germany, February 2011.
- Nandra, K.: The GRAVITAS mission, invited talk, Fast X-ray timing and spectroscopy at extreme count rates, Champéry, Switzerland, February 2011.
- Nandra, K.: The International X-ray Observatory, invited talk, ESA Cosmic Vision L-class mission presentations, Paris, France, February 2011.
- Nandra, K.: ATHENA, invited talk, 1st eROSITA International Conference – mapping the Structure of the Energetic Universe, Garmisch-Partenkirchen, Germany, October 2011.
- Nandra, K.: eROSITA aboard SRG, invited talk, HEAD Meeting, Newport, Rhode Island, USA, September, 2011.
- Nandra, K.: ATHENA: The Advanced Telescope for High Energy Astrophysics, invited talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Nandra, K.: ATHENA – Science overview, invited talk, 1st ATHENA Workshop, Garching, Germany, June 2011.
- Nandra, K.: X-ray Data in the CANDELS fields, invited talk, Candels Meeting, Edinburgh, UK, May 2011.
- Nandra, K.: IXO: Science Overview, invited talk, IXO Science Meeting – Present Status and Future Prospects in X-Ray Astronomy, Rome, Italy, March 2011.
- Neistein, E.: Hydro simulations and SAMs: two sides of the same coin, invited talk, Cosmological Streaming, Inflows and Outflows, Jerusalem, Israel, December 2011.
- Neistein, E.: Modeling the abundance and clustering of galaxies: limitations, complications, and freedom, colloquium, Harvard ITC, Boston, USA, June 2011.
- Neistein, E.: Modeling the abundance and clustering of galaxies: limitations, complications, and freedom, colloquium, NY University, New York, USA, June 2011.
- Neistein, E.: Modeling the abundance and clustering of galaxies: limitations, complications, and freedom, colloquium, Yale University, New Haven, USA, June 2011.
- Neistein, E.: What can we learn from the abundance and clustering of galaxies?, colloquium, Tel-Aviv University, Tel Aviv, Israel, November 2011.
- Neistein, E.: What can we learn from the abundance and clustering of galaxies?, colloquium, The Hebrew University, Jerusalem, Israel, December 2011.
- Neistein, E.: What can we learn from the abundance and clustering of galaxies?, colloquium, The Technion, Haifa, Israel, November 2011.
- Nosenko, V.: Microstructure of a sheared liquid complex (dusty) plasma, contributed talk, 10 Years of Complex Plasmas on ISS, Ringberg, Germany, October 2011.
- Nosenko, V.: New method of particle manipulation by rotating electric fields in complex (dusty) plasmas, contributed talk, 18th International Colloquium on Plasma Processes, Nantes, France, July 2011.
- Orban de Xivry, G.: Past & Present Secular Evolution in the Host Galaxies of NLS1s, contributed talk, Narrow Line Seyfert 1 Galaxies and their Place in the Universe, Milan, Italy, April 2011.
- Paardekooper, J.-P.: The escape of ionising radiation from galaxies during the epoch of reionisation, colloquium, Scuola Normale Superiore, Pisa, Italy, November 2011.
- Paardekooper, J.-P.: The escape of ionising radiation from galaxies during the epoch of reionisation, contributed talk, First Galaxies, Ringberg, Germany, June 2011.
- Pietsch, W.: Nova M31N 2007-12b: supersoft X-rays reveal an intermediate polar?, contributed talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Poglitsch, A.: Extragalactic Spectroscopy with Herschel/PACS, invited talk, JENAM-2011, EAS Symposium S7 "Far-Infrared Spectroscopy comes of age: the Herschel view", St. Petersburg, Russia, July 2011.
- Poglitsch, A.: Herschel - Europas neues Weltraumteleskop. Das Universum in einem anderen Licht, public talk, Öffentlicher Abendvortrag Anton-Bruckner-Gymnasium, Straubing, Germany, March 2011.
- Porro, M.: Development of the DSSC: a Large Format X-Ray Imager with MHz Readout Capability for the European XFEL, contributed talk, IEEE Nuclear Science symposium, Valencia, Spain, October 2011.
- Porro, M.: Development of the DSSC: a Large Format X-Ray Imager with MHz Readout Capability for the European XFEL, contributed talk, SPIE Optics + Optoelectronics 2011, Prague, Czech Republic, April 2011.
- Porro, M.: The DSSC project for XFEL: DEPFET and readout ASIC, contributed talk, 8th International Meeting on Front-End Electronics, Bergamo, Italy, May 2011.

- Porro, M.: VERITAS: a 128-Channel ASIC for the Readout of pnCCDs and DEPFET Arrays for X-Ray Imaging, Spectroscopy and X-Ray FEL Applications. Experimental Results and New Designs, contributed talk, IEEE Nuclear Science symposium, Valencia, Spain, October 2011.
- Predehl, P.: Röntgenastronomie, invited talk, Jahrestagung der Gesellschaft für angewandte Optik, Ilmenau, Germany, May 2011.
- Predehl, P.: eROSITA - auf der Jagd nach der Dunklen Energie, public talk, Teleskoptreffen der Astronomischen Gesellschaft Graubünden, Falera, Switzerland, September 2011.
- Predehl, P.: eROSITA - auf der Jagd nach der Dunklen Energie, public talk, Volksternwarte München, Munich, Germany, October 2011.
- Predehl, P.: eROSITA and ART-XC, THE SRG-MISSION, invited talk, JENAM-2011 European Week of Astronomy and Space Science, St. Petersburg, Russia, July 2011.
- Predehl, P.: eROSITA, a new all-sky X-ray Survey, invited talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Predehl, P.: eROSITA, contributed talk, First International eROSITA Science Conference, Garmisch-Partenkirchen, Germany, October 2011.
- Pustyl'nik, M.Y.: Approach to the understanding of the physical mechanism of the heartbeat instability, invited talk, 12th Workshop on Fine Particle Plasmas, Toki, Japan, November 2011.
- Pustyl'nik, M.Y.: High-Voltage Nanosecond Pulse Discharge in a Low-Pressure Preionized Medium, invited talk, Plasma Conference 2011, Kanazawa, Japan, November 2011.
- Pustyl'nik, M.Y.: High-voltage nanosecond pulse discharge in a low-pressure preionized medium, contributed talk, 38-th European Physical Society Conference on Plasma Physics, Strasbourg, France, June 2011.
- Raeth, C.: Probing non-Gaussianities in the cosmic microwave background by means of nonlinear data analysis techniques, contributed talk, 8th International Conference on Complex Systems, Boston, USA, June 2011.
- Raeth, C.: Probing scale-dependent non-Gaussianities in the WMAP data using surrogates, invited talk, JPL, Pasadena, USA, May 2011.
- Raeth, C.: Probing scale-dependent non-Gaussianities in the WMAP data using surrogates, invited talk, Primordial non-Gaussianity: Theory Confronts Observations, Ann Arbor, USA, May 2011.
- Raeth, C.: Review of the Workshop "Primordial non-Gaussianity: Theory Confronts Observations", invited talk, JPL, Pasadena, USA, May 2011.
- Raeth, C.: Revisiting the Copernican principle: Is the Universe really isotropic?, invited talk, 3rd Alpine Cosmology Workshop, St. Leonhardt, Austria, July 2011.
- Raeth, C.: Scale-dependent non-Gaussianities and asymmetries in the cosmic microwave background, contributed talk, PLANCK Joint Core Team Meeting, Bologna, Italy, November 2011.
- Rau, A.: The (Optical) Transient Sky, colloquium, Jacobs University Bremen, Jacobs University Bremen, Germany, March 2011.
- Rosario, D.: AGN Host Galaxies, contributed talk, PEP Team Meeting, Munich, Germany, September 2011.
- Rosario, D.: AGN Host Galaxies: Star formation and other fun stuff, contributed talk, CANDELS Workshop on Distant Galaxies, Sexten, Italy, June 2011.
- Rosario, D.: Evolution in The Growth Mode of SMBHs, contributed talk, Watching Galaxies Grow Up / MPIA Heidelberg, Schloss Ringberg, Germany, December 2011.
- Rosario, D.: PEP: Star Formation in AGN Host Galaxies, invited talk, Schloss Ringberg, Kreuth, Germany, June 2011.
- Saglia, R.: Die Suche nach extrasolaren Planeten, public talk, Ludwig-Maximilian Universität, Munich, Germany, June 2011.
- Saglia, R.: KIDS in Munich, contributed talk, KIDS Meeting, Leiden, The Netherlands, November 2011.
- Saglia, R.: Pan-STARRS1 - the Panoramic Survey Telescope and Rapid Response System, invited talk, DES Meeting, Portsmouth, UK, July 2011.
- Saglia, R.: Photometric redshifts for the ATLAS galaxies, invited talk, ATLAS Meeting, Durham, UK, December 2011.
- Saglia, R.: The Photometric Classification Server for Pan-Starrs: first science verification, invited talk, Boston Pan-starrs Science Meeting, Cambridge (Boston), USA, May 2011.
- Saglia, R.: The Photometric Classification Server for Pan-starrs1, contributed talk, EUCLID OU-PHZ Kick-off meeting, Geneva, Switzerland, November 2011.
- Saintonge, A.: A census of cold gas in nearby galaxies, invited talk, Star formation in galaxies: the Herschel era, Ringberg Castle, Germany, June 2011.
- Saintonge, A.: Gas and star formation scaling relations in the local Universe, invited talk, FIR2011: Star formation and feedback in galaxies, London, UK, September 2011.
- Saintonge, A.: Global star formation and gas scaling relations, invited talk, Gas in galaxies: from cosmic web to molecular clouds, Seeon, Germany, June 2011.
- Saintonge, A.: Molecular gas and star formation in massive galaxies, invited talk, Ringberg conference on galaxy formation, Ringberg Castle, Germany, April 2011.
- Saintonge, A.: Molecular gas in massive galaxies, invited talk, 9th Sino-German workshop on galaxy formation and evolution: Understanding gas accretion and star formation from high to low redshifts, Hangzhou, China, April 2011.
- Saintonge, A.: The non-universality of the molecular gas depletion timescale in massive galaxies, contributed talk, Galaxy formation, Durham, UK, July 2011.
- Sanchez, A.G.: Cosmological constraints from the full shape of $\xi(s)$ from BOSS, contributed talk, BOSS Collaboration Meeting, Cloudcroft, USA, March 2011.

- Sanchez, A.G.: Precision cosmology from LSS observations, colloquium, Center for Cosmology and Particle Physics, New York, USA, May 2011.
- Sanchez, A.G.: Precision cosmology from LSS observations, contributed talk, Galaxies in the Dark, Cafayate, Argentina, August 2011.
- Sanchez, A.G.: Precision cosmology from large-scale structure observations, invited talk, AAA Workshop on Computational Astronomy, Cordoba, Argentina, August 2011.
- Sanchez, A.: Halo abundance matching of BOSS galaxy clustering, contributed talk, SDSS-III collaboration meeting 2011, Nashville, USA, August 2011.
- Santos-Sanz, P.: TNOs are Cool: un estudio de la región transneptuniana con el telescopio espacial Herschel, contributed talk, II. Encuentro de exploracion del sistema solar, Bilbao, Spain, June 2011.
- Schartmann, M.: Simulations of Stellar Feedback in Nearby AGN, contributed talk, The Starburst-AGN Connection under the Multiwavelength Limelight, ESAC, Madrid, Madrid, Spain, September 2011.
- Scholer, M.: Acceleration in the solar system: summary, invited talk, Workshop on Particle Acceleration in Cosmic Plasmas, International Space Science Institute, Bern, Switzerland, May 2011.
- Scholer, M.: Four Lectures on MHD and collisionless shocks, colloquium, The 2011 Solar/Space International Summer School, Hefei, China, July 2011.
- Schwabe, M.: Crystallization in complex plasmas under microgravity conditions, contributed talk, Fourth International Symposium on Physical Sciences in Space, Bonn, Germany, July 2011.
- Schwabe, M.: Crystallization in complex plasmas under microgravity conditions, contributed talk, PK-3 Plus Symposium, Schloss Ringberg, Germany, October 2011.
- Schwabe, M.: Dynamical effects in fluid complex plasmas, invited talk, 38th EPS Conference on Plasma Physics, Strasbourg, France, June 2011.
- Schwabe, M.: Exploring the Limits of Cooperative Phenomena using Complex Plasmas, invited talk, 6th International Conference on the Physics of Dusty Plasmas, Garmisch-Partenkirchen, Germany, May 2011.
- Schwabe, M.: Kristallisation in Komplexen Plasmen unter Mikrogravitationsbedingungen, contributed talk, DPG Frühjahrstagung, Kiel, Germany, March 2011.
- Shimizu, S.: Sterilization / disinfection of bacteria and spores by means of low-temperature atmospheric pressure plasma treatment, contributed talk, 11th European Workshop on Astrobiology, Köln, Germany, July 2011.
- Shimizu, T.: Atmospheric Plasma for Wound Treatment: Lab to Clinical Study, invited talk, Eighth International Conference on Flow Dynamics, Sendai, Japan, November 2011.
- Shimizu, T.: Atmospheric Plasma in Medicine: Chronic Wound Disinfection, invited talk, The 12th International Workshop on Advanced Plasma Processing and Diagnostics, Fukuoka, Japan, January 2011.
- Shimizu, T.: Atmospheric plasma for medical and hygiene applications, invited talk, The 3rd International Conference on Microelectronics and Plasma Technology, Dalian, China, July 2011.
- Shimizu, T.: Nonthermal Atmospheric Plasma for Use in Medical and Hygiene Application, invited talk, Plasma Conference 2011, Kanazawa, Japan, November 2011.
- Strong, A.W.: Cosmic-ray propagation with GALPROP, invited talk, Workshop on Indirect Dark Matter Searches, Hamburg, Germany, June 2011.
- Strong, A.W.: The Fermi view of the high-energy ISM: relevance to Planck, contributed talk, The Millimeter and Submillimeter Sky in the Planck Mission Era, Paris, France, January 2011.
- Strong, A.W.: The cosmic-ray, gamma-ray radio connection in the galaxy, invited talk, The Emerging Multiwavelength Picture of the Galactic Centre Environment, Heidelberg, Germany, October 2011.
- Strong, A.W.: The high-energy ISM observed by (not only) Fermi., colloquium, Jodrell Bank Centre, University of Manchester, Manchester, England, April 2011.
- Strong, A.W.: The high-energy interstellar medium, invited talk, Cosmic-Ray Interactions: Bridging High and Low Energy Astrophysics, Leiden, Netherlands, March 2011.
- Sturm, E.: Das Weltraumteleskop Herschel - Infrarotastonomie vom Feinsten, public talk, MPE Open House, Garching, Germany, October 2011.
- Sturm, E.: Far-infrared ISM diagnostics with Herschel spectroscopy, invited talk, Multiwavelength Views of the ISM in High-Redshift Galaxies, Santiago de Chile, Chile, June 2011.
- Sturm, E.: Negative AGN feedback: Herschel observations of massive molecular outflows, colloquium, IPAC/CALTECH Colloquium, Pasadena, USA, November 2011.
- Sturm, E.: Negative AGN feedback: Herschel observations of massive molecular outflows, invited talk, Star Formation in Galaxies: The Herschel Era, Ringberg Castle, Germany, June 2011.
- Sturm, E.: Study of Infrared Bright Galaxies with FIR spectroscopy, invited talk, Challenges in IR Extragalactic Astrophysics II, Utrecht, Belgium, March 2011.
- Sturm, R.: The XMM-Newton survey of the SMC: The Be/X-ray binary population, contributed talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Sütterlin, K.R.: Frontiers in Complex Plasma Research, invited talk, 12th Workshop on Fine Particle Plasmas, Toki, Japan, November 2011.
- Sütterlin, K.R.: Komplexe Plasmen - Forschung in Schwerkraft, public talk, Lions Club, Neufahrn, Germany, April 2011.
- Sütterlin, K.R.: Shear Flow Instability at the Interface among two Complex Plasmas, contributed talk, 3rd International Conference on Microelectronics and Plasma Technology (ICMAP-2011), Dalian, China, July 2011.
- Suhada, R.: The XMM-BCS galaxy cluster survey, con-

- tributed talk, The X-ray Universe 2011, Berlin, Germany, June 2011.
- Tacconi, L.J.: Cold Gas in Star Forming Galaxies over Cosmic Time, invited talk, Galaxy Formation 2011, Durham University, Durham, UK, July 2011.
- Tacconi, L.J.: Gas Contents and Dynamics of High-z Star Forming Galaxies, invited talk, 9th Sino-German Workshop on Galaxy Formation and Cosmology, Hangzhou, China, April 2011.
- Tacconi, L.J.: Gas Contents and Dynamics of High-z Star Forming Galaxies, invited talk, A Quarter Century of DLAs: Celebrating the Career of Arthur Wolfe, Ringberg Castle, Germany, July 2011.
- Tacconi, L.J.: Molecular Gas and Star Formation in Normal SFGs from $z=1-3$, invited talk, MPA-Ringberg Workshop on Galaxy Evolution, Ringberg Castle, Germany, April 2011.
- Tacconi, L.J.: Molecular Gas in Star-Forming Galaxies at High-z, invited talk, Gas in Galaxies: From Cosmic Web to Molecular Clouds, Kloster Seeon, Germany, June 2011.
- Tacconi, L.J.: Star Formation and Gas: Observations at High-z, invited talk, Star Formation in Galaxies in the Herschel Era, Ringberg Castle, Germany, June 2011.
- Thoma, M.H.: Complex Plasmas in External Fields: Role of Non-Hamiltonian Interactions, contributed talk, DPG-Frühjahrstagung, Kiel, Germany, March 2011.
- Thoma, M.: Völlig losgelöst – Forschung in der Schwerelosigkeit, public talk, MPE Open House, Garching, Germany, October 2011.
- Thomas, H.M.: Complex Plasmas - The Plasma State of Soft Matter, invited talk, 25th Anniversary Symposium of Europhysics Letters EPL, Munich, Germany, May 2011.
- Thomas, H.M.: Complex Plasmas - The Plasma State of Soft Matter, invited talk, All Russian Low Temperature Plasma Physics Conference, Petrosavodsk, Russia, June 2011.
- Thomas, H.M.: Multifacets of Complex plasmas, invited talk, 3rd International Conference on Microelectronics and Plasma Technology (ICMAP-2011), Dalian, China, July 2011.
- Thomas, H.M.: Plasamadekontamination von Raumfahrtbauteilen, invited talk, 60. Deutscher Luft- und Raumfahrtkongress, Bremen, Germany, September 2011.
- Thomas, H.M.: Plasmakristallforschung auf der Internationalen Raumstation ISS, public talk, Cafe und Kosmos, Munich, Germany, December 2011.
- Thomas, J.: Luminous and dark matter distributions from dynamical models of elliptical galaxies, invited talk, MPA Ringberg Workshop on Galaxy Evolution, Schloss Ringberg, Tegernsee, April 2011.
- Thomas, J.: Dynamical models of baryonic and dark matter in elliptical galaxies, colloquium, University of Padua, Padova, Italy, October 2011.
- Thomas, J.: Schwarze Löcher im All – nah und fern, public talk, MPE Open House, Garching, Germany, October 2011.
- Trümper, J.E.: An accretion model for the quiescent X-ray emission of AXPs and SGRs, invited talk, JENAM 2011, St. Petersburg, Russia, July 2011.
- Trümper, J.E.: Looking back at ROSAT - The Sky in X-Rays, colloquium, University of Heraklion, Physics colloquium, Heraklion, Greece, December 2011.
- Trümper, J.E.: Observations of Neutron Stars and the Equation of State of Matter at High Densities, colloquium, Physik-Kolloquium, Astrophysical Institute and University Observatory University Jena, Jena, Germany, May 2011.
- Trümper, J.E.: Observations of Neutron Stars and the Equation of State of Matter at High Densities, invited talk, Ringberg Meeting, Kreuth, Germany, January 2011.
- Trümper, J.E.: Pulsars and isolated Neutron Stars - Observations and Theory, invited talk, 2011 Autumn School on Principles of Multi-wavelength High Time Resolution Astrophysics, Pula, Italy, October 2011.
- Trümper, J.E.: ROSAT, invited talk, First eROSITA International Conference: Mapping the Structure of the Energetic Universe, Garmisch, Germany, October 2011.
- Trümper, J.E.: The quiescent emission of soft gamma ray repeaters and anomalous X-ray pulsars - powered by accretion, invited talk, JENAM 2011, St. Petersburg, Russia, July 2011.
- Trümper, J.E.: What powers the Quiescent Emission of Soft Gamma Ray repeaters and Anomalous X-ray pulsars - Magnetic Field Decay or Accretion?, invited talk, AIP Potsdam, Potsdam, Germany, March 2011.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, Harvard-Smithsonian Center for Astrophysics, Cambridge, USA, February 2011.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, Steward Observatory, Tucson, USA, May 2011.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, University of Colorado, Boulder, USA, February 2011.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, University of Helsinki, Helsinki, Finland, March 2011.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, invited talk, Netherlands Astronomy Conference, Texel, The Netherlands, May 2011.
- van Dishoeck, E.F.: Chemistry in star- and planet-forming regions, invited talk, Astrochemistry: molecular networks connecting the universe, Amsterdam, The Netherlands, April 2011.
- van Dishoeck, E.F.: Direct and indirect observations of interstellar ices and ice chemistry, invited talk, Challenges in modelling the reaction chemistry of interstellar dust, Leiden, The Netherlands, September 2011.
- van Dishoeck, E.F.: Gas and dust in protoplanetary disks: from Spitzer to Herschel and JWST, invited talk, Strange new worlds, Flagstaff, USA, May 2011.
- van Dishoeck, E.F.: Hewish lecture: Building planets and

- the ingredients for life between the stars, colloquium, Cavendish laboratory, Cambridge University, Cambridge, UK, June 2011.
- van Dishoeck, E.F.: Modeling of gas lines in protoplanetary disks, invited talk, Dust, gas and ice in time, Pasadena, USA, July 2011.
- van Dishoeck, E.F.: Molecular processes between the stars, invited talk, Nordic Physics Days, Helsinki, Finland, March 2011.
- van Dishoeck, E.F.: Overview of mid-IR and far-IR facilities, invited talk, Cosmic ray interactions: bridging high and low energy astrophysics, Leiden, The Netherlands, March 2011.
- van Dishoeck, E.F.: Water in space: from pre-stellar cores to planet-forming disks, colloquium, Physikalisches Institut, University of Cologne, Cologne, Germany, October 2011.
- von Kienlin, A.: Bright High-Energy GRBs detected with the Gamma-ray Burst Monitor on Fermi, contributed talk, Third International Fermi Symposium, Rome, Italy, May 2011.
- Vilenius, E.: TNOs are Cool: Thermophysical modeling of a sample of 20 classical KBOs using Herschel/PACS, contributed talk, EPSC-DPS Joint Meeting, Nantes, France, October 2011.
- Wuyts, S.: A galaxy's life on and off the main sequence of star formation, colloquium, Purple Mountain Observatory, Nanjing, China, November 2011.
- Wuyts, S.: A galaxy's life on and off the main sequence of star formation, colloquium, Shanghai Astronomical Observatory, Shanghai, China, November 2011.
- Wuyts, S.: Galaxy structure and mode of star formation in the SFR-Mass plane from $z \sim 2.5$ to $z \sim 0.1$, contributed talk, Galaxy mergers in an evolving universe, Hualien, Taiwan, October 2011.
- Wuyts, S.: Galaxy structure and mode of star formation in the SFR-Mass plane from $z \sim 2.5$ to $z \sim 0.1$, colloquium, Max Planck Institute for Astrophysics, Munich, Germany, May 2011.
- Wuyts, S.: Relating structure and stellar populations globally and locally, contributed talk, Watching Galaxies Grow Up, Ringberg, Germany, December 2011.
- Wuyts, S.: Star formation over 11 Gyr of lookback time, contributed talk, SED 2011: The Spectral Energy Distribution of Galaxies, Preston, UK, September 2011.
- Wuyts, S.: The emergence of the Hubble sequence, colloquium, ESO, Santiago, Chile, May 2011.
- Wuyts, S.: The emergence of the Hubble sequence, colloquium, Ghent University, Ghent, Belgium, May 2011.
- Zhdanov, S.: Spontaneous disordering of plasma crystals, contributed talk, Conference Chaos Complexity and Transport, CCT11, Marseille, France, May 2011.
- Ziaepour, H.: An insight to the nature of dark energy, invited talk, Institute for Theoretical Physics, University of Heidelberg, Heidelberg, Germany, May 2011.
- Ziaepour, H.: Dark energy condensate and vacuum energy, contributed talk, 12th International Symposium on Frontiers of Fundamental Physics, Udine, Italy, November 2011.
- Ziaepour, H.: Measuring the equation of state of dark energy, colloquium, HETDEX science meeting, Pennsylvania, USA, May 2011.
- Ziaepour, H.: Simulation of high energy emission from gamma-ray bursts, invited talk, 12th International Symposium on Frontiers of Fundamental Physics, Udine, Italy, November 2011.
- Zimmermann, J.: Plasmamedizin – Neue Möglichkeiten in der Hygiene und Medizin, public talk, MPE Open House, Garching, Germany, October 2011.

PhD Theses

- Chaudhary, P.: Properties of the integrated spectrum of active galactic nuclei. Ludwig-Maximilians-Universität München 2011.
- Genel, S.: The Formation of Dark Matter Halos and High-Redshift Galaxies. Ludwig-Maximilians-Universität München 2011.
- Guglielmetti, F.G.: Background-Source separation in astronomical images with Bayesian Probability Theory. Ludwig-Maximilians-Universität München 2010.
- Henze, M.: Optical Novae as Supersoft X-ray Sources in the Andromeda Galaxy. Technische Universität München 2011.
- Kretschmer, K.A.: High-Resolution Spectroscopy of Astrophysical Gamma-Ray Lines. Technische Universität München 2011.

Diploma, Master, Bachelor

Gettkandt, J.: Die Suche nach extrasolaren Planeten mittels Astrometrie (Bachelor-Arbeit). Ludwig-Maximilians-Universität München 2011.

Kister, C.: Design of the metrology laser injection unit of the VLTI instrument GRAVITY (Diplom-Arbeit). Ludwig-Maximilians-Universität München 2011.

Moch, D.: Characterization of the differential aberrations of the VLTI beam train (Diplom-Arbeit). Ludwig-Maximilians-Universität München 2011.

Opitsch, M.: Black holes in galaxies. A look at scaling relations between supermassive black hole mass and host galaxy properties (Master-Arbeit). Ludwig-Maximilians-Universität München 2011.

Zeidler, P.: Messung und Instrumentierung zur Bestimmung der physikalischen Eigenschaften von extrasolaren Planeten (Bachelor-Arbeit). Ludwig-Maximilians-Universität München 2011.

Books / Articles in Books

Dennerl, K.: Charge Transfer Reactions. In: "High-Resolution X-Ray Spectroscopy - Past, Present and Future". (Eds.) J. Kaastra, F. Paerels. Space Science Reviews, 157, Springer, New York Dordrecht Heidelberg London, 57-91 (2011).

Diehl, R., D.H. Hartmann and N. Prantzos: Perspectives. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physics, Springer, Berlin, Vol. 812, 519-524 (2011).

Diehl, R., D.H. Hartmann, N. Prantzos (Eds.): "Astronomy with Radioactivities". Series: Lecture Notes in Physics, Vol. 812, Springer, Berlin (2011), 564 p.

Diehl, R., D.H. Hartmann and N. Prantzos: Distributed Radioactivities. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physics, Springer, Berlin, Vol. 812, 345-438 (2011).

Diehl, R.: Introduction to Astronomy with Radioactivity. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physics, Springer, Berlin, Vol. 812, 3-24 (2011).

Foschini, L., M. Colpi, L. Gallo, D. Grupe, S. Komossa, K. Leighly, S. Mathur (Eds.): Proc. of "Narrow-Line Seyfert 1 Galaxies and their place in the Universe". Proceedings of Science, Electronic Journal, SISSA, Italy (2011).

Kanbach, G. and L. Nittler: Instruments for Observations of Radioactivities. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physics, Springer, Berlin, Vol. 812, 490-518 (2011).

Nandra, K., D. Barret, F. Fabian, F. Fabian, R. Willingdale, M. Watson, P. Jonker, H. Kunieda, G. Miniutti, C. Motch, and P. Predehl: GRAVITAS: general relativistic astrophysics via timing and spectroscopy. In: "Experimental Astronomy - Astrophysical Instrumentation and Methods". P. Ballmoos (Ed.) Springer Science+Business Media B.V. 2011, 1-18 (2011).

Nosenko, V.Y., P.K. Shukla, M.H. Thoma and H.M. Thomas (Eds.): Dusty/Complex Plasmas: Basic and Interdisciplinary Research - Proceedings of the 6th International Conference on the Physics of Dusty Plasmas. AIP Conference Proceedings 1397, Melville, New York 2011, 464 p.

Sidorenko, I., R. Monetti, J. Bauer, J. Bauer and C. Raeth: Scaling Index Method (SIM): a Novel Technique for Assessment of Local Topological Properties of porous and Irregular Structures. In: "Computed Tomography - Special Applications", L. Saba (Ed.), InTech – Open Access Publisher, Rijeka, Croatia, 275-292 (2011).

Thielemann, F.-K. R. Hirschi, M. Liebendörfer and R. Diehl: Massive Stars and Their Supernovae. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physics, Springer, Berlin, Vol. 812, 153-232 (2011).

Trümper, J.: Endzustände der Materie im Kosmos. In: "Physik im 21. Jahrhundert". W. Martienssen, D. Röß (Eds.), Springer, Berlin, 291-323 (2011).

Popular Scientific Publications

Cirasuolo, M., J. Afonso, R. Bender, P. Bonifacio, C. Evans, L. Kaper, E. Oliva and L. Vanzì: MOONS: The Multi-Object Optical and Near-infrared Spectrograph. *The Messenger* 145, 11-13 (2011).

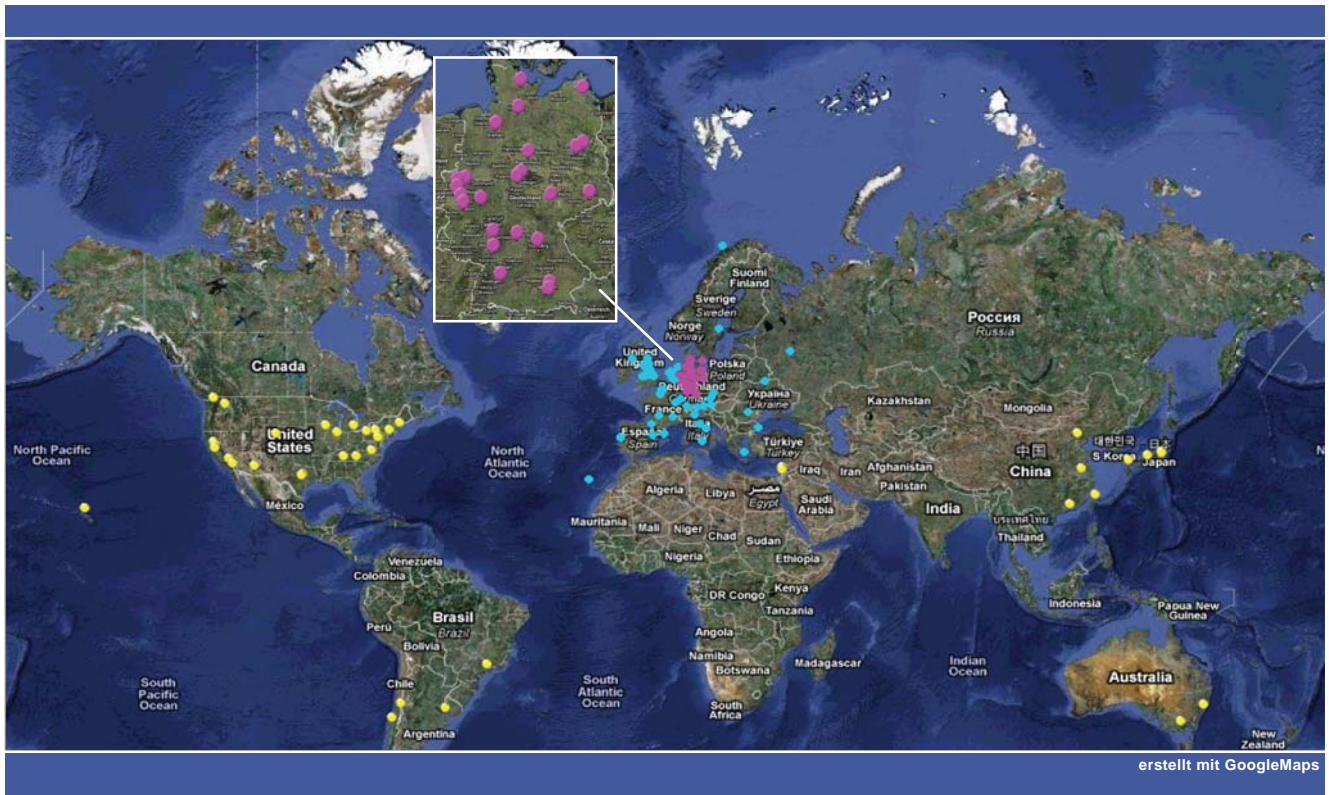
Eisenhauer, F., G. Perrin, W. Brandner, C. Straubmeier, K. Perraut, A. Amorim, M. Schöller, S. Gillessen, P. Kervella, M. Benisty, C. Araujo-Hauck, L. Jocou, J. Lima, G. Jakob, M. Haug, Y. Clénet, T. Henning, A. Eckart, J.-P. Berger, P. Garcia, R. Abuter, S. Kellner, T. Paumard, S. Hippler, S. Fischer, T. Moulin, J. Villate, G. Avila, A. Gräter, S. Lacour, A. Huber, M. Wiest, A. Nolot, P. Carvas, R. Dorn, O. Pfuhl, E. Gendron, S. Kendrew, S. Yazici, S. Anton, Y. Jung, M. Thiel, É. Choquet, R. Klein, P. Teixeira, P. Gitton, D. Moch, F. Vincent, N. Kudryavtseva, S. Ströbele, S. Sturm, P. Fédou, R. Lenzen, P. Jolley, C. Kister, V. Lapeyrère, V. Naranjo, C. Lucuix, R. Hofmann, F. Chapron, U. Neumann, L. Mehrgan, O. Hans, G. Rousset, J. Ramos, M. Suarez, R. Lederer, J.-M. Reess, R.-R. Rohloff, P. Hagenauer, H. Bartko, A. Sevin, K. Wagner, J.-L. Lizon, S. Rabien, C. Collin, G. Finger, R. Davies, D. Rouan, M. Wittkowski, K. Dodds-Eden, D. Ziegler, F. Cassaing, H. Bonnet, M. Casali, R. Genzel and P. Lena: GRAVITY: Observing the Universe in Motion. *The Messenger* 143, 16-24 (2011).

Förster Schreiber, N.M., R. Genzel, A. Renzini, L.J. Tacconi, S.J. Lilly, N. Bouche, A. Burkert, P. Buschkamp, C.M. Carollo, G. Cresci, R. Davies, F. Eisenhauer, S. Genel, S. Gillessen, E.K.S. Hicks, T. Jones, J. Kurk, D. Lutz, C. Mancini, T. Naab, S. Newman, Y. Peng, K.L. Shapiro, A.E. Shapley, A. Sternberg, D. Vergani, S. Wuyts, G. Zamorani, N. Arimoto, D. Ceverino, A. Cimatti, E. Daddi, A. Dekel, D.K. Erb, X. Kong, V. Mainieri, C. Maraston, H.J. McCracken, M. Mignoli, P. Oesch, M. Onodera, L. Pozzetti, C.C. Steidel and A. Verma: The SINS and zC-SINF surveys: The growth of massive galaxies at $z \sim 2$ through detailed kinematics and star formation with SINFONI. *The Messenger* 145, 39-43 (2011).

Pontoppidan, K.M., E. van Dishoeck, G.A. Blake, R. Smith, J. Brown, G.J. Herczeg, J. Bast, A. Mandell, A. Smette, W.-F. Thi, E.D. Young, M.R. Morris, W. Dent and H.U. Käufel: Planet-forming Regions at the Highest Spectral and Spatial Resolution with VLT-CRIRES. *The Messenger* 143, 32-36 (2011).

Collaborations / Transfer of Know-How

Scientific Collaborations by Country



Australia

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

Austria

Universität und TU Wien: Herschel-PACS.

Belgium

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

Brasil

Universidade de Sao Paulo: Galaxienentstehung.
 Observatorio Nacional: DES
 Centro Brasileiro de Pesquisas: DES
 Universidade Federal do Rio: DES

Chile

Universidad de Concepcion: Röntgen-Doppelsternsysteme.
 Universidad Catolica Santiago: Röntgen-Doppelsternsysteme.

China

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

INTEGRAL.

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

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

Croatia

Ministry of Science and Technology, Zagreb: CAST.

Germany

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

Christian-Albrechts-Universität, Kiel: komplexe Plasmen.

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

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

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

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

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 LUCIFER für LBT; Galaxienentstehung, ARGOS.

Laser Zentrum Hannover: Development of advanced Filters for MICADO.

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

LFM Labor für Mikrozerspannung, Bremen: Diamond turned optics for GRAVITY.

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

Maier-Leibnitz Laboratorium, Garching: eROSITA.

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

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

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

Max-Planck-Institut für Kernphysik: CFEL.

Max-Planck-Institut für Biomedizinische Forschung: CFEL.

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

Max-Planck-Institut für Biophysische Chemie: CFEL.

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

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

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

Thüringer Landessternwarte Tautenburg: GROND; Gamma-Ray Bursts.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Nukleare Astrophysik.

Trans MIT, Gießen: Pulse tube cooler for GRAVITY.

Universität Bochum: Komplexe Plasmen; LUCIFER.

Universität Bonn: Test von Pixeldetektoren für ATHENA; OmegaCAM; ASTRO-WISE; eROSITA; EUCLID.

Universität Düsseldorf: komplexe Plasmen.

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, Department of Dermatology, University Hospital Regensburg: Plasma Medicine.

Universitätssternwarte Göttingen: OmegaCAM.

Universität Siegen: Compton Kamera.

Universität Stuttgart: SOFIA.

Universität Würzburg: AGADE, GRIPS.

France

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

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

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

IAP Paris: Nukleare Astrophysik.

LAM: EUCLID; Gamma-Ray Bursts.

IPAG Grenoble: GRAVITY.

OAMP Marseille: Herschel-PACS.

Observatoire de Paris-Meudon: ASTRO-WISE; GRAVITY; MICADO.

Greece

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

Hungary

Konkoly Observatory: Herschel-PACS.

Ireland

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

University College Dublin: Fermi/GBM.

Israel

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

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

Italy

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen; Athena.

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

INAF Arcetri: ARGOS; LBT.
 INAF Trieste: Gamma-Ray Bursts; Fermi/LAT.
 INAF Padua: Herschel-PACS; OmegaCAM; LBT; MICA-DO.
 INAF Roma: LBT; Nukleare Astrophysik.
 INFR Frascati: SIDDHARTA.
 Istituto di Fisica dello Spazio Interplanetario (CNR), Frascati: Herschel-PACS.
 OAA/LENS Firenze: Herschel-PACS.
 Osservatorio di Capodimonte, Napoli: OmegaCAM; ASTRO-WISE.
 Politecnico di Milano: rauscharme Elektronik; Röntgendetektorenentwicklung.
 University Bologna: EUCLID.
 Universität Neapel: Komplexe Plasmen.

Japan

Tokio Institute of Technology (TITECH), Ookayama: ASCA/XMM-Newton Beobachtungen von AGN.
 JAXA: Pk-3 Plus; PK-4; Plasmalab.
 Kyoto Institute for Technology: Komplexe Plasmen, PK-3 Plus, Plasmalab.
 Tohoku University: Komplexe Plasmen.
 University of Osaka: Astro H; Athena CCDs.
 University of Tokyo: GeBiB detectors.
 Yokohama National University: komplexe Plasmen.

The Netherlands

ESTEC, Noordwijk: XMM-Newton-TS-Spiegelkalibration; CCD Entwicklung; Radiation Performance Instrument; INTEGRAL; EUCLID; PK-4.
 FOM Institute for Plasma Physics, Rijnhuizen: komplexe Plasmen.
 NOVA Leiden: MICADO.
 SRON, Utrecht: Chandra-LETG; TES für SPICA/Athena.
 Sterrewacht Leiden: ASTRO-WISE; OmegaCAM.
 TU Delft: Reflexions Messungen an schwarzen Farben.
 University Eindhoven: Komplexe Plasmen; Plasmalab.
 University of Groningen, Kapteyn Institute: Rekonstruktion der Dichteverteilung im Universum; OmegaCAM; ASTRO-WISE.

Norway

Universität Tromsø: Komplexe Plasmen.

Poland

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

University Zielona Gora: OPTIMA

Portugal

SIM Lissabon: GRAVITY.

Universität Lissabon: Komplexe Plasmen.

Russia

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

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

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

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

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

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

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

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

Sweden

University Lund/Observatory: OPTIMA.

University Stockholm: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

Switzerland

CERN, Geneva: CAST.

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

Universität Basel: Nukleare Astrophysik.

Spain

Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas: DES.

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

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

Instituto de Ciencias del Espacio: DES.

Institut de Fisica d'Altes Energies: DES.

LAEFF, Madrid: RoPACS.

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

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen

Taiwan

National Central University, Chungli; PanSTARRS.

Turkey

Bogazici University, Istanbul: CAST.

Ukraine

Main National Observatory, Kiev: RoPACS.

UK

Belfast, Queen's University: PanSTARRS.

BRUNEL University: Athena.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

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

Open University, Milton Keynes: Kataklysmische Variablen; Novae.

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

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

University of Durham: KMOS, PanSTARRS.

University of Cambridge: DES; RoPACS.

University of Edinburgh: DES; KMOS; PanSTARRS.

University of Hertfordshire: RoPACS.

University of Leeds: Komplexe Plasmen.

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

University of Liverpool: Komplexe Plasmen.

University of Nottingham: DES.

University of Portsmouth: DES.

University of Sussex: DES.

University of Southampton: Magellanic Clouds.

University of Wales, Cardiff: Filter für Herschel-PACS und SOFIA.

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.

Lawrence Berkeley National Laboratory, Berkeley: Herstellung der Ge:Ga Detektorelemente für Herschel-PACS und SOFIA; Charakterisierung von GaAs-Detektormaterial.

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

Überresten.

MIT, Cambridge: Athena WFI.

NOAO, Tucson: DES.

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

Naval Research Laboratory: komplexe Plasmen.

Ohio State University: DES; LBT.

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

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

Pennsylvania State University: HETDEX; Athena WFI; Swift.

Research Corporation: LBT.

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

Space Telescope Science Institute, Baltimore: Galaxienentstehung.

STC : EUCLID.

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

SLAC: CAMP; DES.

Texas A & M University: DES.

Texas State University: HETDEX.

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

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

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.

University Space Research Association, Moffett Field: SOFIA.

Multinational Collaborations - Projects

ARGOS: Arcetri Observatory, Italy; Laserleitstern für das LBT: 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.

ASTRO-WISE: LMU München, Universität Bonn, Germany; Sterrewacht Leiden, University of Groningen, The Netherlands; Osservatorio di Capodimonte, Napoli, Italy; Observatoire de Meudon, Paris, France.

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, Astrophysikalisches Institut Potsdam, Germany; IAP Paris, France; Osservatorio Astronomico Trieste; Istituto Nazionale di Fisica Nucleare Trieste, Italy; Associated Universities Washington, Johns Hopkins University Baltimore, Space Telescope Science Institute Baltimore, USA; Center for Astrophysics Hefei, China.

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

COSMOS: INAF-Osservatorio Astronomico di Bologna, INAF-Osservatorio Astronomico di Roma, INAF-Osservatorio Astrofisico di Arcetri, INAF/IASF-CNR, Sezione di Milano, IRA-INAf, Bologna, Dipartimento di Astronomia, Università Padova, Dipartimento di Fisica, Università degli Studi Roma Tre, Italy; Harvard-Smithsonian Centre for Astrophysics, Cambridge, Department of Physics, Carnegie Mellon University, Pittsburgh, Institute for Astronomy, University of Hawaii, California Institute of Technology, Pasadena, Department 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.

eROSITA: Universität Tübingen, Universität Bonn, Universität Erlangen, AIP Potsdam, Universität Hamburg, Remeis-Sternwarte Bamberg, MPA Garching, LMU München, Germany; IKI Moskau, Russia.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MICADO - Study for a Multi-Adaptive Optics Imaging Camera for Deep Observations: LMU, USM, MPIA, IFA Göttingen, Germany; INAF Padova, Italy; NOVA, Federation of Dutch University Astronomy Departments, The Netherlands; LESIA, Paris, France.

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

OmegaCAM - Wide Field Imager of the VST: ESO Garching, LMU München, Universität Bonn, Universitätssternwarte Göttingen, Germany; Sterrewacht Leiden, University of Groningen, The Netherlands; Osservatorio di Capodimonte, Napoli, OAP Padua, Italy.

OPTIMA: Astrophysikalisches Institut Potsdam, 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

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

Plasmamedizin: Max Planck Innovation GmbH, Dept. of Dermatology, Hospital Schwabing, München, Medizet Dept. Microbiology, Schwabing, München, Dept. of Dermatology, University Hospital Regensburg, Dept. of Neuropathology, TU München, Institute of Experimental Oncology, TU München, University of Veterinary Medicine, Hannover, Dept. Infectiology & Virology, University Heidelberg, Section Crystallography, LMU München, German Aerospace Center (DLR), Cologne, German Aerospace Center (DLR), Bonn, Dept. of Toxicology, TU München, Hospital for ENT, LMU München, 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.

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

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

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

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

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

XMM-Newton/SSC (Survey Science Center): Astrophy-

sikalisches Institut Potsdam, 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; Univer-

sity of Leicester, University Birmingham, UK; CNR Mailand-Palermo-Bologna-Frascati, Osservatorio Astronomico Mailand, Italy; Institut für Astronomie und Astrophysik Tübingen, Germany.

Industrial Collaborations

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

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

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

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

Array Electronics, Eggenstein: DAQ development OPTIMA.

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

Bernhard halle Nachfolge GmbH, Berlin: Optics for Gravity.

Berner & Mattner Systemtechnik GmbH, München: PK-4 documents, construction of plasma diagnostics system.

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

Buchberger GmbH, Tuchenbach: Manufacturing of parts for PANTER manipulators; FIFI-LS; parts for CAST.

EADS Astrium Munich: Euclid design study.

ESS, Landsberg: Servicing of the electrical installation; Manufacturing of electrical devices for the test facilities PANTER, CALIFA and PUMA.

ESL GmbH, Berlin: Manufacturing of circuit boards.

Euro Hect Pipes, Nivelles, Belgium: Cooling System for eROSITA.

Freyer GmbH, Tübingen: PANTER, parts for LUCIFER.

Guido Lex Werkzeugbau GmbH, Miesbach: Structural parts for FIFI-LS, parts for LUCIFER.

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

HPS München: Environmental testing eROSITA.

IABG: MLI for eROSITA.

IMEC, Leuven, Belgium: Manufacturing of cryogenic electronics in new CMOS technology for IR-detectors on Herschel-PACS; FIFI-LS; SAFARI.

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

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

Ingenieurbüro Weisz, München: Design and mechanical engineering for LUCIFER; Mechanical design for GRAVITY.

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

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

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

Kugler GmbH, Salem: FIFI-LS; GRAVITY.

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

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

Menlo Systems, Martinsried: Metrology Laser for GRAVITY.

Newport, Darmstadt: Cryogenic rotation stages for GRAVITY:

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

Physik Instrumente Karlsruhe: Cryogenic Piezo Actuators for GRAVITY.

RUAG Austria: Telescope-Cover-Mechanism for eROSITA.

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

Siegert Electronics GmbH, Cadolzburg: Read-out electronic boards for FIFI-LS; SAFARI.

Stöhr Amaturen, Königsbrunn: Cryostat for GRAVITY.

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

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

Aktivitäten 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

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

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

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

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

B) Licences

ADTEC, Japan, Plasma Torch.

Biocam GmbH, Regensburg: Dermatoscopy.

Baader Planetarium GmbH, Mammendorf: Reflexionsgitter Spectrograph für Lehrzwecke.

PNSensor, München, Detektortechnologie.

Baader Planetarium GmbH, Mammendorf: Baches Echelle Spectrograph.

C) Cooperations with Universities (by contract)

Anaesthesiology:

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

Scanning Probe Microscopy and Ramam Spectroscopy:

Department of Neuropathology, Technical University Munich.

Institut für Kristallographie und Angewandte Mineralogie, LMU München.

Radiology:

Institut für Röntgendiagnostik, TU München.

Rastersonden-Mikroskopie:

Bayerisches Landeskriminalamt, SIZ, München.

Plasmamedicine:

Department of Chemical Engineering, University of California, Berkeley.

Department of Neuropathology, TU Munich.

Department of Infectiology & Virology, University Heidelberg.

Department of Toxicology, TU Munich.

Hospital for ENT, LMU München.

Institute of Experimental Oncology, TU Munich.

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

Klinik und Poliklinik für Dermatologie, Universität Regensburg.

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

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

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

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

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

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

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

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

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

Detector Development:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung.

D) Patents - Activities in 2011

Patent 0207-4211: Dental Plaster

Patent 0207-4333: Verfahren/Vorrichtung zur Erhöhung der Hygiene in Behältnissen

Patent 0207-4334: Bodenreinigungsgerät mit einem Plasmaapplikator

Patent 0207-4345: Plasma-aktivierte Flüssigkeiten

Patent 0207-4361: Kapillarelelement für Plasmaquellen zur Führung reaktiven Plasmaspezies

Patent 0207-4398: Plasma Design für die Zerstörung von Gerüchen

Patent 0207-4400: Plasma Design für bakterizide Effekte

Patent 0207-4406: Rekonstr. von Energie und Geschwindigkeit von Staubteilchen in Plasmen mittels Teilcheneinfang in Aerogelen

Patent 0207-4421: Plasma Cloth

Patent 2070-4472: Plasmaquelle für O₃-reduziertes Plasma

MPE holds currently 40 patents in total.

