

A photograph of the Max-Planck-Institut für extraterrestrische Physik building, a modern structure with a curved facade and a glass roof, surrounded by lush greenery and trees. The building is the central focus, with a garden in the foreground and dense foliage on the right. The sky is clear and blue.

Max-Planck-Institut für extraterrestrische Physik

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PERSONNEL 2010

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Dr. V. Yaroschenko, Universiteit Gent (Belgium)

Scientific Honours, Appointments

Diehl, R.: Appointment as Professor (apl), TU M nchen, Germany, August 2010.

Genzel, R.: Cecelia Payne-Gaposchkin Lecture, Harvard Smithsonian Center for Astrophysics, Cambridge, USA, May 2010.

Genzel, R.: Jansky Lectureship, National Radio Astronomy Observatory, Charlottesville, USA, November 2010.

Genzel, R.: Honorary Doctorate Leiden University, Leiden, The Netherlands, February 2010.

Haerendel, G.: "Jean Dominique Cassini Medal" and "Nomination as Honorary Member of the EGU", European Geosciences Union, Vienna, Austria, May 2010.

Kr hler, T.: PhD Award of the Excellence Cluster Universe, Garching, Germany, October 2010.

Nandra, K.: Appointment as MPE Director (High-Energy Astrophysics), MPE, Germany, June 2010.

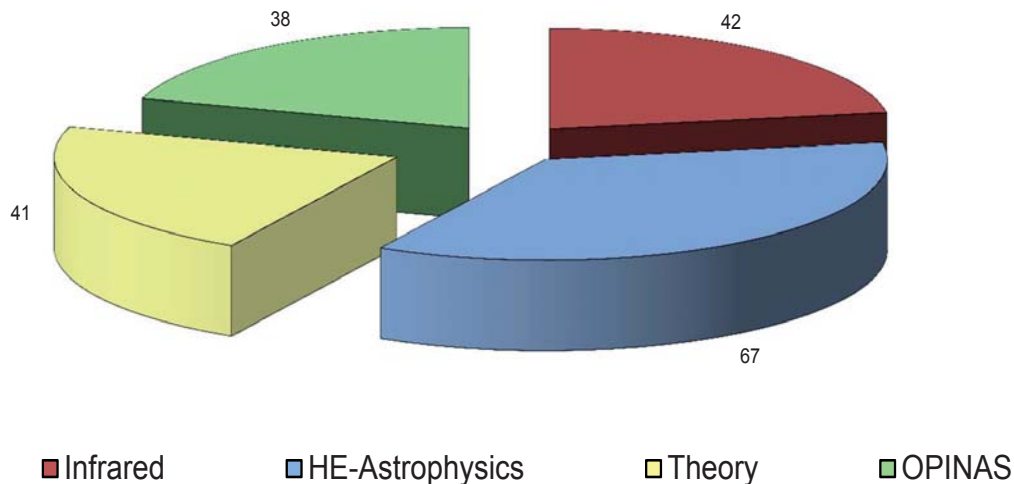
Savaglio, S.: "Calabria in the World"-Award, Rome, Italy, December 2010.

Tacconi, L.: Sackler Lecturer 2010, Leiden University, Leiden, The Netherlands, October 2010.

Tanaka, Y.: "Person of Cultural Merit"-Award, Tokyo, Japan, November 2010.

Science Groups

Staff Members by Scientific Group



Infrared / Submillimeter-Astronomy

Secretary: Harai-Ströbl, S.

Ageorges, Dr. N. (until 14.12.); Agudo Berbel, A.; Bartko, Dr. H. (until 30.9.); Berta, Dr. S.; Brown, Dr. J. (until 30.9.); Bruderer, Dr. S. (since 2.11.); Contursi, Dr. A.; Davies, Dr. R.; Doublier Pritchard, Dr. V.; Eisenhauer, Dr. F.; Feuchtgruber, Dipl.-Phys. H.; Förster Schreiber, Dr. N.; Geis, Dr. N.; Gillessen, Dr. S.; Gracia Carpio, Dr. J.; Gräter, A.; Hailey-Dunsheath, Dr. S.; Herczeg, Dr. G.; Hofmann, Dr. R.; Kanneganti, Dr. S.; 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. (since 23.9.); Saintonge, Dr. A.; Sturm, Dr. E.; Tacconi, Dr. L.; Vilenius, Dr. E.; Wetzstein, Dr. M.; Wuyts, Dr. S. (since 1.9.); Zanker-Smith, J.

Guests

Amorim, Prof. A. (29.7.-25.9.); Fischer, Prof. J. (until 10.10.); González-Alfonso, Dr. J. (5.-22.7.) Höhle, R.; Jaffe, Prof. D. (4.-31.7.); Jaffe J. (14.6.-31.7.); Jones T. (15.5.-22.8.); Kaurav S. (15.1.-14.3.); Minowa, Dr. Y. (12.7.-15.9.); Netzer, Prof. H. (1.7.-31.8.); Newman S. (18.5.-29.7., 2.-24.12.); Piqueras, Dr. J., (1.9.-20.12.); Raimundo S. (16.11.-2.12.); Sani, Dr. E. (8.3.-30.6.); Santini, P. (since 18.10.); Shapiro, K. (29.3.-17.4.); Sternberg, Prof. A. (30.6.-31.7.); Veilleux, Prof. S. (8.6.-27.8.)

PhD / Diploma / Master

Boose Y. (since 1.12., Eisenhauer); Buschkamp, P. (Hofmann); Dodds-Eden, K. (Genzel); Engel, H. (Davies); Ertl, T. (20.4.-31.8., 1.11.-31.12., Gemperlein/Rabien) Fabian, W. (until 15.2.; Bartko), Fritz, Dipl.

Phys. T. (Gillessen); Genel, S. (Genzel); Jaffe, J. (14.6.-31.7.); Karska, A. (van Dishoeck, Förster Schreiber); Kister, C. (since 20.12., Gillessen); Moch, D. (since 22.12., Gillessen); Orban di Xivry, G. (Rabien); Pfuhl, O. (Eisenhauer); Prade, L. (since 16.12., Eisenhauer); Shao, L. (Lutz); Soyulu, Ü.-R. (15.2.-15.8., Bartko)

High-Energy Astrophysics

Secretary: Boller, B.

Team Assistent: Frankenhuizen, W.

Andritschke, Dr. R.; Balestra, Dr. I., Becker, Dr. W.; Boller, Prof. Dr. T.; Bongiorno, Dr. A., Bottacini, Dr. E. (until 31.8.); Bräuninger, Dr. H.; Bribian-Sanchez, B.; Brightman, Dr. M. (since 1.11.); Brunner, Dr. H.; Brusa, Dr. M.; Burkert, Dr. W.; Burwitz, Dr. V.; Cappelluti, Dr. N. (until 31.8.); Coppa, Dr. G. (since 8.11.); Dennerl, Dr. K.; Diehl, Dr. R.; Elbs, Dr. J.; Eder, Dipl. Ing. J.; Finoguenov, Dr. A.; Foley, Dr. S.; Freyberg, Dr. M.; Friedrich, Dr. P.; Gaida, R.; Greiner, Dr. J.; Guglielmetti, F. (since 1.12.); Haberl, Dr. F.; Hartner, Dipl.-Math. G.; Huang, Dipl.-Phys. H.-H. (until 30.6.); Kanbach, Dr. G. (until 30.9.); Kienlin von, Dr. A.; Kimmel, Dr. N.; Kim, J.W.; Kocelch, L.; Komossa, Dr. S.; Krühler, Dr. T.; Lemson, Dr. G.; Lerchster, M. (since 1.9.); Martin, Dr. P.; Meidinger, Dr. N.; Merloni, Dr. A.; Meuris, A., (until 30.11); Mühlegger, Dr., M. (since 1.12.); Nardini, Dr. M.; Ordavo, I., (until 31.1.); Pfeffermann, Dipl.-Phys. E.; Pietsch, Dr. W.; Predehl, Dr. P.; Rau, Dr. A.; Rehm, D. (until 30.6.); Rovilos, Dr. M.; Savaglio, Dr. S.; Schaller, G.; Schopper, Dr. F.; Schady, Dr. P.; Strong, Dr. A.; Strüder, Prof. Dr. L.; Treis, Dr. J.; Voges, Dr. W.; Vongehr, M.; Voss, Dr. R. (until 31.8.); Winter, Dr. A.; Yoldas, A. (until 30.6.); Zhang, Dr. X.-L.; Zhang, Z. (since 8.3.)

Guests

Aküz, Prof. A. (6.9.-24.10.); Feruglio, S. (1.-3.2.), Forman, Dr. B. (17.-25.11.); Fukun, L. (18.-20.8.), Gil, Prof. J. (20.-23.9.); Hartmann, Prof. D. (15.-28.3. und 17.-30.7.); Hatzidimitriou, Prof. D. (5.-17.7.); Henry, Prof. P. (16.3.-18.6.); Iyudin, Prof. A. (3.6.-4.8.); James, Prof. B. (6.-11.8.); Keil, R. (20.1.-21.10.); Mathur, S. (1.-5.12.); Margutti, R. (22.-24.6.), Mazzalay, Dr. X. (bis 31.10.); McCracken, Dr. H. (2.-4.11.); Mendes, P. (until 30.06.); Mignani, Prof. R. (15.-30.9.); Nasiroğlu, I. (since 1.1.); Nicastro, F. (7.-12.2.), Ota, N. (until 31.3.); Pires, A. (6.-26.6.); Rangel, C. (21.11.-1.12.); Safi-Harb, S. (18.-20.7.); Schmidt, Prof. M. (14.5.-3.6.); Sehmer, T. (19.1.-30.9.); Seidel, M. (8.6.-31.7.); Urry, Prof. M. (1.-5.2.); Ursino, E. (6.-12.2.); Weber, F. (15.-20.12.); Zajczyk, A. (16.-18.12.); Zhang, Y.Y. (12.-17.1.)

PhD / Diploma / Master

Afonso, P. (until 30.6., Greiner); Bähr, A. (Strüder); Bernhardt, M.G. (Becker); Bissaldi, E. (until 30.6., v. Kienlin); Burlon, D. (Greiner); Buron, A. (since 2.8., Predehl); Capelli, R. (Predehl); Chaudhary, Dipl.-Phys. P. (Hasinger); Ebermayer, Dipl.-Phys. St. (Strüder); Elliot, Dipl.-Phys. J. (since 1.9., Greiner); Fedl, V. (Strüder); Filgas, R. (Greiner); Fürmetz, Dipl.-Phys. M. (Predehl); Gruber, D. (Greiner/ von Kienlin); Henze, Dipl.-Phys. M. (Pietsch); Huang, Dipl.-Phys. H.-H. (until 30.6., Becker); Jocham, C. (Becker); Kretschmer, Dipl.-Phys. K. (Diehl); Lauf, T. (Strüder); Mühlegger, Dipl.-Phys. M. (until 30.11., Hasinger); Ohlendorf, H. (until 31.1., Diehl); Olivares, F. (Greiner); Prinz, T. (Becker); Repp, J. (until 31.7., Strüder); Schächner, Dipl.-Phys. G. (Meidinger); Stiele, Dipl.-Phys. H. (until 31.3., Pietsch/Hasinger); Sturm, R. (Haberl).

Theory and Complex Plasmas

Secretary: Langer, A.

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Guests

Atmanspacher, Dr. H. (28.02.-06.03.); Khrapak, Dr. A. (1.-31.12.); Tsyтовich, Prof. V. (until 24.4., 15.-20.6., 26.-29.6.)

PhD / Diploma / Master

Du, Ch. (Thomas); Fink, Dipl.-Phys. M. (Morfill); Giodini, Dipl. Phys. S. (until 31.8., Böhringer); Heidemann, R. (Thomas); Huber, Dipl.-Phys. P. (Morfill); Jeon, J. (Thoma); Jiang, Ke (Morfill); Klämpfl, T. (since 1.5., Zimmermann); Köritzer, J. (since 1.5., Zimmermann); Lachner, V. (Zimmermann); List, J. (since 1.12., Morfill); Meyer, H. (Räch); Mihatsch, Dipl. Phys. S. (Bunk); Reichert, A. (since 1.12., Böhringer); Rossmann, Dipl. Phys. G. (Morfill); Santos, Dipl. Phys. J.; Suhada, Dipl. Phys. R. (Böhringer); Weissmann, A. (since 1.9., Böhringer); Wörner, L. (Thoma); Ziparo, F. (Böhringer).

Optical and Interpretative Astronomy

Secretary: Rieperding, M. (until 31.10.)

Ingram C. (since 1.11.)

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Guests

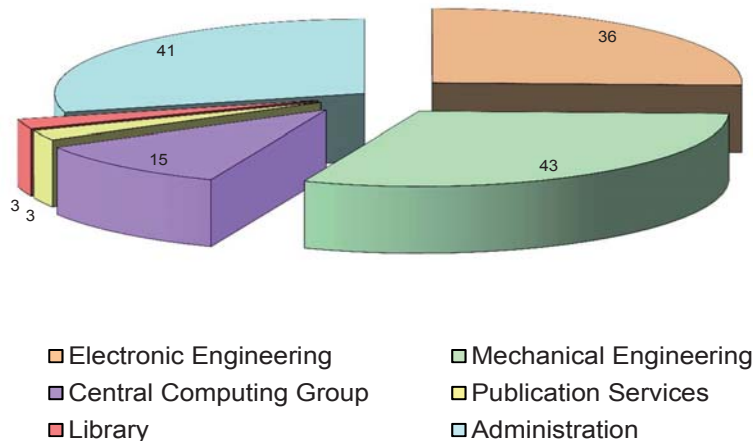
Freeman, Prof. K.C., (11.11-11.12.); Gebhardt, Dr. K. (30.6.-20.8.); Hill, Dr. G. (9.8.-30.9.); Komatsu, Dr. E. (14.7.-13.8.); Refregier, Dr. (1.2.-30.7.)

PhD / Diploma / Master

Bharska, A. (since 1.9., Khochfar); Brucalassi, A. (since 1.7.); Cappetta, M. (Saglia); Connelly, J. (Bender); Das, P. (Gerhard); Fabricius, M. (until 30.9., Bender); Hiltz, M. (Burkert); Klein, F. (since 1.10., Bender); Kotarba, H. (Bender); Markovic, K. (Weller); Misgeld, I. (since 1.10., Bender); Montesano, F. (Bender); Morganti, L. (Gerhard); Ntormousi, E. (Burkert); Opitsch, M. (since 1.11., Saglia); Oser, L.G. (Burkert); Pekruhl, S. (Bender); Prianto Rusli, S. (Saglia); Pu, S. (until 30.6., Saglia); Schlagenhauer, H. (since 1.10., Bender); Schoenrich, R. (Bender); Sundqvist, J. (Bender); Ventimiglia, G. (Gerhard); Wulstein, P. (since 1.11., Saglia); Zendejas Dominguez, J. (Saglia)

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Engineering, Workshops, Central Services Staff



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Mechanical Engineering

Thiel, Dipl.-Ing. M. (Head of Mechanical Engineering)
 Deysenroth, C.; Deysenroth, M.; Dittrich, Dipl.-Ing. (FH) K.; Gemperlein, Dipl.-Phys. H.; Haug, Dipl.-Ing. (FH) M.;

Huber, Dipl.-Ing. H.; Mayr-Ihbe, R.; Mican, Dipl.-Ing. B.; Paßlach, Dipl.-Ing. (FH) S.; Pietschner, Dipl.-Ing. (FH) D.; Plangger, M.; Rohe, C.; Schreib, R.; Stadler, G.; Strecker, R.; Tiedemann, Dipl.-Ing. L.

Mechanical Workshop

Czempiel, S. (Head of Mechanical Workshop)
 Bayer, R.; Blasi, T.; Bibracher, M.; Brandstetter, J.; Brara, A.; Budau, B.; Dietrich, G.; Eibl, J.; Feldmeier, P.; Gahl, J.; Goldbrunner, A.; Hartwig, J.; Honsberg, M.; Huber, S.; Huber, F.-X.; Kestler, H.-J.; Liebhardt, J.; Mayr, R.; Sandmair, R.; Schneider, A.; Schnell, P.; Schunn, W.; Soller, F.; Straube, P.; Urban, T.

Apprentices

Cziasto, D.; Greil, M.; Hiefinger, M. (until 1.9.); Huber, D.; Kratschmann, T. (until 1.9.); Mihé, F.; Senftleben, S., Wachendorf, M.

Student Assistants, Interns und Temporary Employees

Student Assistants

Hofmann, F.; Menz, B.; Müller, A.; Orasanu, E.T.; Ovari, S.

Work Experience (Schools)

Berger, M.; Bock, K.; Deysenroth, M.; Freiberg, D.; Gunzl, D.; Hauer, K.; Kristen, M.; Linzmeier, D.; Reinicke, C.; Riedhammer, K.; Rochner, G.; Schlitz, R.; Schwab, G.; Widmann, G.

Work Experience (University)

Handwerker, A.; Möhring, S.; Mothes, F.; Pütz, D.

Temporary Employees

Bähr, A.; Bianchi, D.; Breunig, E.; Christof, J.; Günther, B.; Hain, K.; Hauser, G.; Heindl, E.; Hofmann, F.; Ingram, E.; Junk, V.; Knust, F.; Lloyd, J.; Magic, Z.; Matiaska, M.; Menz, B.; Müller, A.; Müller, Anna; Müller, M.; Müller, S.; Müller, St.; Okon, M.; Orasanu, E.; Penka, D.; Reichert, A.; Repp, J.; Salamon, R.; Schlitz, R.; Schopka, J.; Schrey, T.; Sedlmeir, G.; Soyul, Ö.

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Central Computing Committee

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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 Betreuung); Ott, Dr. T. (system support Infrared); Paul, J. (Network, System support High-Energy, Datenschutzbeauftragter); 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)

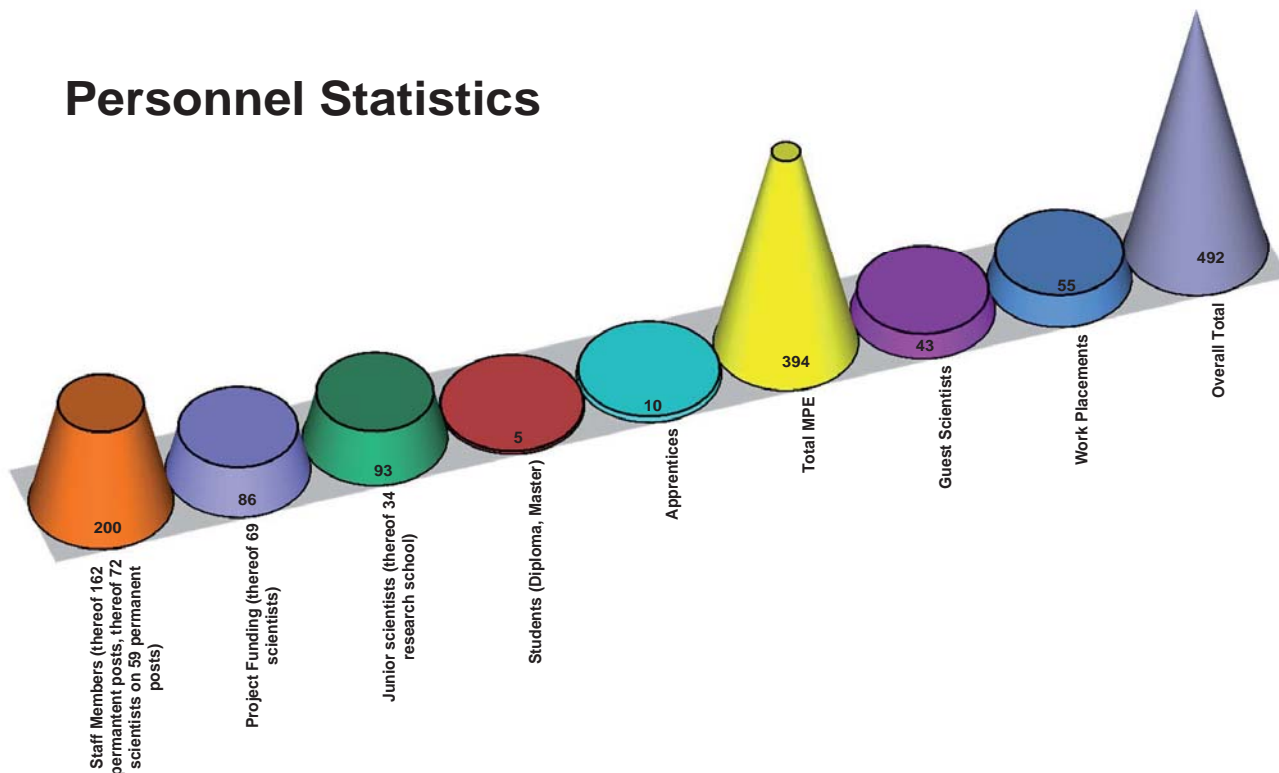
Secretary: Kliem, V.

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.; Mühlberg, A. (until 31.3.); Nagy, A.; Neun, A. (BR); Peischl, M.; Preisler, C.; Reither, A.; Rochner, R.; Rossa, E.; Sandtner, P.; Sarsilmaz, E.; Scheiner, B.; Schwaiger, S.; Seeger, G. (until 31.3.); Steinle, R.; Strecker, R.; Thiess, L.; Vogt, J.P.

IMPRS

Ingram, C. (until 30.10.), Collmar, E. (since 1.11.)

Personnel Statistics

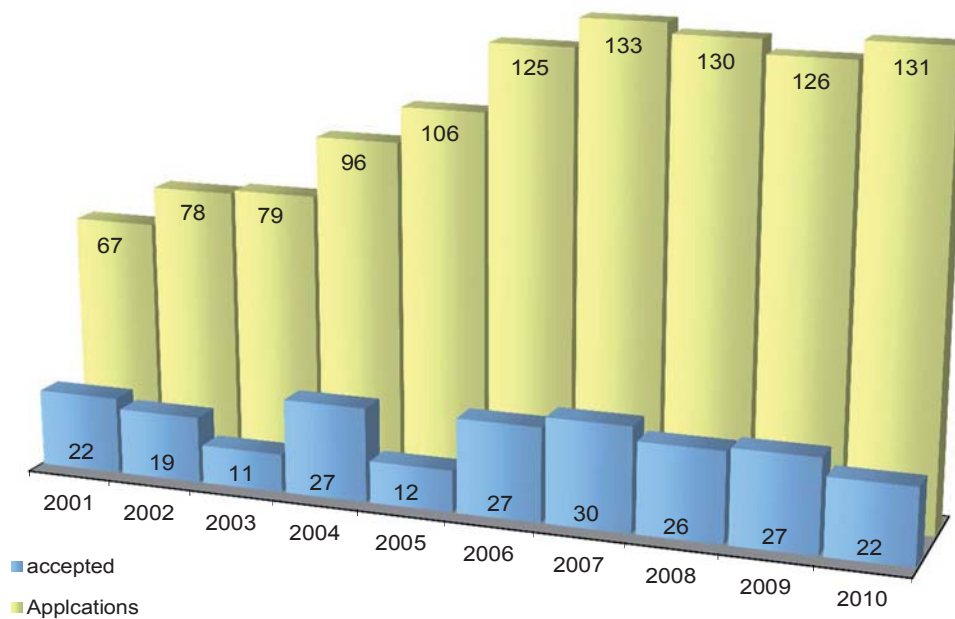


International Max-Planck Research School (IMPRS) on Astrophysics

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 2010 a total of 87 students took part in the program, thereof 34 at the MPE. 141 students applied for the year 2011, 23 of those were accepted (up to April 2011).

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 1212 students applied.

PR Work

MPE is engaged in public relations work and education. The activities in 2010 were: 24 public talks, 6 popular science articles, 28 press releases/news, 22 guided tours through the institute (mainly scientifically orientated school classes), supervising 14 internships of high school students (1-2 weeks) and 4 university stu-

dents (4-8 weeks) and 50 girls were introduced to MPE in the federal initiative "Girl's Day". In addition, we produced a glossy, new brochure about MPE. More information about the PR work at MPE can be found at: <http://www.mpe.mpg.de/popus.html>.

Project-Groups

(Project managers underlined)

Infrared / Submillimeter-Astronomy

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

GRAVITY

Bartko, Eisenhauer, Gillessen, Gräter, Haug, Hofmann, Kellner, Kister, Moch, Pfuhl, Sturm, Thiel.

Herschel-PACS

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

KMOS

Agudo Berbel, Davies, Wiezorrek.

LBT Argos

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

LBT Lucifer

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

MICADO

Barl, Davies, Eisenhauer, Förster Schreiber, Thiel.

Sofia-FIFI-LS

Fumi, Geis, Hönle, Oberauer, Poglitsch, Raab, Schweitzer.

SPICA-SAFARI

Barl, Geis, Poglitsch, Raab.

Galaktisches Zentrum

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

Galaxienkerne

Contursi, Davies, Engel, Genzel, Gracia Carpio, Hayley-Dunsheath, Hicks, Lutz, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung

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

Sternentstehung

Brown, Bruderer, Herczeg, Karska, van Dishoeck.

High-Energy Astrophysics

CAST

Bräuninger, Strüder.

Chandra

Burwitz, Predehl.

IXO

Boller, Burkert, Freyberg, Friedrich, Herrmann, Mießner, Nandra, Predehl, Schael, Schaller, Schopper, Stefanescu, Strüder, Treis, Trümper, Vongehr, Weidenspointner.

eROSITA

Andritschke, Bornemann, Bräuninger, Briel, Brunner, Budau, Burkert, Cappelluti, Dennerl, Eder, Eibl, Freyberg, Friedrich, Fürmetz, Gaida, Hälker, Hartmann, Hartner, Hengmith, Hermann, F. Huber, H. Huber, Kink, Meidinger, Mican, Mühlegger, Müller, Nandra, Pfeffermann, Predehl, Rohe, Schächner, Schreib, Schrey, Strüder, Tiedemann, Vongehr.

GRAVITAS

Becker, Boller, Brusa, Eder, Finoguenov, Freyberg, Friedrich, Haberl, Lechner, Merloni, Nandra, Stefanescu, Winter.

ROSAT

Haberl, Voges.

Swift

Greiner, Rau.

XMM-Newton

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

Fermi

Collmar, Diehl, Greiner, Kanbach, v. Kienlin, Nardini, Steinle, Strong.

GROND

Filgas, Greiner, Krühler, Olivares, Schady, Schrey, Yoldas.

INTEGRAL

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

OPTIMA

Kanbach, Rau, Schrey, Steinle.

Aktive Galaxien

Boller, Komossa, Nandra.

Clusters of Galaxies

Finoguenov.

Cosmic Rays

Martin, Strong.

Gamma-Ray Bursts

Foley, Greiner, Krühler, Rau, A., Savaglio, Schady.

Kompakte Objekte

Becker, Burwitz, Haberl, Kanbach, Nandra.

Nahe Galaxien

Freyberg, Haberl, Pietsch.

Nukleare Astrophysik

Diehl, v. Kienlin, Kretschmer.

Virtual Observatories

Kim, Lemson, Voges.

Theory and Complex Plasmas

Adaptive Electrode

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

Diamant-Labor

Morfill, S. Shimizu, Thomas.

GEC-Labor

Couédel, Konopka, Morfill, Nosenko, Pustynnik, Rubin-Zuzic, Sütterlin, Thomas, Wörner.

Hochfeld-Labor

Bandyopadhyay, Deysenroth, Konopka, Morfill, Steffes, Tarantik, Thomas.

PK-3 Plus

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

PK-4

Albrecht, Deysenroth, Fink, Hagl, Höfner, Kretschmer, Mitic, Morfill, Rau, Tarantik, Thoma.

Plasmalab

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

Praktikumsversuch "Plasmakristall"

Brandt, Heidemann, Kretschmer, Morfill, Schwabe,

Thoma.

Streifenelektrode

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

ERC Grant

Brandt, Ivlev, Morfill.

Hochenergie Astrophysik

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

Nichtlineare Dynamik, Komplexe Systeme

Aschenbrenner, Bauer, Bunk, Meyer, Miharsch, Monetti, Müller, Räth, Rosmanit, Scheingraber, Sidorenko.

Plasma Medizin

Bunk, D. Li, Klämpfl, Köritzner, Ki, Monetti, Morfill, Schmid, Shimizu, Steffes, Zimmermann.

Optical and Interpretative Astronomy

ASTRO-WISE

Bender, Saglia, Wilman.

EUCLID

Bender, Grupp, Schweitzer, Saglia.

KMOS

Bender, Saglia.

MICADO

Bender, Noyola, Saglia.

PanSTARRS

Bender, Hopp, Phleps, Saglia, Wilman.

Galaxy Dynamics

Bender, Gerhard, Saglia.

Large Scale Structure

Bender, Drory, Fabricius, Phleps, Saglia, Sanchez, Wilman.

Stellare Populationen und Galaxienentstehung

Bender, Hopp, Saglia.

Teaching

IMPRS on Astrophysics, Garching

Diehl

High-Energy Astrophysics (SS 10)

Genzel

Advanced Course 1: Experimental Astrophysics: Optical to Radio Wavelength Range (WS 10/11)

Ludwig-Maximilians-Universität München

Becker

Neutronensterne, Weiße Zwerge und Schwarze Löcher (WS 09/10)

Gravitationswellen und deren Nachweis (SS 10)

Endstadien der Sternentwicklung (WS 09/10)

Bender

Astronomisches Hauptseminar zur Astrophysik (WS 09/10)

Astrophysikalisches Praktikum „A“ und Übungen (WS 09/10)

Astrophysikalisches Praktikum „B“ und Übungen (WS 09/10)

Astronomisches Kolloquium (WS 09/10, SS 10, WS 10/11)

Extragalactic Journal Club (E) (WS 09/10)

Extragalactic Group Seminar (WS 09/10, WS 10/11)

Einführung in die fortgeschrittene Astrophysik II (Introduction to Advanced Astrophysics II) (SS 10)

Ergänzung zur Vorlesung P4.1 "Einführung in die fortgeschrittene Astrophysik II" (SS 10)

Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert, "Tools in modern astrophysics" (SS 10)

Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert, "Tools in modern astrophysics" (SS 10)

"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 10)

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

Ergänzung zur Vorlesung P1.1 "Grundlagen der fortgeschrittenen Astrophysik" (WS 10/11)

Astrophysikalisches Hauptseminar theoretisch und numerisch orientiert, "Tools in modern astrophysics" (WS 10/11)

Gillessen

Tools of modern astrophysics (WS 09/10)

Böhringer/Fassbender/ Phleps

Introduction to observational cosmology I (WS 09/10)

Introduction to observational cosmology II (SS 10)

Technische Universität München

Eisenhauer

Einführung in die Astrophysik (WS 09/10, WS 10/11)

Diehl

Observational High-Energy Astrophysics (SS 10)

Nuclei in the Cosmos, Astrophysikalisches Seminar mit Professoren vom TUM/LMU/MPA (WS 09/10, SS 10, WS 10/11)

Thoma/Kretschmer/Schwabe

Fortgeschrittenen Praktikum III und IV - Versuch 03: Plasmakristall (WS 09/10, SS 10, WS 10/11)

University of California, Berkeley

Genzel/Tacconi

Galaxy evolution from the galaxies' perspective: from gas to stars and back again (SS 10)

Universität Giessen

Thoma

Theoretische Plasmaphysik (WS 10/11)

Komplexe Plasmen (SS 10)

Goethe-Universität Frankfurt am Main

Boller

Verteilungsfunktionen der Astrophysik

CDM Kosmologie

Aktive Galaktische Kerne (WS 09/10)

Strahlung und Materie

Das Planetensystem

Physik der Sonne (SS 10)

Universität Heidelberg

Khochfar

Structure Formation of the Universe (WS 09/10)

Organisation of Seminars / Conferences

460th Wilhelm and Else Heraeus Seminar on Black Holes, Bad Honnef, Germany, 7.-11.6.2010, Organisation: S. Komossa, B. Schutz, K. Danzmann.

Ultraluminous X-ray Sources and Middle-Weight Black Holes, ESAC, Madrid, Spain, 24.-26.5.2010, Organisation: R. Mushotzky, D. Barret, A. Barth, H. Baumgardt, S. Komossa, H. Falcke, L. Ho, E. Koerding, M. Mendez, C. Motch, et al.

HEAD 2010 - Special Session on High-Energy Signatures of Massive Black Hole Mergers, Kona, USA, 1.-4.3.2010, Organisation: J. Centrella, S. Komossa.

Accretion and Outflow in Black Hole Systems, Kathmandu, Nepal, 10.-15.10.2010, Organisation: B. Aryal, M. Cappi, S. Colafrancesco, E. Gallo, J. Greiner, A. Janiuk, S. Komossa, J. Malzac, R. Misra, E. Palazzi, J. Poutanen, F. Yuan, A. Zdziarski, J. Ziolkowski.

The 5th Zermatt ISM Symposium. Conditions and Impact of Star Formation: New Results with Herschel and Beyond, Zermatt, Switzerland, 19.-24.9.2010, Organisation: M. Burton, J. Cernicharo, M. Harwit, D. Hollenbach, M. Meyer, A. Omont, M. Rubio, S. Schlemmer, J. Stutzki, L.J. Tacconi, X. Tielens, G. White, S. Yamamoto.

Extreme Starbursts in the Local Universe, Granada, Spain, 21.-25.6.2010, Organisation: A. Alonso-Herrero, G. Canalizo, P. Di Mateo, R. González Delgado, T. Heckman, P. Hopkins, J. Rodríguez-Zaurín, L.J. Tacconi, C. Tadhunter, J. Turner, S. Veilleux.

Massive Galaxies Over Cosmic Time 3: The Role of Gas and Dust, Tucson, Arizona, USA, 8.-10.11.2010, Organisation: R. Dave, V. Desai (co-Chair), A. Dey, D. Elbaz, D. Frayer, J. Melbourne, A. Pope (co-Chair), L.J. Tacconi.

Galaxies in the Distant Universe Workshop, Ringberg Castle, 17.-21.5.2010, Organisation: R. Bower, A. Cimatti, F. Combes, R. Davies, A. Dekel, B. Elmegreen, N.M. Förster Schreiber (co-chair), R. Genzel, G. Kauffmann, S. Lilly, D. Lutz, A. Shapley, L.J. Tacconi (co-chair).

Rocky Planets around cool stars Meeting, MPE Garching, 10.-11.5.2010, Organisation: R.P. Saglia.

ESF Exploratory Workshop: "Cosmogony of active galactic nuclei: unifying approaches for the next decade", Brindisi, Italy, 1.9.-3.9.2010, Organisation: A. Merloni, F. Panessa, R. Goosmann.

What drives the Growth of Black Holes, Durham, 26.-29.7.2010, Organisation: D. Alexander, R. Hickox, P. Best, R. Davies, T. di Matteo, A. Fabian, J. Greene, M. Volonteri.

WittFest: Origins & Evolution of Dust, Toledo, OH, USA, 10.-12.10.2010, Organisation: K.D. Gordon, G. Clayton, B. Draine, D. Furton, D. Pierini, J.D. Smith, T. Smith, U. Vijh and D. York.

Tracing the Ancestry of Galaxies (on the land of our ancestors), IAU Symposium No. 277, Ouagadougou, Burkina Faso, 13.-17.12.2010, Organisation: C. Carignan, K.C. Freeman, L. Blitz, D.L. Block, W.J.G. de Blok, M. Bureau, F. Combes, S. Courteau, K. Fathi, N.M. Förster Schreiber, R. Guzman, C. Mendes de Oliveira, J. Navarro, M. Pettini, Y. Sofue, and M. Steinmetz.

Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution, Ringberg Castle, Ringberg, Germany, 17.-21.5.2010, Organisation: N.M. Förster Schreiber, L.J. Tacconi, R. Bower, A. Cimatti, F. Combes, R. Davies, A. Dekel, B.G. Elmegreen, R. Genzel, G. Kauffmann, S.J. Lilly, D. Lutz, and A.E. Shapley.

Team meeting for DAO of Tau HST program, Boulder, Colorado, USA, 28.-30.6.2010, Organisation: G.J. Herczeg.

ESLAB 2010 - Herschel First Results Symposium, Noordwijk, Netherlands, 4.-7.5.2010, Organisation: P. Barthel, J. Cernicharo, P. Encrenaz, J. Fischer, M. Griffin, P. Harvey, M. Harwit, F. Helmich, T. Phillips, G. Pilbratt, A. Poglitsch, J. Riedinger, L. Vigroux and C. Waelkens.

Directional discontinuities in the interplanetary magnetic field, International Space Science Institute, Bern, Switzerland, 1.-7.7.2010. Organisation: G. Paschmann

Solar Energetic Particles: Session C of the Joint ACE / SOHO / STEREO / WIND In-Situ Science Symposium, Kennebunkport, USA, 8.-10.6.2010. Organisation: B. Klecker, D. Mewaldt

Plasma Medicine Workshop, Ringberg Castle, 12.-15.10.2010. Organisation: K. Hartmann, J. Zimmermann.

Publications

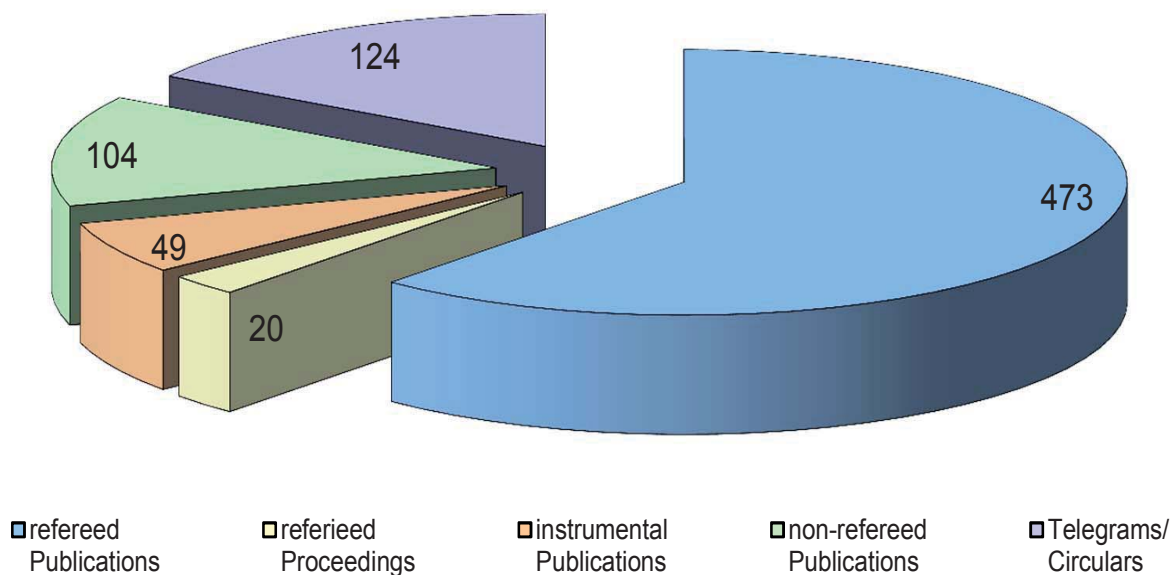
Here we present a tabular and graphical summary of our publication activities in 2010. The publications are counted by science group and publication type. The individual publications are listed consecutively.

Summary of MPE Publications in 2010

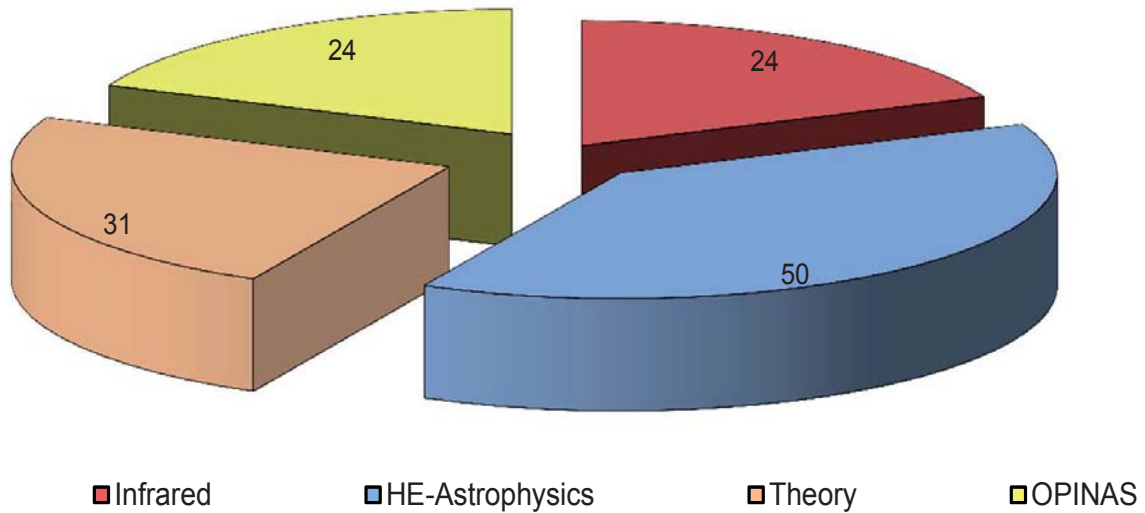
Science Group	refereed Publications	refereed Proceedings	Instrument. Publications	non-refereed Publications	Telegrams/Circulars	Talks	Poster
IR	24 (124)	0 (0)	11 (31)	10 (24)	1 (4)	111 (157)	14
HE Astrophysik	50 (203)	4 (5)	5 (11)	14 (36)	84 (118)	104 (171)	19
Theorie	31 (74)	9 (10)	0 (0)	9 (14)	0 (0)	40 (80)	13
OPINAS	24 (72)	0 (5)	2 (7)	16 (30)	0 (2)	22 (39)	3
Insgesamt	129 (473)	13 (20)	18 (49)	49 (104)	85 (124)	277 (447)	51

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.

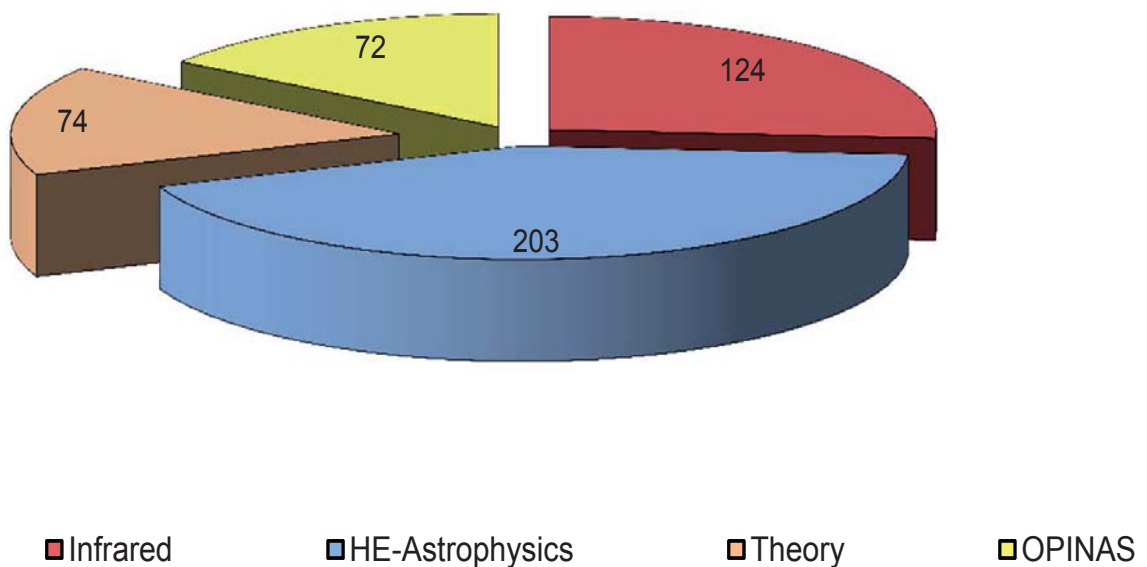
Total MPE Publications 2010 (by type)

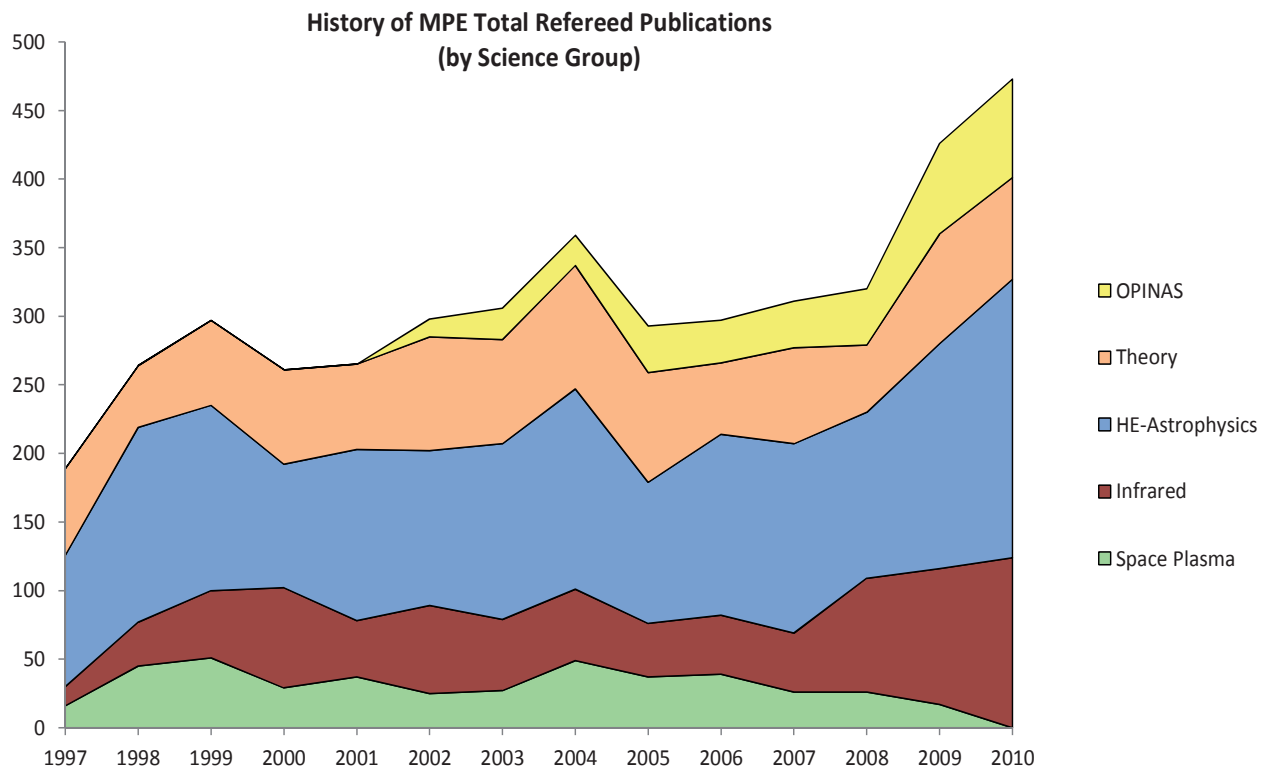


Refereed Publications with MPE first author in 2010 (by Science Group)



Total refereed MPE Publications in 2010 (by Science Group)





Refereed Publications

- Abbas, U., S. de la Torre, O. Le Fèvre, L. Guzzo, C. Marinoni, B. Meneux, A. Pollo, G. Zamorani, D. Bottini, B. Garilli, V. Le Brun, D. Maccagni, R. Scaramella, M. Scoderggio, L. Tresse, G. Vettolani, A. Zanichelli, C. Adami, S. Arnouts, S. Bardelli, M. Bolzonella, A. Cappi, S. Charlot, P. Ciliegi, T. Contini, S. Foucaud, P. Franzetti, I. Gavi-gnaud, O. Ilbert, A. Iovino, F. Lamareille, H.J. McCracken, B. Marano, A. Mazure, R. Merighi, S. Paltani, R. Pellò, L. Pozzetti, M. Radovich, D. Vergani, E. Zucca, M. Bondi, A. Bongiorno, J. Brinchmann, O. Cucciati, L. de Ravel, L. Gregorini, E. Perez-Montero, Y. Mellier and P. Merluzzi: The VIMOS-VLT Deep Survey: evolution in the halo occupation number since $z \sim 1$. *Mon. Not. R. Astron. Soc.* 406, 1306-1317 (2010).
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- Becker, W.: The HRTA Potential of IXO, invited talk, High Time Resolution Astrophysics IV - The Era of Extremely Large Telescopes, Crete, May 2010.
- Becker, W.: Exploring the X-ray Sky with eROSITA, invited talk, GeV-TeV Workshop on Pulsars, Aspen Summer School, Aspen, USA, June 2010.
- Becker, W.: Studying Neutron Stars with IXO and eROSITA, contributed talk, SPIE: Observational Frontiers of Astronomy for the New Decade, San Diego, USA, June 2010.
- Becker, W.: The 16-ms Pulsar J0537-6910 and its Plerion, contributed talk, COSPAR Scientific Assembly, Bremen, Germany, July 2010.
- Becker, W.: Unser Universum, public talk, Volkshochschule Oberhaching, Germany, July 2010.
- Becker, W.: Studying Neutron Stars with IXO and eROSITA, invited talk, ASTRON Conference on Pulsars and Neutron Stars, Cesme, Turkey, August 2010.
- Becker, W.: Pulsars in X-rays, invited talk, PULSAR 2010, Chia, Sardinia, Italy, October 2010.
- Becker, W.: Pulsars to be studied with GRAVITAS, invited talk, GRAVITAS Workshop, MPE Garching, Germany, October 2010.
- Becker, W.: Pulsars in X-rays, prospects with GRAVITAS, colloquium, Sabanci University, Istanbul, October 2010.
- Bernhardt, M.G.: Spacecraft Navigation Using X-ray Pulsars, contributed talk, Joined Bonn-Munich Pulsar Meeting, Garching, Germany, December 2010.
- Bernhardt, M.G.: Spacecraft Navigation Using X-ray Pulsars, contributed talk, MPE, Garching, Germany, November 2010.
- Berta, S.: Dissecting the Cosmic Infrared Background with Herschel/PEP, contributed talk, Cosmic Radiation Fields - Sources in the early Universe (CRF 2010), Hamburg, Germany, November 2010.
- Berta, S.: Dissecting the Cosmic Infrared Background with Herschel/PEP, contributed talk, Galaxy evolution: infrared to millimeter wavelength perspective, Guilin, China, October 2010.
- Berta, S.: Dissecting the Cosmic Infrared Background with Herschel/PEP, contributed talk, The impact of Herschel surveys on ALMA Early Science, ESO-Garching, Germany, November 2010.
- Berta, S.: Herschel, PEP and galaxy evolution, colloquium, Dipartimento di Astronomia, Universita' degli Studi di Padova, Padova, Italy, December 2010.
- Berta, S.: Herschel, PEP and galaxy evolution, contributed talk, Evolution of galaxies, their central black holes and their large-scale environment, Potsdam, Germany, September 2010.
- Berta, S.: PEP: Dissecting the Cosmic Infrared Background, contributed talk, Herschel First Results Symposium (aka ESLAB 2010), Noordwijk, The Netherlands, May 2010.
- Boller, Th.: Anfang und Ende des Universums: Was mit uns geschehen wird, public talk, The first Novartis Pneumo Convent, Dortmund, Germany, February 2010.
- Boller, Th.: Anfang und Ende des Universums, public talk, Cafe und Kosmos, MPE, ESO, TUM, Excellence Cluster, Munich, Germany, September 2010.
- Boller, Th.: Anfang und Ende des Universums, public talk, Rotary Club Freising, Freising, Germany, January.
- Boller, Th.: Die wahre Geschichte des Sterns von Bethlehem aus astronomischer Sicht, public talk, Fachhochschule Zwickau, Bibliothek im Dialog, Zwickau, Germany, November 2010.
- Boller, Th.: Observational evidence of black holes, invited talk, Symposium on Nuclear Physics, Goa, India, November 2010.
- Boller, Th.: Soft X-ray reflection in Narrow-Line Seyfert 1 Galaxies, contributed talk, IXO Science Meeting, Paris, France, April 2010.
- Boller, Th.: Soft X-ray reflection in Narrow-Line Seyfert 1 Galaxies, invited talk, Astroparticle Physics of High Energy Cosmic Sources, Vulcano, Italy, May 2010.
- Boller, Th.: Strong and weak field limit determination with soft X-rays, contributed talk, Chandra Conference, Boston, USA, May 2010.
- Boller, Th.: The strong and weak field limit in NLS1 Galaxies, contributed talk, Tagung der Astronomischen Gesellschaft, Bonn, Germany, September 2010.
- Boller, Th.: Anfang und Ende des Universums, public talk, Rotary Club München Flughafen, München Flughafen, Germany, November 2010.
- Bombelli, L.: A new readout method based on source-current readout for DEPFET-based imagers, contributed talk, IEEE Nuclear Science symposium, Knoxville, USA, November 2010.
- Brandt, P.C.: Weakly anisotropic and string fluid phases in magnetorheological systems, contributed talk, 12th International Conference on Magnetic Fluids, Sendai, Japan, August 2010.

- Brusa, M.: GRAVITAS follow-up of eROSITA sources, invited talk, 1st GRAVITAS science meeting, Garching, Germany, October 2010.
- Brusa, M.: The high redshift AGN population in COSMOS and CDFS, contributed talk, Ninth National Italian Congress on AGN, Ferrara, Italy, May 2010.
- Brusa, M.: The highest redshift, X-ray selected AGN, invited talk, ESF workshop on "Cosmogony of AGN", Brindisi, Italy, September 2010.
- Brusa, M.: The highest-redshifts, X-ray selected AGN, contributed talk, High Energy View of Accreting Objects: AGN and X-ray Binaries, Agios Nikolaos, Crete, Greece, October 2010.
- Bunk, W.: Evaluating the Wound Healing Process using an Image Analysis Approach, invited talk, Plasma Medicine Workshop, Ringberg Castle, Kreuth, Germany, October 2010.
- Bunk, W.: Synchronization Patterns Revealed by Time-Scale Resolved Symbol Maps, invited talk, The 8th American Institute of Mathematical Sciences (AIMS) International Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Germany, May 2010.
- Chaudhuri, M.: Complex plasma - the plasma state of soft matter, contributed talk, International Soft Matter Conference, Granada, Spain, July 2010.
- Chaudhuri, M.: Exploring complex plasmas with exciting laboratory and microgravity (onboard International Space Station) experiments, invited talk, Saha Institute of Nuclear Physics, Kolkata, India, January 2010.
- Chaudhuri, M.: The pleasure of looking at unusual events in Complex plasmas, contributed talk, Complex Plasma Workshop, Ringberg, Germany, October 2010.
- Collmar, W.: The peculiar SED variability of the Blazar 3C 279, contributed talk, Tagung der Astronomischen Gesellschaft, Bonn, Germany, September 2010.
- Collmar, W.: "Die Entwicklung des Universums" - Kosmologie-Ausstellung im Deutschen Museum, contributed talk, Tagung der Astronomischen Gesellschaft, Bonn, Germany, September 2010.
- Contursi, A.: Far infrared lines mapping of M82 with Herschel-PACS, contributed talk, Herschel First Results Symposium (ESLAB2010), ESA ESTEC, Noordwijk, The Netherlands, May 2010.
- Davies, R.I.: Dissecting Galaxies with Adaptive Optics, contributed talk, Adaptive Optics Systems II, San Diego, USA, June 2010.
- Davies, R.I.: MICADO: The E-ELT Adaptive Optics Imaging Camera, invited talk, Galaxy Formation and Evolution with the European ELT, London, UK, January 2010.
- Davies, R.I.: MICADO: the E-ELT Adaptive Optics Imaging Camera, contributed talk, Ground-based and Airborne Instrumentation for Astronomy III, San Diego, USA, June 2010.
- Davies, R.I.: Nuclear Star Formation and its Impact on AGN Fuelling, invited talk, Compact super star clusters, birth evolution and feedback, Puebla, Mexico, July 2010.
- Davies, R.I.: Nuclear Star Formation, The Torus, and Gas Inflow in Seyfert Galaxies, invited talk, Central Massive Objects: The Stellar Nuclei - Black Hole Connection, Garching, Germany, June 2010.
- Davies, R.I.: Prospects with IFUs: KMOS, MUSE, and JWST, invited talk, Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution, Ringberg Castle, Germany, May 2010.
- Davies, R.I.: The Impact of Nuclear Star Formation on Gas Inflow to AGN, colloquium, Institute of Astronomy, University of Cambridge, Cambridge, UK, April 2010.
- Davies, R.I.: The Impact of Nuclear Star Formation on Gas Inflow to AGN, colloquium, Joint Astronomy Colloquium, Heidelberg, Germany, February 2010.
- Davies, R.I.: The role of secular evolution in forming and fuelling Narrow Line Seyfert 1 Nuclei, invited talk, What Drives the Growth of Black Holes?, Durham, UK, July 2010.
- Dennerl, K.: Charge Exchange in the Exospheres of Venus and Mars, invited talk, ESAC Workshop on Charge Exchange, Madrid, Spain, September 2010.
- Dennerl, K.: Charge Transfer Reactions, invited talk, High-resolution X-ray spectroscopy: past, present and future, Utrecht, The Netherlands, March 2010.
- Dennerl, K.: Mars in X-rays: a novel view of an ancient world, colloquium, ESOC XMM-Newton/Integral seminar, Darmstadt, Germany, November 2010.
- Dennerl, K.: Solar system observations with IXO/XMS, contributed talk, IXO XMS Science Requirements Meeting, Geneva, Switzerland, March 2010.
- de Vita, G.: A 5MHz Low-Noise 130 nm CMOS Analog Front-End Electronics for the readout of Non-Linear DEPFET Sensor with Signal Compression for the European XFEL, contributed talk, IEEE, Knoxville, USA, November 2010.
- Diehl, R.: Astronomical Gamma-Ray Observations: Cosmic Nuclei, invited talk, Pan-American Advanced Studies Institute on Rare Isotopes, Joao Pessoa, Brazil, August 2010.
- Diehl, R.: Chemical Evolution: Massive Star Activity and its Impacts, invited talk, 1st EuroGenesis Science Workshop of the European Science Foundation, Dubrovnik, Croatia, November 2010.
- Diehl, R.: Cosmic Nucleosynthesis: Sources and Measurements of Cosmic Radioactivity, invited talk, Astrophysics Graduate School, Basel University, Germany, April 2010.
- Diehl, R.: Cosmic Radio-Isotopes, invited talk, UK Workshop on Radioactivity in Astrophysics, York, United Kingdom, December 2010.
- Diehl, R.: Cosmic Radioactivity and Astronomy with Gamma-Ray Telescopes, colloquium, Physics Colloquium of Cologne University, Cologne, Germany, December 2010.
- Diehl, R.: Cosmic Radioactivity and Astronomy with Gamma-Ray Telescopes, colloquium, Physics Colloquium of York University, York, UK, December 2010.

- Diehl, R.: Cosmic Radioactivity and Astronomy with Gamma-Ray Telescopes, invited talk, Astroparticle School of German Astroparticle Community, Obertrubach, Germany, October 2010.
- Diehl, R.: Cosmic Radioactivity and Astronomy with Gamma-Ray Telescopes, invited talk, Graduate College and Seminar "Elementary Forces and Mathematical Foundations (EMG)", Mainz, Johannes Gutenberg Universität, Germany, December 2010.
- Diehl, R.: GRIPS and the Perspective of Next-Generation Gamma-Ray Surveys, contributed talk, 8th INTEGRAL Science Workshop, Dublin, Ireland, September 2010.
- Diehl, R.: Gamma-Ray Spectroscopy and Nucleosynthesis, contributed talk, XVth Nuclear Astrophysics Workshop, Ringberg Castle, Germany, March 2010.
- Diehl, R.: How to Exploit Nuclear Physics for Astrophysics: Gamma-Ray Astronomy, invited talk, Winter School on Nuclear Astrophysics, Russbach, Austria, March 2010.
- Diehl, R.: INTEGRAL and Gamma-Ray Lines from Cosmic Nucleosynthesis, contributed talk, XI International Conference "Nuclei in the Cosmos", Heidelberg, Germany, July 2010.
- Diehl, R.: Interstellar radioactive decays as a diagnostic of the ISM, contributed talk, Annual Meeting of the German Astronomical Society, Bonn, Germany, September 2010.
- Diehl, R.: Massive Star Astrophysics with Gamma-Ray Telescopes, colloquium, Institute Colloquium of the USM, Munich University, Munich, Germany, November 2010.
- Diehl, R.: Massive Star Nucleosynthesis and INTEGRAL, contributed talk, 8th INTEGRAL Science Workshop, Dublin, Ireland, September 2010.
- Diehl, R.: Massive-Star Nucleosynthesis: Lessons from INTEGRAL, invited talk, 10th Conference on Origin of Matter and Evolution of Galaxies, Osaka University, Japan, March 2010.
- Diehl, R.: Nuclear Astrophysics, invited talk, Astro-Particle-Physics in Germany, DESY Zeuthen, Germany, February 2010.
- Diehl, R.: Nuclear Astrophysics, invited talk, Astro-Particle-Physics in Germany, Osaka University, Japan, March 2010.
- Diehl, R.: Nuclear Astrophysics, invited talk, Experimental Nuclear Astrophysics Workshop, Forschungszentrum Rossendorf, Germany, April 2010.
- Diehl, R.: Nukleosynthese: Die Erzeugung der kosmischen Vielfalt der Elemente, colloquium, VERA Institute of the Vienna University, Vienna, Austria, June 2010.
- Diehl, R.: Observing Nuclei in Cosmic Sites, invited talk, Nuclear Astrophysics Graduate Training Course of European Center for Theoretical Studies in Nuclear Physics and Related Areas, European Center for Theoretical Studies in Nuclear Physics and Related Areas, Trento, Italy, June 2010.
- Diehl, R.: Positrons from X-Ray Binaries and Microquasars, contributed talk, GRIPS Consortium Meeting, Garching, Germany, September 2010.
- Diehl, R.: Radioactive Decays as a Tool of Astrophysics, invited talk, Science Seminar of the TU Berlin Institute for Astrophysics, Berlin, Germany, October 2010.
- Diehl, R.: Summary Report: Research Area "Cosmic Evolution of Elements", invited talk, Science Week of the Munich Excellence Cluster "Origins and Evolution of the Universe", Garching, Germany, October 2010.
- Dobbs Clare, C.L.: Molecular cloud and star formation in spiral galaxies, contributed talk, From Stars to Galaxies, Gainesville, USA, April 2010.
- Dobbs, C.L.: Gas dynamics in whole galaxies: SPH, invited talk, IAU symposium 270: Computational star formation, Barcelona, Spain, June 2010.
- Dobbs, C.L.: Star formation in galaxies, invited talk, Zermatt 5th ISM symposium, Zermatt, Switzerland, September 2010.
- Dobbs, C.L.: Star formation in galaxies, public talk, German female physicists conference, Munich, Germany, November 2010.
- Dodds-Eden, K.: Time Dependent Models of Flares from Sgr A*, colloquium, MPE (Seminar High Energy Group), Garching, Germany, May 2010.
- Dodds-Eden, K.: Time Dependent Models of Flares in Sgr A*, colloquium, MPA (High Energy Seminar), Garching, Germany, April 2010.
- Du, C.-R.: Agglomeration of Microparticles in Complex Plasmas, contributed talk, 52nd Annual Meeting of the Division of Plasma Physics of the American Physical Society, Chicago, Germany, November 2010.
- Du, C.-R.: Dust agglomeration induced by self-excited density waves in a complex plasma, contributed talk, Spring Meeting 2010 of the Section AMOP, Hannover, Germany, March.
- Eisenhauer, F.: GRAVITY: Probing Strong Gravity with the VLT Interferometer, contributed talk, TEXAS 2010: 25th Symposium on Relativistic Astrophysics, Heidelberg, Germany, December 2010.
- Eisenhauer, F.: Imaging and astrometry of black holes at radio- and infrared wavelengths, invited talk, Probing Strong Gravity near Black Holes, Prague, Czech Republic, February 2010.
- Eisenhauer, F.: Probing Physics Close to the Event Horizon of the Galactic Center Black Hole with GRAVITY, invited talk, Laboratory of Systems, Instrumentation and Modeling for Environment and Space Sciences and Technologies, Lisbon, Portugal, March 2010.
- Elbs, J.: Low Temperature Detectors: Principles and Applications in Astrophysics, invited talk, Cryoconference, Marie Curie Advanced Cryogenics Course, Kosice, Slovakia, September 2010.
- Elbs, J.E.: Electronic test system for the eROSITA x-ray PNCCDs, contributed talk, SPIE Conference on High Energy, Optical, and Infrared Detectors for Astronomy IV, San Diego, USA, June 2010.
- Erwin, P.: Do Nuclear Star Clusters and Supermassive Black Holes Follow the Same Host-Galaxy Correlations?,

- contributed talk, ESO Workshop on Central Massive Objects, Garching, Germany, June 2010.
- Erwin, P.: Peanuts at an Angle: The Three-Dimensional Structure of Bars in Moderately Inclined Galaxies, contributed talk, American Astronomical Society Meeting, Washington DC, USA, January 2010.
- Erwin, P.: The Coexistence of Classical Bulges and Pseudobulges (and Supermassive Black Holes), colloquium, Carnegie Observatories, Pasadena, USA, September 2010.
- Förster Schreiber, N.M.: Dynamics, Gas, and Star Formation of $z \sim 2$ Galaxies, invited talk, Oort Workshop: From Reionization to the Emergence of the Hubble Sequence, Leiden, The Netherlands, June 2010.
- Förster Schreiber, N.M.: Resolving the Dynamics and Physical Properties of $z \sim 2$ Galaxies, colloquium, INAF/Astronomical Observatory of Bologna, Bologna, Italy, February 2010.
- Förster Schreiber, N.M.: Resolving the Dynamics, Star Formation, and Physical Properties of $z \sim 2$ Galaxies, colloquium, Department of Physics and Astrophysics, University of Oxford, Oxford, UK, February 2010.
- Förster Schreiber, N.M.: Resolving the Dynamics, Star Formation, and Physical Properties of $z \sim 2$ Galaxies, colloquium, Institute of Cosmology and Gravitation, University of Portsmouth, Portsmouth, United Kingdom, February 2010.
- Förster Schreiber, N.M.: Star formation in high redshift galaxies: insights from resolved observations of the ionized and molecular gas, invited talk, NOAO 50th Anniversary Symposium: From First Light to Newborn Stars, Tucson, USA., March 2010.
- Förster Schreiber, N.M.: The Growth of Galaxies at $z \sim 2$: Insights from IFU Surveys, colloquium, Department of Physics, McGill University, Montreal, Canada, November 2010.
- Förster Schreiber, N.M.: The Growth of Galaxies at $z \sim 2$: Insights from IFU Surveys, colloquium, Space Telescope Science Institute, Baltimore, USA., October 2010.
- Förster Schreiber, N.M.: Towards resolving $z \sim 2$ galaxies on 100-pc scales, contributed talk, ESA/ESO Workshop: JWST and the ELTs: An Ideal Combination, Garching, Germany, April 2010.
- Fassbender, R.: The X-ray luminous galaxy cluster population in the first half of the Universe, contributed talk, Galaxy Clusters: observations, physics and cosmology, Garching, Germany, July 201.
- Fassbender, R.: Galaxy Clusters in the first half of cosmic time, colloquium, Universidad Andres Bello, Santiago, Chile, December 2010.
- Fassbender, R.: Galaxy clusters in the first half of cosmic time, colloquium, USM, Munich, Germany, October 2010.
- Fassbender, R.: Galaxy clusters in the first half of cosmic time, colloquium, Universidad Catolica de Chile, Santiago, Chile, December 2010.
- Fassbender, R.: Mass estimates, cluster assembly, and merger physics from a multi-wavelength study of the cluster XMMU J12330.3+1339 at $z=1$, contributed talk, CI J2010+0628: From massive galaxy formation to Dark Energy, Kashiwa, Japan, June 2010.
- Fassbender, R.: The galaxy population of distant X-ray clusters and their environments at $z > 1$, contributed talk, Witnesses of Cosmic History, Potsdam, Germany, September 2010.
- Fischer, P.: Pixel Readout ASIC with per Pixel Digitization and Digital Storage for the DSSC Detector at XFEL, contributed talk, 2010 IEEE Nuclear Science symposium, Knoxville, USA, November 2010.
- Fritz, T.: GC-IRS13E- A puzzling association of early-type stars, contributed talk, Central Massive Objects: The Stellar Nuclei - Black Hole Connection, Garching, Germany, June 2010.
- Fritz, T.: The prospects of probing relativity in the Galactic Center with Adaptive Optics Observations, contributed talk, Probing Strong Gravity near Black Holes, Prague, Czech Republic, February 2010.
- Gaibler, V.: Impact of Jets on Galactic Gaseous Disks, invited talk, Puzzles of Galactic Nuclei, Garching, Germany, June 2010.
- Gaibler, V.: Jet Feedback in High-Redshift Galaxies, contributed talk, COSPAR 2010, Bremen, Germany, July 2010.
- Genel, S.: Dark Matter Halos and $z \sim 2$ Galaxies: Mergers, Smooth Accretion, and Feedback, invited talk, Astrophysikalisches Institut Potsdam, Potsdam, Germany, December 2010.
- Genel, S.: Formation of $z \sim 2$ Star-forming Disks, invited talk, USM/LMU, Garmisch-Partenkirchen, Germany, March 2010.
- Genel, S.: High Resolution Cosmological Simulations at High- z : Disks, invited talk, Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution, Ringberg Castle, Germany, May 2010.
- Genel, S.: High-resolution Cosmological Simulations of $z \sim 2$ Disks, invited talk, Santa Cruz Workshop on Galaxy Formation, Santa Cruz, USA, August 2010.
- Genel, S.: On the Formation of Gas-rich Star-forming Disks at $z \sim 2$: Cosmological 'Zoom-in' Simulations, invited talk, UC Berkeley, Berkeley, USA, August 2010.
- Genel, S.: On the Growth of Dark Matter Halos and the Formation of Rapidly Star-forming Galaxies at Redshift ~ 2 , colloquium, American Museum of Natural History, New York, USA, September 2010.
- Genel, S.: On the Growth of Dark Matter Halos and the Formation of Rapidly Star-forming Galaxies at Redshift ~ 2 , colloquium, Center for Astrophysics, Harvard University, Cambridge, USA, September 2010.
- Genel, S.: Simulations of Rapidly Star-forming Galaxies at Redshift ~ 2 : The Roles of Mergers, Smooth Accretion, and Feedback, colloquium, Canadian Institute for Theoretical Astrophysics (CITA), Toronto, Canada, September

2010.

Genel, S.: Simulations of Rapidly Star-forming Galaxies at Redshift ~ 2 : The Roles of Mergers, Smooth Accretion, and Feedback, colloquium, Columbia University, New York, USA, September 2010.

Genzel, R.: Some new results on feedback, colloquium, Theory Lunch, University of California Berkeley, USA, September 2010.

Genzel, R.: First Results from Herschel PACS, colloquium, Cosmology Talk, University of Berkeley, Berkeley, USA, February 2010.

Genzel, R.: Massive Schwarze Löcher und Galaxien, invited talk, Tag der Physik, TU (Technische Universität), Munich, Germany, July 2010.

Genzel, R.: Massive Schwarze Löcher und Galaxien, public talk, 25th Texas Symposium on Relativistic Astrophysics, Heidelberg, Germany, December 2010.

Genzel, R.: New Results from Herschel, invited talk, UC Santa Cruz Galaxy evolution meeting, Santa Cruz, USA, August 2010.

Genzel, R.: Observations of the Galactic Center - An Overview of Recent Results, invited talk, LISA Astro-GR Meeting on gravitational-wave and electromagnetic signatures of massive black hole binaries and extreme mass-ratio inspirals, Paris, France, September 2010.

Genzel, R.: Results from Herschel PACS, colloquium, Cosmology Talk, Berkeley, USA, February 2010.

Genzel, R.: Spatially resolved dynamics of $z \sim 2$ forming galaxies, colloquium, UCSD-CASS Special Astrophysics Seminar, San Diego, USA, February 2010.

Genzel, R.: The formation and evolution of massive protodisk galaxies, colloquium, Jansky Lecture, Charlottesville, USA, November 2010.

Genzel, R.: The massive Black Hole and nuclear star cluster of the Milky Way, invited talk, Sommerfeld Theory Colloquium, Ludwig-Maximilian University, Munich, Germany, June 2010.

Genzel, R.: First Science Results with Herschel, invited talk, Interdisciplinary Lecture, COSPAR 38th Scientific Assembly, Bremen, Germany, July 2010.

Genzel, R.: Formation and evolution of massive Galactic disks at $z \sim 1-2$, invited talk, Cecilia Payne-Gaposchkin Lecture, Center for Astronomy, Cambridge, USA, May 2010.

Genzel, R.: Gas-rich massive disks at $z \sim 2$, invited talk, Conference "Massive Galaxies Over Cosmic Time 3: The Role of Gas and Dust", Tucson, USA, November 2010.

Genzel, R.: High- z galaxy disks, invited talk, Ringberg Workshop on high- z galaxies, Ringberg, Germany, May 2010.

Genzel, R.: News and puzzles from the Galactic Center, invited talk, Workshop "Puzzles of Galactic Nuclei", Garching, Germany, June 2010.

Genzel, R.: Observed Dynamics of S Stars (The View from the VLT), invited talk, Sackler Conference/6th Harvard Smithsonian Conf. on Theoretical Astrophysics, Cambridge, USA, May 2010.

Genzel, R.: The Galactic Center Black Hole and nuclear star cluster, public talk, Jansky Lecture, Charlottesville, USA, November 2010.

Genzel, R.: The Galactic Center Black Hole and nuclear star cluster, public talk, Jansky Lecture, Socorro, USA, November 2010.

Genzel, R.: The formation and evolution of massive protodisk galaxies, colloquium, NRAO, Socorro, USA, November 2010.

Gerhard, O.E.: Dynamics of the Outer Halos of Elliptical Galaxies, invited talk, "Galaxies and their Masks", Conference in Honor of Ken Freeman, Sossusvlei, Namibia, April 2010.

Gerhard, O.E.: The Galactic Bar, invited talk, "Dynamics from the Galactic Center to the Milky Way Halo", 6th Sackler Conference, Harvard University, Cambridge, USA, May 2010.

Gerhard, O.E.: Central Massive Objects: The Stellar Nuclei - Black Hole Connection, invited talk, ESO Garching, Germany, June 2010.

Gerhard, O.E.: Galactic Dynamics, invited talk, Summer School "Evolution of Galaxies and their Large-Scale Environment", Bad Honnef, Germany, July 2010.

Gerhard, O.E.: Intracluster Light and Halos of Cluster-Central Galaxies, invited talk, "Evolution of Galaxies, their Central Black Holes, and their Large-Scale Environment", Potsdam, Germany, September 2010.

Gerhard, O.E.: Outer Halos of Early-Type Galaxies: Growth over Time, invited talk, "Galaxy Clusters: Observations, Physics and Cosmology", Garching, Germany, July 2010.

Gerhard, O.E.: Gas dynamics and spiral arms in the Milky Way, invited talk, "Spiral Structure in the Milky Way: Confronting Observations and Theory", Bahia Inglesa, Chile, November 2010.

Gillessen, S.: A unique laboratory - the Galactic Center, invited talk, MODEST 10, Beijing, China, August 2010.

Gillessen, S.: A unique laboratory: The Massive Black Hole in the Galactic Center, invited talk, Central Massive Objects: The Stellar Nuclei - Black Hole Connection, Garching, Germany, June 2010.

Gillessen, S.: Ferne Planetenwelten, public talk, Anton-Bruckner-Gymnasium, Straubing, Germany, February 2010.

Gillessen, S.: Flaring in Sgr A*, invited talk, UCLA, Los Angeles, USA, October 2010.

Gillessen, S.: Flaring in Sgr A*, invited talk, Universite Strasbourg, Strasbourg, France, September 2010.

Gillessen, S.: Flaring in Sgr A*, invited talk, What Drives the Growth of Black Holes?, Durham, UK, July 2010.

Gillessen, S.: GRAVITY - a four telescope beam combiner instrument for the VLTI, invited talk, Caltech, Pasadena, USA, October 2010.

Gillessen, S.: GRAVITY: a four telescope beam combiner for the VLTI, contributed talk, SPIE, San Diego, USA, June 2010.

- Gillessen, S.: Podiumsdiskussion "Das Unsagbare Sagen", public talk, Bayrische Architektenkammer, Munich, Germany, March 2010.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Deutsch-Chilenischer Bund, Santiago, Chile, August 2010.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Interface AG, Unterhaching, Germany, September 2010.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Jahrestagung Verband der Angewandten Thermografie, Hamburg, Germany, May 2010.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, MPI für Kernphysik - Physik am Samstag Morgen, Heidelberg, Germany, November 2010.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Planetarium Bochum, Bochum, Germany, September 2010.
- Gillessen, S.: The Massive Black Hole in the Galactic Center, invited talk, IHEP, Beijing, China, September 2010.
- Gillessen, S.: The Massive Black Hole in the Galactic Center, invited talk, JENAM 2010, Lisbon, Portugal, September 2010.
- Gillessen, S.: The Massive Black Hole in the Galactic Center, invited talk, Sapienza - Università di Roma, Rome, Italy, April 2010.
- Gillessen, S.: The Massive Black Hole in the Galactic Center, invited talk, Universidad Catolica, Santiago, Chile, August 2010.
- Gillessen, S.: The Massive Black Hole in the Galactic Center, invited talk, Universidad de Antofagasta, Antofagasta, Chile, June 2010.
- Gillessen, S.: The Power of Monitoring Stellar Orbits, invited talk, Star formation under extreme conditions: the Galactic Center, Besancon, France, December 2010.
- Gillessen, S.: The power of precision - Stellar orbits around Sgr A*, invited talk, UCLA, Los Angeles, USA, June 2010.
- Graciá-Carpio, J.: Dynamics and High Cold Gas Fractions in Star Forming Galaxies at $z=1-3$, invited talk, Challenges in Infrared Extragalactic Astrophysics II, Crete, Greece, September 2010.
- Graciá-Carpio, J.: Far-infrared Emission Lines in Galaxies: The SHINING Contribution to the Understanding of General Trends, contributed talk, Stormy Cosmos: The Evolving ISM from Spitzer to Herschel and Beyond, Pasadena, USA, November 2010.
- Greiner, J.: Afterglows of Fermi GRBs, invited talk, HEAD Meeting, Hawaii, USA, March 2010.
- Greiner, J.: GRB 090510 and the limits on Lorentz invariance violation, colloquium, Universe Cluster, Garching, Germany, February 2010.
- Greiner, J.: GRBs at the extreme - the experimental challenge to detect high-redshift ($z>12$) sources, contributed talk, Cosmic Chemical Evolution, St. Michaels, USA, June 2010.
- Greiner, J.: GRIPS - The potential of a future MeV survey, contributed talk, AG Tagung Bonn, Bonn, Germany, September 2010.
- Greiner, J.: GRIPS - The potential of a future MeV survey, invited talk, Gamma-ray Astrophysics in the Multimessenger context, Trieste, Italy, September 2010.
- Greiner, J.: GROND - a simultaneous 7-channel imager: expectations and reality, invited talk, Mid-Sized Telescopes: Science and Instrumentation, Kish Islands, Iran, December 2010.
- Greiner, J.: GROND observations of GRB afterglows, contributed talk, Science Day Research Area F, Universe Cluster, Garching, Germany, December 2010.
- Greiner, J.: GROND observations of GRB afterglows, invited talk, Deciphering the Ancient Universe with GRBs, Kyoto, Japan, April 2010.
- Greiner, J.: GROND view of the "dark burst" mystery, contributed talk, Cosmic Chemical Evolution, St. Michaels, USA, June 2010.
- Greiner, J.: Jet opening angles in Gamma-ray bursts, invited talk, Accretion and Outflow in Black Hole Systems, Kathmandu, India, October 2010.
- Greiner, J.: New developments in GRB research: Fermi, Swift and GROND observations, colloquium, University Innsbruck, Innsbruck, Austria, June 2010.
- Greiner, J.: The transient sky, invited talk, Texas 2010 Symposium, Rapporteur talk of Parallel Session P3, Heidelberg, Germany, December 2010.
- Haberl, F.: Calvera - a mildly recycled pulsar?, contributed talk, Joined Bonn-Munich Pulsar Meeting, Garching, Germany, December 2010.
- Haberl, F.: Spectral evolution of SN 1987A as seen with XMM-Newton, contributed talk, High-resolution X-ray spectroscopy: past, present and future, Utrecht, The Netherlands, March 2010.
- Haberl, F.: X-ray Properties of High Mass X-ray Binaries, invited talk, High Energy View of Accreting Objects: AGN and X-ray Binaries, Crete, Greece, October 2010.
- Haerendel, G.: Low-Altitude Signatures of the Substorm - A Review, invited talk, 10th International Conference on Substorms (ICS10), Pismo Beach, San Luis Obispo, California, USA, March 2010.
- Haerendel, G.: Auroral Arcs and Their Source Regions, invited talk, Workshop on the Advances and Perspectives in Auroral Plasma Physics (APPW), Beaulieu-sur-Mer, France, April 2010.
- Haerendel, G.: Fascinating Plasma Structures - comet tails, auroral arcs, and solar prominences, invited talk, European Geophysical Union, General Assembly 2010, Vienna, May 2010.
- Haerendel, G.: The Growth Phase Arcs and Substorm Onset, invited talk, 19th Cluster Workshop on Multi-point Investigations of Magnetosphere-Ionosphere Coupling and Aurora, Poiana Braşov, Romania, May 2010.
- Haerendel, G.: A Droplet Model for Quiet Prominences Downflows, colloquium, University of California, Space

Sciences Laboratory, Berkeley, USA, July 2010.

Haerendel, G.: A Droplet Model for Quiet Prominences Downflows, contributed talk, COSPAR 2010 Scientific Assembly, Bremen, Germany, July 2010.

Haerendel, G.: Magnetic Fractures or Reconnection of Type II, invited talk, IAU Symposium No. 274, Giardini Naxos, Italy, September 2010.

Haerendel, G.: Do we understand the generator of breakup arcs and westward travelling surge?, invited talk, Conference on Theory of the Magnetosphere, Santa Fe, USA, October 2010.

Hailey-Dunsheath, S.: Far-IR Fine-Structure Lines from $z = 0$ to $z \approx 2$: First Results from Herschel-PACS, contributed talk, Astronomische Gesellschaft Annual Meeting and General Assembly, Bonn, Germany, September 2010.

Herczeg, G.: Accretion onto young low-mass stars and brown dwarfs, contributed talk, Lunch talk, Space Telescope Science Institute, Baltimore, USA, May 2010.

Herczeg, G.: Herschel/PACS spectroscopy of envelopes and disks around low-mass young stars, contributed talk, The impact of Herschel surveys on ALMA Early Science, Garching, Germany, November 2010.

Herczeg, G.: Observational Diagnostics of Magnetospheric Accretion, invited talk, Dutch CSM/ISM Workshop, Leiden Observatory, Leiden, The Netherlands, November 2010.

Herczeg, G.: Observational Diagnostics of Magnetospheric Accretion, invited talk, Observatoire de Geneve, Geneva, Switzerland, December 2010.

Herczeg, G.: The Disks, Accretion, and Outflow (DAO) of T Tau Stars, invited talk, COS special session at The Science of Hubble III, Venice, Italy, October 2010.

Herczeg, G.: CO Fundamental Emission from Disks Around Embedded Objects, contributed talk, American Astronomical Society Meeting, Washington DC, USA, January 2010.

Hou, L.J.: Dynamics of Ar metastables in RF CCP discharge: PIC/MCC/DSMC simulation, contributed talk, 63rd GEC and 7th ICRP joint conference, Paris, France, October 2010.

Hou, L.J.: Numerical experiments on strongly coupled complex plasmas, invited talk, 25th Summer School and International Symposium on the Physics of Ionized Gases, Donji Milanovac, Serbia, September 2010.

Hou, L.J.: PIC simulation of plasma discharges in PK3+, Zyflex and PK4 chambers, contributed talk, PK3+ Symposium 2010, Garching, Germany, December 2010.

Ivlev, A.V.: Complex Plasmas: Novel classes of non-Hamiltonian dynamics, invited talk, International Advanced Workshop on the Frontiers of Plasma Physics, Trieste, Italy, July 2010.

Ivlev, A.V.: Complex plasmas: An interdisciplinary research field, colloquium, Institute for Materials Physics in Space, Cologne, Germany, June 2010.

Ivlev, A.V.: Phase separation in binary complex plasmas, contributed talk, APS March Meeting, Portland, USA, March 2010.

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Jiang, K.: Computer simulations on the phase separation of 3D binary complex plasmas, contributed talk, 63rd Annual Gaseous Electronics Conference and 7th International Conference on Reactive Plasmas, Paris, France, October 2010.

Johnson, J.L.: Accretion onto the first black holes formed by direct collapse, invited talk, What drives the growth of black holes?, Durham, England, July 2010.

Kanbach, G.: Magnetars: emissions from optical to gamma-ray wavelengths, invited talk, Vulcano Workshop 2010 "Frontier Objects in Astrophysics and Particle Physics", Vulcano, Italy, May 2010.

Kanbach, G.: OPTIMA observations of the first optical magnetar SWIFT J1955+26: an update, contributed talk, High Time Resolution Astrophysics IV, Agios Nikolaos, Greece, May 2010.

Kanbach, G.: The History of High-Energy Astrophysics, invited talk, 8th Workshop on Science with the New Generation of High-Energy Gamma-ray Experiments (Sci-NeGHE): Gamma-ray Astrophysics in the Multimessenger context, Trieste, Italy, September 2010.

Khrapak, S.A.: Complex plasmas at high pressures, contributed talk, Ringberg meeting on Complex Plasmas, Ringberg, Germany, October 2010.

Khrapak, S.A.: Melting and freezing of 3D complex plasmas driven by neutral gas pressure manipulation, contributed talk, PK3-Plus Symposium, Garching, Germany, December 2010.

Khrapak, S.A.: Shielding of a charged particle in plasmas, contributed talk, 37th IOP Conference on Plasma Physics, Windermere, UK, March 2010.

Klecker, B.: SOHO Overview, invited talk, Joint ACE / SOHO / STEREO / WIND In-Situ Science Symposium, Kennebunkport, USA, June 2010.

Klecker, B.: Solar Energetic Particles: Session C Workshop Summary, invited talk, Joint ACE / SOHO / STEREO / WIND In-Situ Science Symposium, Kennebunkport, USA, June 2010.

Klecker, B.: Impulsive event cutoffs and dropouts: implications for cross-field diffusion, contributed talk, Joint ACE / SOHO / STEREO / WIND In-Situ Science Symposium, Kennebunkport, USA, June 2010.

Klecker, B.: Candidate time periods for propagation studies with STEREO-A/B, ACE, Wind, and SOHO, contributed talk, SEPT Project Meeting, University Kiel, Kiel, July 2010.

Knappek, C.A.: PlasmaLab - Zyflex Chamber: First Results of the Parabolic Flights, contributed talk, PK-3 Plus Symposium 2010, Garching, Germany, December 2010.

Komossa, S.: Observations of Massive Black Hole Binaries, invited talk, LISA Massive Black Hole Binaries in the Cosmic Landscape, Zurich, Switzerland, February 2010.

Komossa, S.: Scaling Relations and Recoiling Black Holes, invited talk, Cosmogony of AGN, Brindisi, Italy, September 2010.

- Komossa, S.: AGN, Mergers, and BH Recoils: Electromagnetic Signals, invited talk, Astro-GR, Paris, France, September 2010.
- Komossa, S.: Black Holes at the centers of galaxies: Singles, Binaries, and Escapees, colloquium, ASTRON, Dwingeloo, The Netherlands, November 2010.
- Komossa, S.: Chandra, NTT and Spitzer follow-ups of the peculiar transient SDSSJ0952+2143, invited talk, Frontier Objects in Astrophysics and Particle Physics, Vulcano, Italy, May 2010.
- Komossa, S.: Compact Supermassive Black Hole Binaries and Recoiling Black Holes, invited talk, Probing Strong Gravity near Black Holes, Prague, Czech Republic, February 2010.
- Komossa, S.: Galaxy Mergers and Recoils: Astrophysical Implications and Electromagnetic Signatures, invited talk, 8th International LISA Symposium, Stanford, USA, July 2010.
- Komossa, S.: Massive Black Holes in Galaxies: Singles, Binaries, and Escapees, colloquium, ATNF, Sydney, Australia, April 2010.
- Komossa, S.: Mergers, Recoiling Black Holes and Active Galactic Nuclei, invited talk, HEAD 2010, Kona, USA, March 2010.
- Komossa, S.: Observations of Binary Black Holes and Recoiling Black Holes, and Astrophysical Implications, invited talk, 460th WE Heraeus Seminar on Black Holes, Bad Honnef, Germany, June 2010.
- Komossa, S.: Recoiling Black Holes, contributed talk, Accretion and Outflow of Black Hole Systems, Kathmandu, Nepal, October 2010.
- Komossa, S.: Supermassive Black Holes in Galaxies: Singles, Binaries, and Escapees, colloquium, Physics colloquium, University of Sydney, Sydney, Australia, March 2010.
- Komossa, S.: The Astrophysics of Supermassive Binary Black Holes, invited talk, Multimessenger Emission from Sources of Gravitational Waves, Maresias, Brazil, December 2010.
- Komossa, S.: Tidal Disruption Events, invited talk, GRAVITAS Workshop, Garching, Germany, October 2010.
- Komossa, S.: Unusual Transients in the Optical and X-ray Sky, invited talk, University of Sydney, Institute for Astronomy, Sydney, Australia, April 2010.
- Konopka, U.: Complex Plasmas - An Interdisciplinary Research Field, invited talk, University of Boulder, Boulder, CO, USA, March 2010.
- Konopka, U.: Complex Plasmas - From the Laboratory to Experiments on the International Space Station, colloquium, University of Boulder, Boulder, CO, USA, March 2010.
- Konopka, U.: Frontiers of Complex Plasmas - High magnetic fields and PlasmaLab, invited talk, Institute for material science in space, German Aerospace Center (DLR), Cologne, Germany, November 2010.
- Konopka, U.: PlasmaLab, contributed talk, PKE-Symposium, Garching, Germany, December 2010.
- Kretschmer, K.: Hot ISM in the inner Galaxy traced with 26Al gamma rays, contributed talk, Annual Meeting of the Astronomische Gesellschaft, Bonn, Germany, September 2010.
- Kurk, J.: LUCIFER, contributed talk, Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution, Ringberg Castle, Germany, May 17 2010.
- Li, Y.-F.: A new design of dielectric barrier discharge for self surface sterilization, contributed talk, 63rd Annual Gaseous Electronics Conference and 7th International Conference on Reactive Plasmas, Paris, France, October 2010.
- Li, Y.-F.: Bacterial experiments with PCB and SSS, contributed talk, GREMI-MPE meeting, Orléans, France, May 2010.
- Li, Y.-F.: Characterization of surface micro-discharge I: Optimization of the electrode, contributed talk, Plasma Medicine Workshop, Ringberg Castle, Germany, October 2010.
- Li, Y.-F.: Dust Removal from Processing Plasmas by a Traveling Plasma Modulation, contributed talk, Progress In Electromagnetics Research Symposium, Xi'an, China, March 2010.
- Lutz, D.: A Herschel view on Galaxy/AGN coevolution, invited talk, Galaxy Evolution: Infrared to Millimeter Wave Perspective, Guilin, China, October 2010.
- Lutz, D.: A Herschel view on star formation in high redshift AGN hosts, invited talk, Massive Galaxies over Cosmic Time 3, Tucson, USA, November 2010.
- Lutz, D.: AGN - host coevolution - the Herschel view, invited talk, IRX 2010, Holmbury St. Mary, UK, July 2010.
- Lutz, D.: An infrared view on star formation in high redshift AGN hosts, invited talk, Challenges in Infrared Extragalactic Astrophysics II, Agios Nikolaos, Greece, September 2010.
- Lutz, D.: An infrared view on star formation in high redshift AGN hosts, invited talk, What drives the growth of black holes?, Durham, UK, July 2010.
- Lutz, D.: First results from Herschel deep extragalactic surveys, colloquium, Heidelberg astronomical colloquium, Heidelberg, Germany, June 2010.
- Lutz, D.: First results from PACS deep surveys, colloquium, ESLAB 2010, Noordwijk, The Netherlands, May 2010.
- Lutz, D.: First results from deep cosmological surveys with Herschel-PACS, invited talk, COSPAR 2010 Session E14, Bremen, Germany, July 2010.
- Lutz, D.: Galaxy formation from deep surveys with Herschel-PACS, invited talk, 5th Zermatt ISM symposium, Zermatt, Switzerland, September 2010.
- Lutz, D.: High-z star formation - the Herschel view, invited talk, Galaxies in the distant Universe, Ringberg Castle, Germany, May 2010.
- Lutz, D.: Results from Herschel-PACS: Deep Herschel far-infrared extragalactic surveys, invited talk, The Submillimeter Universe: The CCAT view, Ithaca, USA, November 2010.

- Müller, T.G.: Asteroid models and SPIRE/PACS results, invited talk, Herschel Calibration Workshop, Villafranca, Spain, December 2010.
- Müller, T.G.: Das Sonnensystem: Unsere astronomische Heimat, public talk, VHS Schweinfurt Nord, Stadtlauringen, Germany, April 2010.
- Müller, T.G.: Franken im Weltall - Grosse und kleine Planeten im Sonnensystem, public talk, Kinderuniversität-Bad Neustadt, Bad Neustadt, Germany, March 2010.
- Müller, T.G.: Solar System minor bodies, invited talk, The impact of Herschel surveys on ALMA Early Science, Munich, Germany, November 2010.
- Müller, T.G.: TNOs are Cool: A Survey of the Transneptunian Region, invited talk, Herschel First Results Symposium (ESLAB 2010), Noordwijk, The Netherlands, May 2010.
- Müller, T.G.: Thermophysical Characterisation of (90482) Orcus and (136472) Makemake from Herschel Observations, contributed talk, TNO 2010 - Dynamical and Physical properties of Trans-Neptunian Objects, Philadelphia, USA, June 2010.
- Müller, T.G.: Thermophysical Modelling of Small Bodies, invited talk, Thermal emission of small bodies, Berlin, Germany, November 2010.
- Magnelli, B.: Early results from the Herschel/PEP survey, colloquium, Laboratoire d'Astrophysique de Marseille, Marseille, France, October 2010 .
- Magnelli, B.: Far-infrared properties of Submm and Optically faint radio galaxies, contributed talk, Challenges in Infrared Extragalactic Astrophysics II, Crete, Greece, September 2010.
- Magnelli, B.: Far-infrared properties of Submm and Optically faint radio galaxies, contributed talk, Herschel First Results Symposium, Noordwijk, The Netherlands, May 2010 .
- Magnelli, B.: Source extraction using 24 μ m priors, contributed talk, CEA Saclay, Saclay, France, June 2010.
- Meidinger, N.: CCD Detector Development for the eROSITA Space Telescope, contributed talk, IEEE Nuclear Science Symposium, Knoxville, USA, November 2010.
- Meidinger, N.: eROSITA, contributed talk, HLL Project Review, Ringberg Castle, Germany, April 2010.
- Merloni, A.: A Synthetic view of SMBH growth: comparing and contrasting theradiative and mechanical sectors, contributed talk: "What drives the growth of Black Holes?", Durham University, UK, July 2010.
- Merloni, A.: AGN feedback in action: constraints on the scaling relations between Black Holes and galaxy at high redshift, contributed talk, COSPAR Meeting 2010, Bremen, Germany, September 2010.
- Merloni, A.: Black Holes, colloquium, Excellence Cluster Universe Science Week, Garching, Germany, October 2010.
- Merloni, A.: Host galaxies of AGN in the COSMOS field: accretion, starformation and scaling relations, contributed talk, Evolution of galaxies, their central black holes and their large-scale environment, Potsdam, Germany, September 2010.
- Merloni, A.: Radiative vs. Kinetic Energy output and AGN evolution, invited talk, Cosmogony of AGN: unifying approaches for the next decade, Brindisi, Italy, September 2010.
- Merloni, A.: Relativistic accretion disc physics with GRAVITAS, contributed talk, GRAVITAS science meeting, Garching, Germany, October 2010.
- Merloni, A.: The impact of supermassive black holes growth for structure formation and cosmology, colloquium, Leiden University, The Netherlands, February 2010.
- Meuris, A.: Development and Characterization of new 256 x 256 Pixel DEPFET Detectors for X-ray Astronomy, contributed talk, IEEE, Knoxville, USA, November 2010.
- Mihatsch, S.: Exploring a Spatio-Temporal Coupled System using Symbolic Representations, contributed talk, 8th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Germany, May 2010.
- Monetti, R.: Bacterial Load and its Relationship with Clinical parameters for Chronic Skin Wounds, invited talk, Plasma Medicine Workshop, Ringberg Castle, Kreuth, Germany, October 2010.
- Monetti, R.: On the Relation between Bacterial Load and Clinical Parameters in Chronic Wounds, contributed talk, 3rd International Conference on Plasma Medicine (ICPM-3), Greifswald, Germany, September 2010.
- Monetti, R.: Recurrence Analysis of Transcription Symbols to Quantify Coupling Between Time Series, invited talk, 8th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, Dresden, Germany, May 2010.
- Morfill, G.: Plasma Health Care – Aims, Constraints, and Progress, invited talk, 37th IOP Annual Conference on Plasma Physics, Windermere, UK, March 2010.
- Morfill, G.: Plasma Health Care – Aims, Constraints, and Progress, invited talk. CPS/NNV spring meeting, Lunteren, The Netherlands, March 2010.
- Morfill, G.: Von der extraterrestrischen Physik zur Plasma-Medizin, invited talk, LMU Physik Modern, München, Germany, May 2010.
- Morfill, G.: Plasma Health Care, invited talk, EPS, Dublin, Ireland, June 2010.
- Morfill, G.: Plasma Health Care – Aims, Constraints and Progress, invited talk, ICOPS 2010, Norfolk, USA, Juni 2010.
- Morfill, G.: Plasmas in Medicine and Hygiene, invited talk, Plasma Gordon Conference (GRC), Colby Sawyer College in New London, NH, USA, July 2010.
- Morfill, G.: Study of Critical Phenomena: Complex Plasmas and Colloidal Suspensions, invited talk, 38th COSPAR Scientific Assembly, Bremen, Germany, July 2010.
- Morfill, Plasma Health Care – Aims, Constraints, and Progress, invited talk, ICPMP3, Greifswald, Germany, September 2010.
- Nandra, K.: Black Hole Astrophysics: Future Perspectives,

- invited talk, SPIE Meeting, San Diego, USA, June 2010
- Nandra, K.: AGN and Galaxy Coevolution, invited talk, Exploring the extreme universe Conference, Leicester, UK, July 2010
- Nandra, K.: The Astrophysics of Black Hole Growth, invited talk, Joint Astronomy Colloquium, Garching, Germany, September 2010
- Nandra, K.: GRAVITAS Science Overview, invited talk, GRAVITAS Workshop, Garching, Germany, October 2010
- Nardini, M.: Alternative views of GRB afterglows, invited talk, GRB 2010 / Dall'eV al TeV tutti i colori dei GRB, Cefalù, Italy, June 2010.
- Nasiroglu, I.: Very Fast Photometric Observations of the Intermediate Polar V2069 Cyg., contributed talk, High Time Resolution Astrophysics (HTRA) IV - The Era of Extremely Large Telescopes, Agios Nikolaos, Crete, Greece, May 2010.
- Nasiroglu, I.: Very fast photometric observations of the intermediate polar V2069 Cyg., contributed talk, HTRA IV - The Era of Extremely Large Telescopes, Agios Nikolaos, Crete, Greece, May 2010.
- Nosenko, V.: Current state of complex plasmas with examples from 2D, invited talk, International Advanced Workshop on the Frontiers of Plasma Physics, Trieste, Italy, July 2010.
- Nosenko, V.: Melting scenario for two-dimensional plasma crystals, contributed talk, 63rd Gaseous Electronics Conference, Paris, France, October 2010.
- Paschmann, G.: Cluster: from conception to 10th birthday, invited talk, 10th Cluster Anniversary Workshop, Corfu, Greece, September 2010.
- Pierini, D.: Observing the link between halo assembly and galaxy evolution, colloquium, Department of Astronomy, University of Bologna, Italy, Bologna, Italy, June 2010.
- Pietsch, W.: The X-ray source population of M31 and M33, contributed talk, XMM SSC Consortium Meeting, Santander, Spain, November 2010.
- Pietsch, W.: X-ray source population of M 31 and M 33, contributed talk, High Energy View of Accreting Objects: AGN and X-ray Binaries, Agios Nikolaos, Greece, October 2010.
- Poglitsch, A.: The Herschel Photodetector Array Camera and Spectrometer, invited talk, Herschel First Results Symposium, Noordwijk, The Netherlands, May 2010.
- Poglitsch, A.: The Herschel photodetector array camera and spectrometer (PACS): design and in-flight operation and scientific performance, contributed talk, SPIE Astronomical Instrumentation, San Diego, USA, June 2010.
- Poglitsch, A.: The Photodetector Array Camera & Spectrometer, invited talk, Herschel First Results Symposium (ESLAB 2010), Noordwijk, The Netherlands, May 2010.
- Poglitsch, A.: The Photodetector Camera and Spectrometer (PACS) for the Herschel Space Observatory, invited talk, COSPAR 2010, Bremen, Germany, July 2010.
- Popesso, P.: The effect of environment on star forming galaxies at redshift 1 - First insight from PACS, contributed talk, Evolution of galaxies, their central black holes and their large-scale environment, Potsdam, Germany, September 2010.
- Popesso, P.: The effect of environment on star forming galaxies at redshift 1 - First insight from PACS, contributed talk, Herschel First Results Symposium (aka ESLAB 2010), ESTEC, Noordwijk, The Netherlands, May 2010.
- Porro, M.: DEPFET Sensor with Signal Compression: a Large Format X-ray Imager with Mega-Frame Readout Capability for the European XFEL, contributed talk, Pixel 2010 International Workshop on Semiconductor Pixel Detectors for Particles and Imaging, Grindelwald, Switzerland, September 2010.
- Predehl, P.: Surveying the Sky with eROSITA, invited talk, Exploring the extreme Universe, Leicester, UK, July 2010.
- Predehl, P.: eROSITA - A new X-ray All-sky Survey and Clusters of Galaxies, invited talk, Galaxy Clusters, Garching, Germany, July 2010.
- Predehl, P.: eROSITA - A new X-ray All-sky Survey, invited talk, Experimental High Energy Astrophysics - Challenges for the new decade, Tübingen, Germany, July 2010.
- Predehl, P.: eROSITA, colloquium, ESAC, Villafranca, Spain, November 2010.
- Predehl, P.: eROSITA, colloquium, Observatoire Astronomique de Strasbourg, Strasbourg, France, May 2010.
- Predehl, P.: eROSITA, colloquium, Universität Erlangen, Erlangen, Germany, January 2010.
- Predehl, P.: eROSITA, invited talk, 4. Deutsch-Russische Raumfahrtkonferenz, Bonn, Germany, June 2010.
- Predehl, P.: eROSITA, invited talk, AG-Tagung, Bonn, Germany, September 2010.
- Predehl, P.P.: eROSITA - A new X-ray All-sky Survey, invited talk, WEH Seminar "Black Holes", Bad Honnef, Germany, June 2010.
- Prinz, T.: Timing X-ray Pulsars with Application to Spacecraft Navigation, contributed talk, Joined Bonn-Munich Pulsar Meeting, Garching, Germany, December 2010.
- Pustyl'nik, M.: Disturbance to steady state RF discharge driven by a high voltage pulse, contributed talk, University of Orleans, Orleans, France, April 2010.
- Pustyl'nik, M.: Perturbation of a capacitively coupled RF discharge by a high-voltage nanosecond pulse, invited talk, Russian Conference on Modern Plasma Diagnostic Methods and their Applications, Moscow, Russia, December 2010.
- Raab, W.: Development of a large scale stressed Ge:Ga detector array for SAFARI, contributed talk, SPIE Conference on Astronomical Instrumentation, San Diego, USA, June 2010.
- Raeth, C.: A model-independent test for scale-dependent non-Gaussianities in the CMB, contributed talk, Rencontres de Moriond 2010 - Cosmology, La Thuile, Italy, March 2010.
- Raeth, C.: Das beschleunigte Universum: Dunkle Energie und kosmische Inflation, public talk, Astronomische Vereinigung Augsburg, Augsburg, Germany, January 2010.

- Raeth, C.: Hunting the 'non-dog': Identifying signatures for scale-dependent non-Gaussianities in astrophysical and medical images, invited talk, Scripps Institute, La Jolla, USA, February 2010.
- Raeth, C.: On the usefulness and necessity of calculating higher order statistics, invited talk, Complex Plasma Workshop, Schloss Ringberg, Germany, October 2010.
- Raeth, C.: Quantitative characterization of complex bone structures using nonlinear methods and FEM, invited talk, Osteoporosis Workshop, University of Vienna, Vienna, Austria, November 2010.
- Raeth, C.: Quantitative characterization of complex structures and their evolution using nonlinear methods, invited talk, MPE-TUM-DLR Osteoporosis Meeting, Garching, Germany, April 2010.
- Raeth, C.: Scaling relations between bone volume and bone structure as found using 3D μ CT images of the trabecular bone taken from different skeletal sites, colloquium, Institut für Roentgendiagnostik, Technische Universität München, Munich, Germany, February 2010 .
- Raeth, C.: Scaling relations between bone volume and bone structure as found using 3D μ CT images of the trabecular bone taken from different skeletal sites, contributed talk, SPIE conference on Medical Imaging, San Diego, USA, February 2010 .
- Rau, A.: An extremely metal poor damped Ly- α system revealed by GRB 090926A, contributed talk, GDRE meeting "Exploring the dawn of the Universe with Gamma-Ray Bursts", Garching, Germany, January 2010.
- Rau, A.: Gamma-ray Bursts - The brightest Explosions in the Universe, invited talk, 3rd Sino-German Science Symposium, Qingdao, China, May 2010.
- Rau, A.: Spectroscopic Confirmation of the 5.4min Orbital Period in HM Cnc, contributed talk, COSPAR10, Bremen, Germany, July 2010.
- Rau, A.: Spectroscopic Confirmation of the 5.4min Orbital Period in RXJ0806+15 (HM Cancr), contributed talk, HTRA-IV, Agios Nikolaos, Greece, May 2010.
- Rau, A.: Stars in the Fast Lane - The 5.4min Orbital Period of HM CnC, contributed talk, Annual Meeting of the German Astronomical Society, Bonn, Germany, September 2010.
- Rau, A.: The Transient Sky, invited talk, TEXAS 2010, Heidelberg, Germany, December 2010.
- Rossmann, G.: Probing scale dependent non-Gaussianities using Surrogates, contributed talk, Workshop on Low-/Large Angle Cosmology, Case Western Reserve University, Cleveland, Ohio, Cleveland, USA, February 2010.
- Sütterlin, K.R.: Highly dissipative shear flow instability at the interface of a two-stream complex plasma, contributed talk, 11th Workshop on Fine Particle Plasmas, National Institute for Fusion Science, Toki, Japan, November 2010.
- Sütterlin, K.R.: Non-equilibrium Phase Transitions in Binary Complex Plasmas, invited talk, EPS2010 European Physical Society 37th Conference on Plasma Physics, Dublin, Ireland, June 2010.
- Sütterlin, K.R.: Physics of Complex Plasmas, invited talk, Kyushu University, Fukuoka, Japan, November 2010.
- Schartmann, M.: Evolution from nuclear starbursts to disks and tori in Active Galactic Nuclei, contributed talk, Central Massive Objects, ESO, Garching, Germany, June 2010.
- Schartmann, M.: Evolution from nuclear starbursts to disks and tori in Active Galactic Nuclei, contributed talk, What drives the growth of black holes?, Durham, UK, July 2010.
- Schartmann, M.: The interstellar medium in galactic nuclei: from starbursts to AGN tori, contributed talk, Annual Meeting of the Astronomische Gesellschaft, Bonn, Germany, September 2010.
- Scholer, M., et al: Microstructure of the heliospheric termination shock: Full particle electromagnetic simulations, contributed talk, AGU Fall Meeting, San Francisco, USA, December 2010.
- Schwabe, M.: Bubbles, Blobs, and Surface Cusps in Complex Plasmas, contributed talk, 37th EPS Conference on Plasma Physics, Dublin, Ireland, June 2010.
- Schwabe, M.: Komplexe Plasmaphysik mit dem PK-3 Plus Labor auf der Internationalen Raumstation, contributed talk, 14. Deutsche Physikerinnentagung, Munich, Germany, November 2010.
- Schwabe, M.: The Future of PK-3 Plus, contributed talk, PK-3 Plus Symposium, Garching, Germany, December 2010.
- Schwabe, M.: Thermal creep flux in a complex plasma, contributed talk, GEC & ICRP 2010, Paris, France, October 2010.
- Schwabe, M.: Thermal creep in a complex plasma, contributed talk, PK-3 Plus Symposium, Garching, Germany, December 2010.
- Schweitzer, M.: NIP: the near-infrared imaging photometer for Euclid, contributed talk, SPIE Astronomical Instrumentation, San Diego, USA, June 2010.
- Shao, L.: Star formation in AGN hosts in GOODS-N, contributed talk, Galaxy Evolution: Infrared to Millimeter Wave Perspective, Guilin, China, October 2010.
- Shimizu, S.: Diamond fine particle growth in an rf plasma chamber equipped with a hot filament, invited talk, 11th Workshop on Fine Particle Plasmas, Toki, Japan, November 2010.
- Sidorenko, I.: Scaling Index Method as novel technique for assessment of local topology, contributed talk, SKY-SCAN User Meeting 2010, Mechelen, Belgium, April 21-31, 2010.
- Strong, A.: Interstellar gamma rays: new insights from Fermi, invited talk, COSPAR General Assembly, Session E110, Bremen, Germany, July 2010.
- Strong, A.: The cosmic-ray, gamma-ray, synchrotron, magnetic field connection in the Galaxy, with new insights from Fermi, contributed talk, Infrared, Interstellar Medium and Star Formation Workshop, Heidelberg, Germany, February 2010.
- Strüder, L.: CAMP first results - imaging spectroscopy with

- pnCCDs, SDDs and DePFETs, invited talk, PSI, Villingen, Switzerland, January 2010.
- Strüder, L.: Detectors for Imaging, Timing and Spectroscopy - in Heaven and on Earth, invited talk, Marshall Space Flight Center, Huntsville, USA, August 2010.
- Strüder, L.: Detectors for the experiments at FLASH, LCLS, SCSS and XFEL - The fine art of high speed X-ray imaging, invited talk, TUM, Garching, Germany, October 2010.
- Strüder, L.: Eine neue Generation von Röntgendetektoren - vom stickstofffreien Silizium Drift Detektor zur Röntgenfarbkamera, colloquium, WISTA, Berlin, Germany, October 2010.
- Strüder, L.: Erste Streuexperimente am Röntgen FEL in Stanford, colloquium, Universität Siegen, Siegen, Germany, June 2010.
- Strüder, L.: First X-ray imaging experiments at the Linac coherent light source at SLAC, invited talk, SORMA 2010, Ann Arbor, USA, May 2010.
- Strüder, L.: Forschung und Entwicklung am MPI Halbleiterlabor, colloquium, MPA-MPE Kuratoriumssitzung, Garching, Germany, March 2010.
- Strüder, L.: GRAVITAS - High Speed X-ray Imaging Systems with Microsecond Time Resolution, contributed talk, 1st GRAVITAS Science Meeting, Garching, Germany, October 2010.
- Strüder, L.: Going to the Limit, public talk, Politecnico di Milano, Milano, Italy, November 2010.
- Strüder, L.: Nanometer resolution on a Femtosecond scale, invited talk, IEEE, Knoxville, USA, November 2010.
- Strüder, L.: Nanometer resolution on a femtosecond scale, contributed talk, IMC17, Rio de Janeiro, Brazil, September 2010.
- Strüder, L.: Nanometer resolution on a femtosecond scale, contributed talk, M & M, Portland, USA, August 2010.
- Strüder, L.: Nanometer resolution on a femtosecond scale, invited talk, EXRS, Figuero da Roz, Portugal, June 2010.
- Strüder, L.: Research and Development at the MPI semiconductor Laboratory, contributed talk, MPE Fachbeirat, Garching, Germany, June 2010.
- Strüder, L.: SDDs and CCDs - Remembering Pavel Rehak, contributed talk, Brookhaven National Laboratory, Upton, USA, November 2010.
- Strüder, L.: SDDs, pnCCDs and active pixel detectors in imaging XRF applications, invited talk, IAEA, Vienna, Austria, November 2010.
- Strüder, L.: Semiconductor radiation Detectors - in Heaven and on Earth, colloquium, Universität Hamburg, Hamburg, Germany, October 2010.
- Strüder, L.: The IXO Wide Field Imager, contributed talk, SPIE, San Diego, USA, July 2010.
- Strüder, L.: Tracking and Imaging Detectors - in Heaven and on Earth, invited talk, DESY, Hamburg, Germany, February 2010.
- Strüder, L.: WFI on IXO, contributed talk, MTR ESTEC, Noordwijk, The Netherlands, July 2010.
- Strüder, L.: What next? eRosita, IXO, Gravitas,..., invited talk, IAA Tübingen, Tübingen, Germany, July 2010.
- Strüder, L.: XMM-Newton, Ten Years After, invited talk, ESOC, Darmstadt, Germany, January 2010.
- Sturm, E.: (Mid- and) far-infrared spectroscopic diagnostics of local and distant AGNs, invited talk, Challenges in IR Extragalactic Astrophysics II, Agios Nikolaos, Crete, Greece, September 2010.
- Sturm, E.: First Results with Herschel-PACS, invited talk, 215th Meeting of the American Astronomical Society, Washington, USA, January 2010.
- Sturm, E.: Infrarotastronomie mit Europas neuem Welt- raumteleskop Herschel, public talk, Gymnasium Markt Indersdorf, Markt Indersdorf, Germany, June 2010.
- Sturm, E.: Infrarotastronomie mit Europas neuem Welt- raumteleskop Herschel, public talk, Ignaz-Taschner-Gym- nasium, Dachau, Germany, July 2010.
- Sturm, E.: Spitzer's Mid-Infrared View on Dusty Galaxy Evolution & First results from the Herschel Space Obser- vatory, colloquium, CfA Colloquium, Cambridge, USA, January 2010.
- Sturm, E.: Star Formation and the ISM in Infrared Bright Galaxies - SHINING, invited talk, The 5th Zermatt ISM- Symposium - Conditions and impact of star formation: New results with Herschel and beyond, Zermatt, Switzer- land, September 2010.
- Sturm, E.: The Herschel Space Telescope - Europe's new window into the infrared Universe, colloquium, Mu- nich Joint Astronomy Colloquium, Munich, Germany, April 2010.
- Sturm, E.: The ISM in IR Bright Galaxies - Initial Results from SHINING, contributed talk, Herschel First Results Symposium (ESLAB2010), ESA ESTEC, Noordwijk, The Netherlands, May 2010.
- Sturm, E.: Das Weltraumteleskop Herschel - Europas neues Fenster ins All, public talk, Volkshochschule im Norden des Landkreises München, Garching, Germany, February 2010.
- Sturm, R.: The XMM-Newton survey of the Small Magella- nic Cloud: First results, contributed talk, Annual Meeting of the Astronomische Gesellschaft: Zooming in: The Cosmos at High Resolution, Bonn, Germany, September 2010.
- Tacconi, L.J.: The ALMA Impact on Extragalactic Science: ISM and Galaxy Evolution, invited talk, Nordic Baltic Sum- mer School in mm/Optical/NIR Astronomy: Extragalactic Astronomy in the ALMA Era, Onsala, Sweden, June 2010.
- Tacconi, L.J.: Gas Dynamics, Galaxy Assembly and Star Formation in the Early Universe, colloquium, Astronomy Department, University of Maryland, College Park, Mary- land, USA, November 2010.
- Tacconi, L.J.: Gas Dynamics, Galaxy Assembly and Star Formation in the Early Universe, colloquium, Sackler Lec- ture, Leiden University, Leiden, The Netherlands, October 2010.
- Tacconi, L.J.: Gas Dynamics, Galaxy Assembly and Star

- Formation in the Early Universe, invited talk, Plenary Lecture, Danish Physical Society Annual Meeting, Nyborg, Denmark, June 2010.
- Tacconi, L.J.: High Gas Fractions & the K-S Relation for Star Forming Galaxies from $z \sim 1-3$, contributed talk, Massive Galaxies over Cosmic Time III, Tucson, Arizona, USA, November 2010.
- Tacconi, L.J.: High Gas Fractions in Star Forming Galaxies at $z=1-3$, invited talk, From Stars to Galaxies: Connecting Our Understanding of Star and Galaxy Formation, Gainesville, Florida, USA, April 2010.
- Tacconi, L.J.: In Situ Observations of Forming Galaxies in the Early Universe: the Cold Gas Component, invited talk, Danish Women in Physics Annual Meeting, Nyborg, Denmark, June 2010.
- Tacconi, L.J.: Molecular Gas in Star Forming Galaxies at $z=1-3$, invited talk, Ringberg Workshop on Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution, Ringberg Castle, Germany, May 2010.
- Tacconi, L.J.: Molecular Gas in Star Forming Galaxies at $z=1-3$, invited talk, Santa Cruz Galaxy Evolution Workshop 2010, Santa Cruz, California, USA, August 2010.
- Tacconi, L.J.: The ALMA Impact on Extragalactic Science, invited talk, PhD Student Lunch Seminar, Leiden Observatory, Leiden University, Leiden, The Netherlands, October 2010.
- Tacconi, L.J.: The ALMA Impact on Galaxy Formation and Evolution, invited talk, The Impact of Herschel surveys on ALMA Early Science, ESO, Garching, Germany, November 2010.
- Tacconi, L.J.: The High Redshift Galaxy Zoo, invited talk, Nordic Baltic Summer School in mm/Optical/NIR Astronomy: Extragalactic Astronomy in the ALMA Era, Onsala, Sweden, June 2010.
- Tacconi, L.J.: Two Modes of Star Formation in Galaxies: Evidence from Millimeter and FIR Spectroscopy, colloquium, Leiden Observatory, Leiden, The Netherlands, October 2010.
- Thoma, M.H.: Quantum Field Theoretic Description of Electron-Positron Plasmas, invited talk, EMMI workshop "Particle dynamics under extreme matter conditions", Speyer, Germany, September 2010.
- Thoma, M.H.: Extreme Materie in der Kern-, Astro- und Plasmaphysik, colloquium, Universität Giessen, Giessen, Germany, June 2010.
- Thomas, H.M.: Experimental Research on Complex Plasmas - From Laboratory to Space, colloquium, DLR-Institut für Materialphysik im Weltraum, Cologne, Germany, April 2010.
- Thomas, H.M.: Agglomeration of Microparticles in a Complex Plasma, invited talk, EPS 2010, Dublin, Ireland, June 2010.
- Trümper, J.: Isolated Neutron Stars, invited talk, HTRA-IV Workshop, Agios Nikolaos, Greece, May 2010.
- Trümper, J.: Looking back at ROSAT - Twenty Years after Launch, invited talk, Exploring the Extreme Universe Symposium, Leicester, UK, July 2010.
- Trümper, J.: Observations of Neutron Stars and the Equation of State at High Densities, invited talk, Workshop on Particle and Nuclear Astrophysics, Erice, Italy, September 2010.
- Trümper, J.: The History of Imaging X-Ray Astronomy in Germany, invited talk, Workshop Experimental High Energy Astrophysics - Challenges for the new Decade, Tübingen, Germany, July 2010.
- Trümper, J.: The Quiescent Emission of AXPs and SGRs, invited talk, ASTRONS Workshop, Cesme, Turkey, August 2010.
- Trümper, J.: The Quiescent Emission of AXPs and SGRs, invited talk, Workshop Experimental High Energy Astrophysics - Challenges for the New Decade, IAAT Tübingen, Tübingen, Germany, July 2010.
- Trümper, J.: The Quiescent X-ray Emission of AXPs and SGRs, invited talk, University of Crete, Agios Nikolaos, Greece, October 2010.
- Trümper, J.: To what extent are Magnetars really Magnetars, invited talk, Pulsar Meeting MPIfR-MPE, Garching, Germany, December 2010.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, Astronomy department, University of Michigan, Ann Arbor, USA, May 2010.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, Caltech, Pasadena, USA, June 2010.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, European Southern Observatory, Garching, Germany, October 2010.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, colloquium, University of Chile, Santiago, Chile, November 2010.
- van Dishoeck, E.F.: A WISH come true: water in star-forming regions with Herschel, invited talk, Astronomische Gesellschaft Annual Meeting, Bonn, Germany, September 2010.
- van Dishoeck, E.F.: From molecules to planets, colloquium, Star and planet formation center, Copenhagen, Denmark, May 2010.
- van Dishoeck, E.F.: From protostars to protoplanets: synergy of IR and mm, colloquium, European Southern Observatory, Santiago, Chile, April 2010.
- van Dishoeck, E.F.: Gas-phase astrochemistry, invited talk, Astrochemistry meeting, Utrecht, The Netherlands, September 2010.
- van Dishoeck, E.F.: Herschel science and beyond, invited talk, 5th Zermatt ISM symposium: conditions and impact of star formation, Zermatt, Switzerland, September 2010.
- van Dishoeck, E.F.: Herschel spectroscopy of the earliest phases of star formation, invited talk, Herschel and the formation of stars and planetary systems, Göteborg, Sweden, September 2010.
- van Dishoeck, E.F.: Molecular processes between the

- stars, invited talk, European conference on atomic and molecular physics (ECAMP10), Salamanca, Spain, July 2010.
- van Dishoeck, E.F.: Molecules in star- and planet-forming regions: from ice cold to steaming hot, colloquium, ETH, Zurich, Switzerland, April 2010.
- van Dishoeck, E.F.: Molecules in star- and planet-forming regions: from ice cold to steaming hot, colloquium, Institute for Astronomy, Cambridge, UK, January 2010.
- van Dishoeck, E.F.: Overview of protoplanetary disk modeling, invited talk, Dust, gas and ice in time meeting, Austin, USA, November 2010.
- van Dishoeck, E.F.: Protostars with MIRI, contributed talk, JWST-MIRI science meeting, Ringberg Castle, Germany, October 2010.
- van Dishoeck, E.F.: Science with ALMA: zooming into the nurseries of galaxies, stars and planets, invited talk, SPIE astronomical telescopes and instrumentation, San Diego, USA, June 2010.
- van Dishoeck, E.F.: Water in star-forming regions with Herschel (WISH), invited talk, Herschel first results symposium, ESTEC, Noordwijk, The Netherlands, May 2010.
- van Dishoeck, E.F.: Water observations with Herschel, invited talk, Chemical cosmos annual conference, Grenoble, France, October 2010.
- van Dishoeck, E.F.: Zooming into the mask: star formation in nearby molecular clouds, invited talk, Galaxies and their masks, Sossusvlei, Namibia, April 2010.
- von Kienlin, A.: Overview of the prompt emission as seen with Fermi-GBM/LAT, contributed talk, GDRE meeting "Exploring the dawn of the Universe with Gamma-Ray Bursts", Garching, Germany, January 2010.
- von Kienlin, A.: AXPs and SGRs: A Review in the FERMI Era, invited talk, Frontier Objects in Astrophysics and Particle Physics, Vulcano, Italy, May 2010.
- von Kienlin, A.: Fermi Gamma-ray Space Telescope: Science Highlights, invited talk, Experimental High Energy Astrophysics - Challenges for the new Decade, Tübingen, Germany, July 2010.
- von Kienlin, A.: The Fermi Gamma-ray Burst Monitor: Results from the first two years, contributed talk, 8th INTEGRAL Science Workshop, Dublin, Ireland, September 2010.
- Wilman, D.: The Origin of the Morphology-Density Relation, invited talk, McMaster University, Hamilton, Canada, August 2010.
- Wilman, D.: The Origin of the Morphology-density relation, contributed talk, CL J2010: from Massive Galaxy Formation to Dark Energy: an IPMU/DENET international conference on galaxy clusters, Kashiwa, Tokyo, Japan, June-July 2010.
- Wilman, D.J.: The Origin of the Morphology-density relation, contributed talk, Environment and the Formation of Galaxies: 30 years later at the Joint European and National Astronomy Meeting (JENAM), Lisbon, Portugal, September 2010.
- Yaroshenko, V.V.: Effect of highly charged microparticles on the electrical structure of plasma discharges, contributed talk, 37th EPS Conference, Dublin, Ireland, June 2010.
- Yaroshenko, V.V.: Potential profile in the discharge plasmas loaded with charged contaminations, contributed talk, 24th Symposium on Plasma Physics and Technology, Prague, Czech Republic, June, 2010.
- Zhdanov, S.: "One-plus" correlation length, contributed talk, PK-3 Plus Symposium 2010, Garching, Germany, December 2010.
- Ziaeeppour, H.: Coherent states at cosmological distances: Making a dark energy, contributed talk, Quantum Coherence and Decoherence, Benasque, Spain, September 2010.
- Ziaeeppour, H.: Equation of State of Dark Energy, contributed talk, HETDEX science meeting, College Station, USA, October 2010.

PhD Theses

- Brandt, P.C.: Phasenübergänge in komplexen Systemen mit anisotropischen Potenzialen. LMU München 2010.
- Dodds-Eden, K.: The Bright Side of the Black Hole: Flares from Sgr A*. LMU München 2010.
- Engel, H.: Major Mergers Between Galaxies - Their Role in the High-Redshift Universe and Two Nearby Cases Studies. LMU München 2010.
- Knappek, C.A.: Phase Transitions in Two-Dimensional Complex Plasmas. LMU München 2010.
- Mitic, S.D.: Physical Processes in Complex Plasma. LMU München 2010.
- Mühlegger, M.L.: Simulated Observations of Galaxy Clusters for Current and Future X-ray Surveys. TU München 2010.
- Sütterlin, R.: Physics of Complex Plasmas: Some fundamental problems. LMU München 2010.
- Stiele, H.: X-ray Source Population Study of the Local Group Galaxy M 31. LMU München 2010.

Diploma Theses

- Fritz, T.K.: Astrometrie von IRS13E. LMU München 2009.
- Klein, F.: Supermassereiche schwarze Löcher in elliptischen Riesengalaxien. LMU München 2010.
- Obermeier, C.: Habitable extrasolare Planete um Zwergsterne (Bachelorarbeit). LMU München 2010.
- Prinz, T.: Zeitanalyse der Röntgenemission von Pulsaren und deren spezielle Anwendung für die Navigation von Raumfahrzeugen. LMU München 2010.

Books / Articles in Books

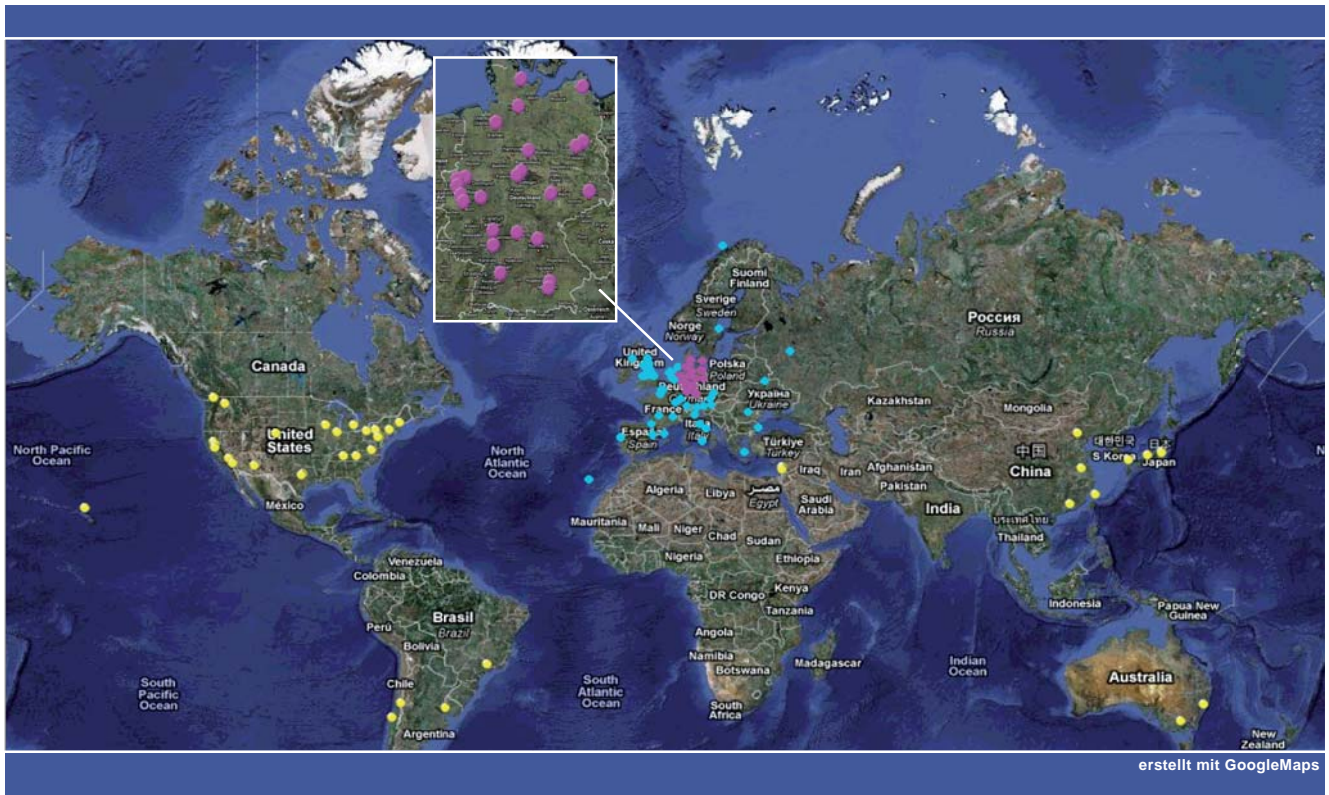
- Kanbach, G., V. Schönfelder and A. Zehnder: High-Energy Astrophysics - Energies above 100 keV. In: "Observing Photons in Space". M.C.E. Huber, A. Pauluhn, J.L. Culhane, J.G. Timothy, K. Wilhelm, A. Zehnder (Eds.). ISSI Scientific Reports Series, ESA/ISSI, 57-71 (2010).
- Schönfelder, V. and G. Kanbach: Imaging through Compton Scattering and Pair Creation. In: "Observing Photons in Space". M.C.E. Huber, A. Pauluhn, J.L. Culhane, J.G. Timothy, K. Wilhelm, A. Zehnder (Eds.). ISSI Scientific Reports Series, ESA/ISSI, 207-222 (2010).
- Raab, W.: Semiconductors for low energies: incoherent infrared/sub-millimetre detectors, In: "Observing Photons in Space". M.C.E. Huber, A. Pauluhn, J.L. Culhane, J.G. Timothy, K. Wilhelm, A. Zehnder (Eds.). ISSI Scientific Reports Series, ESA/ISSI, 485-501 (2010).
- Trümper, J.E. (Ed.): Instrument and Methods. Series: Landolt-Börnstein: Numerical Data and Functional Relationships in Science and Technology – New Series, Subvolume 4A; Subseries: Astronomy and Astrophysics. Springer, Berlin, 2010, 500 p.

Popular Scientific Publications

- Davies, R. and R. Genzel: MICADO: The Multi-adaptive Optics Imaging Camera for Deep Observations. *The Messenger* 140, 32-33 (2010).
- Sharples, R., R. Bender, A. Agudo Berbel, R. Bennett, N. Bezawada, N. Bouché, D. Bramall, M. Casali, M. Cirasuolo, P. Clark, M. Cliffe, R. Davies, R. Davies, N. Drory, M. Dubbeldam, A. Fairley, G. Finger, R. Genzel, R. Haefner, A. Hess, P. Jeffers, I. Lewis, D. Montgomery, J. Murray, B. Muschiello, N. Förster Schreiber, J. Pirard, S. Ramsey-Howat, P. Rees, J. Richter, D. Robertson, I. Robson, S. Rolt, R. Saglia, J. Schlichter, M. Tecza, S. Todd, M. Wegner and E. Wiezorrek: Recent Progress on the KMOS Multi-object Integral Field Spectrometer. *The Messenger* 139, 24-27 (2010).
- Gillessen, S.: Eine Nacht im Zentrum der Milchstraße: Den Beobachtern am Very Large Telescope über die Schulter geschaut. *Sterne und Weltraum - Sieben Blicke in den Kosmos: Astronomie in der Max-Planck-Gesellschaft (1), Galaktisches Zentrum* (2010).
- Testi, L. and E. van Dishoeck: Report on the Joint ESO/MPE/MPA/LMU Workshop From Circumstellar Disks to Planetary Systems. *The Messenger* 139, 47-49 (2010).
- Greiner, J.: Das tobende Universum. *Physik Journal* Dezember 2010, 29-34 (2010).
- Neumayer, N., M. Cappellari, P. van der Werf, J. Reunanen, H.-W. Rix, T. de Zeeuw and R. Davies: SINFONI on the Nucleus of Centaurus A. *The Messenger* 139, 36-41 (2010).

Collaborations / Transfer of Know-How

Scientific Collaborations by Country



Argentina

Observatorio Astronomico Felix Aguilar (OFA), Universidad San Juan, and Instituto de Astronomia y Fisica del Espacio (IAFE), CONICET, Buenos Aires: H-alpha Solar Telescope for Argentina (HASTA).

Australia

Australian National University: Galaxienentstehung.

Melbourne University: Astro-Plasmaphysik.

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-Spektrometer SPI.

Brasililia

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 bis zum Gammabereich.

France

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

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

Centre d'Etudes des Environnements Terrestres et Planétaires (CNRS), St Maur des Fossés: FAST-Auroraphysik.

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

IAP Paris: Nukleare Astrophysik.

LAM: EUCLID.

LAOG Grenoble: GRAVITY.

OAMP Marseille: Herschel-PACS.

Observatoire de Meudon: ASTRO-WISE.

Observatoire de Paris / LESIA: GRAVITY; MICADO.

Germany

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

Christian-Albrechts-Universität, Kiel: komplexe Plasmen.

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

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

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

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

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

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.

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

Maier-Leibnitz Laboratorium, Garching: eROSITA.

Max-Planck-Institut für Sonnensystemforschung, Katlenburg-Lindau: Rosetta Lander (ROLAND); Multi-Ionen Plasmatheorie; MIXS auf BepiColombo.

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 die Physik des Lichts, Erlangen: GRAVITY.

Max-Planck-Institut für Radioastronomie, Bonn: ARGOS. Physikalisch-Technische Bundesanstalt Berlin: eROSITA.

PTB Berlin: 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.

Universität Bochum: Komplexe Plasmen; LUCIFER.

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

Universität der Bundeswehr München: Venus Express.

Universität Düsseldorf: komplexe Plasmen.

Universität Erlangen: eROSITA.

Universität Greifswald: Komplexe Plasmen.

Universität Hamburg: eROSITA; OPTIMA (Flarestars)

Universität Heidelberg: IXO; 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: IXO; XFEL.

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

Universitätssternwarte Göttingen: OmegaCAM.

Universität Siegen: Compton Kamera.

Universität Würzburg: AGADE.

Greece

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

Hungary

Konkoly Observatory: Herschel-PACS.

Ireland

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

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; IXO.

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

INAF Arcetri: ARGOS.

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

INAF Padua: Herschel-PACS; OmegaCAM; MICADO.

INAF Roma: 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; IXO CCDs.

Yokohama National University: komplexe Plasmen.

Croatia

Ministry of Science and Technology, Zagreb: CAST.

The Netherlands

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

FOM Institute for Plasma Physics, Rijnhuizen: komplexe Plasmen.

NOVA Leiden: MICADO.

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

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 Physics of Earth, Moscow: Plasmaphysik.

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.

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

Schweden

University Lund/Observatory: OPTIMA.

University Stockholm: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

Spain

Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas: DES.

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

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

Instituto de Ciencias del Espacio: DES.

Institut de Física 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

Switzerland

CERN, Geneva: CAST.

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

Universität Basel: Nukleare Astrophysik.

Taiwan

National Central University, Chungli; PanSTARRS.

Turkey

Bogazici University, Istanbul: CAST.

UK

Belfast, Queen's University: PanSTARRS.

BRUNEL University: IXO.

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; Rosetta Lander (ROLAND).

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

University of Birmingham: INTEGRAL-Spektrometer SPI; XMM-Newton.

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

Ukraine

Main National Observatory, Kiev: RoPACS.

USA

Argonne National Laboratory: DES.

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

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

CfA, Cambridge: IXO WFI; XMM-Newton/Chandra Kalibrierung.

Clemson University: Gamma-Ray Bursts; Nukleare Astrophysik.

Fermilab: 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: IXO WFI.

NOAO: DES.

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

Naval Research Laboratory: komplexe Plasmen.

Ohio State University: DES.

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

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

Pennsylvania State University: HETDEX; IXO WFI; Swift.

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.

University of California, Berkeley, 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: SAMPEX; 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

AGADE: Universität Würzburg, Germany; Skobeltsyn Institute of Nuclear Physics, Russia.

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.

Bepi Colombo: ESA; MPS Katlenburg-Lindau, University of Leicester, UK; University of Helsinki, Finland; CAB in Madrid, Spain.

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 Laborato-

ry, Argonne National Laboratory, USA; University College London, University of Cambridge, University of Edinburgh, University of Portsmouth, University of Sussex, University of Nottingham, UK; Observatorio Nacional, Centro Brasileiro das Pesquisas Físicas, Universidade Federal do Rio, Brasilien; Instituto de Ciencias del Espacio, Institut de Física d'Altes Energies, Centro de Investigaciones Energéticas Medioambientales y Tecnológicas, Spain.

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.

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

FAST - Fast Auroral Snapshot Explorer: SSL-UCB Berkeley, USA; CETP St. Maur, France.

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 zu Köln, European Southern Observatory, Garching, Germany; SIM Lissabon, Portugal; LAOG, Grenoble, Observatoire de Paris / 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.

IXO - International X-ray Observatory: 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.

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, USA; Osservatorio Astrofisico di Arcetri Firenze, 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, Germany; INAF Padova, Italy; NOVA, Federation of Dutch University Astronomy Departments, The Netherlands; LESIA, Paris, France.

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, Germany; Université d'Orléans CNRS, France.

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.

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

Plasma Physics, Astro-Plasmaphysics: International Space Science Institute Bern, Switzerland; Institute Physics of Earth Moscow, Russia; University of Sheffield, UK.

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

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

SPICA-SAFARI: University of Tokyo, 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): Astrophysikalisches 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; University of Leicester, University Birmingham, UK; CNR Mailand-Palermo-Bologna-Frascati, Osservatorio Astronomico Mailand, Italy; Institut für Astronomie und Astrophysik Tübingen, Germany.

Industrial Collaborations

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

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.

ASTEQ GmbH, Kelkheim: Manufacturing of detector arrays of pressed Ge:Ga, and processing of gallium arsenide probes; SAFARI.

Bach Research corp, Boulder, USA: Gratings for Lucifer.

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

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.

Cryovac, Troisdorf: Cryogenic Design for GRAVITY.

Drollinger, Birkenfeld: Gilding of detector parts for FIFI-LS.

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; PACS test optics; SAFARI.

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

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

Kayser-Threde GmbH, München: Main contractor for Herschel-PACS; 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.

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.

PFMA Munich: Mechanical Design for GRAVITY and SAFARI.

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.

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

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

Activities in Transfer of Know-How

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

A) Research cooperations financed by Industry

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, LMUMünchen.

Radiology:

Institut für Röntgendiagnostik, TU München.

Rastersonden-Mikroskopie:

Bayerisches Landeskriminalamt, StZ, München.

Plasmamedicine:

Department of Chemical Engineering, University of Cali-

fornia, Berkeley.

Department of Neuropathology, Technical University Munich.

Institute of Experimental Oncology, Technical University Munich.

Klinik f. 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 California, Berkeley, Department of chemical engineering: 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 2010

Patent zu dünne Strahlungseintrittsfenster, MI 0207-4264-BC-ZE

MPE holds currently 35 patents in total.

