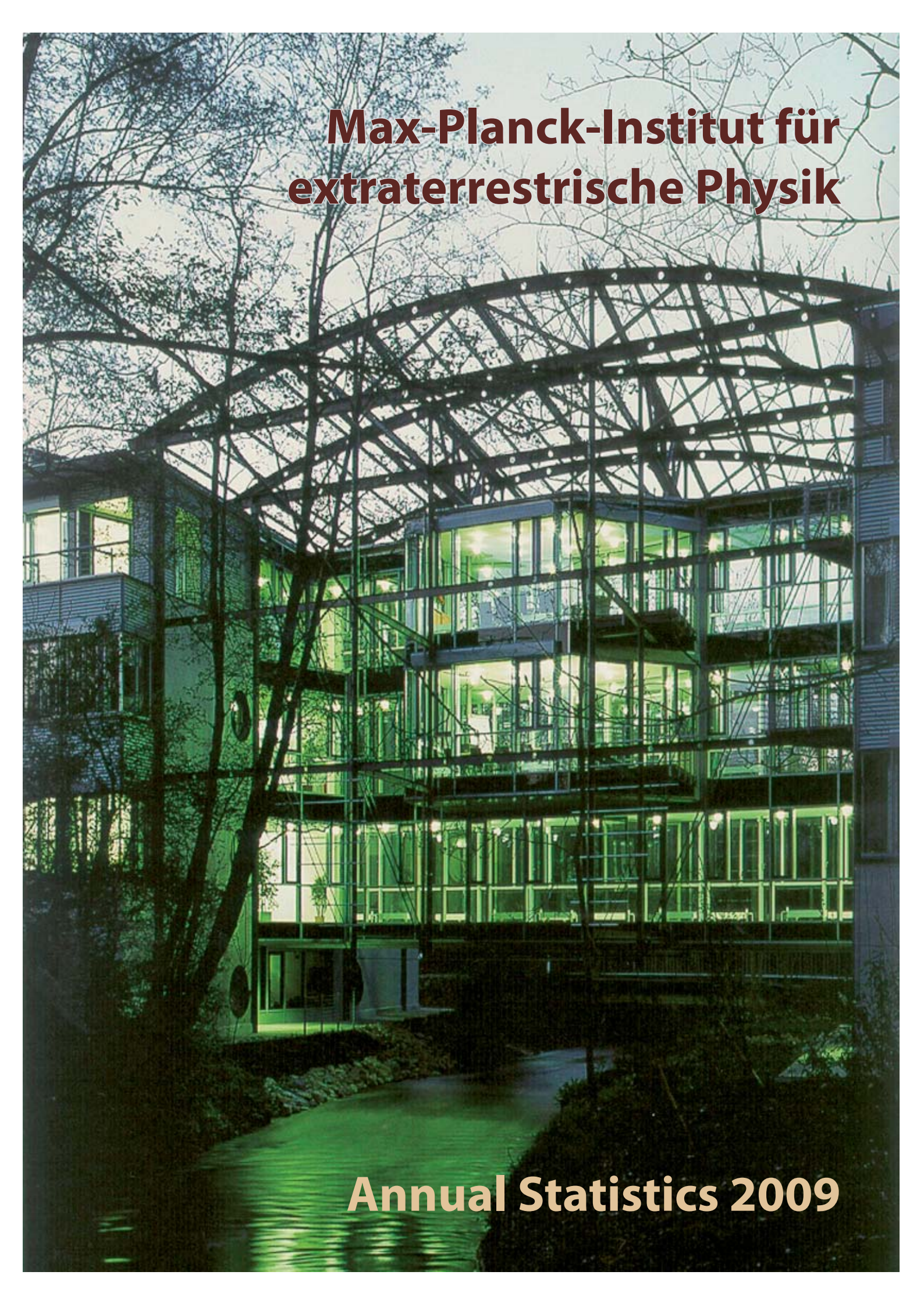




Max-Planck-Institut für extraterrestrische Physik

Annual Statistics 2009

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PERSONNEL 2009

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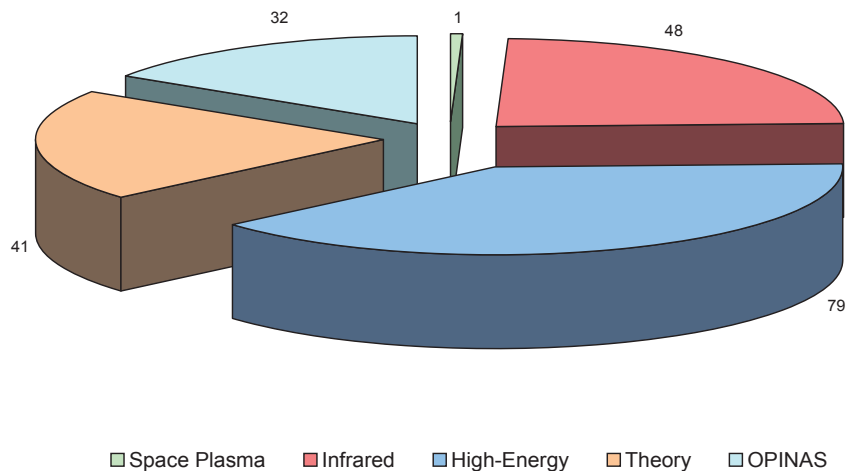
Prof. Dr. D. Jaffe, University of Texas (USA)
 Dr. V. Yaroshenko, Universiteit Gent (Belgium)

Scientific Honours, Appointments

Gaibler, Volker: Golden Spike Award, High Performance Computing Center Stuttgart (HLRS), October, 2009.
 Genzel, Reinhard: Premio Galileo, Fondazione Premio Galileo 2000, Firenze, Italy, October 2009
 Gerhard, Ortwin: President IAU Division VII (2006-2009)
 Gerhard, Ortwin: President IAU Commission 33 (2006-2009)
 Gerhard, Ortwin: Organizing Committee IAU Division VII (2009)

Science Groups

Staff Members by Science Group



Space Physics of the Near-Earth Environment

Klecker, Dr. B. (until 30.11.)

Guests

Blagau, Dr. A. (1.-30.9.); Bunesco, C. (15.5.-19.6.); Comisel, Dr. H. (24.8.-30.9.); Dröge, Dr. W. (1.-30.8.); Kartavykh, Dr. J. (1.-31.8.); Marghitu, Dr. O. (15.5.-19.6.); Stroe, A. (8.6.-10.7.)

Infrared / Submillimeter-Astronomy

Secretary: Harai-Ströbl, S.

Ageorges, Dr. N.; Agudo Berbel, A.; Bartko, Dr. H.; Bauer, Dipl.-Phys. O.; Berta, Dr. S.; Bouché, Dr. N. (until 30.9.); Brown, Dr. J.; Contursi, Dr. A.; Cresci, Dr. G. (until 31.3.); Davies, Dr. R.; Doublier Pritchard, Dr. V.; Eisenhauer, Dr. F.; Fabian, W. (since 9.11.); Feuchtgruber, Dipl.-Phys. H.; Förster Schreiber, Dr. N.; Geis, Dr. N.; Gemperlein, H.; Gillessen, Dr. S.; Gracia Carpio, Dr. J.; Gräter, A.; Hailey-Dunsheath, Dr. S. (since 8.1.); Hartinger, Dr. C. (until 30.4.); Herczeg, Dr. G.; Hicks, Dr. E.; Hofmann, Dr. R.; Kanneganti, Dr. S. (since 15.10.); Katterloher, Dr. R.; Kleiser, A.; Krombach, H.; Kurk, Dr. J. (since 1.7.); Lüst, S. (31.8.-25.9.); Lutz, Dr. D.; Magnelli, Dr. B. (since 19.10.); Müller, Dr. T.; Nordon, Dr. R.; Osterhage, S.; Poglitsch, Dr. A.; Popesso, Dr. P.; Raab, Dr. W.; Rabien, Dr. S.; Saintonge, Dr. A. (since 1.10.); Sturm, Dr. E.; Tacconi, Dr. L.; Trippe, Dr. S. (until 31.1.); Vilenius, Dr. E. (since 1.9.); Wetzstein, Dr. M.; Zanker-Smith, J.

Guests

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PhD / Diploma/Master

Buschkamp, P. (Hofmann); Dodds-Eden, K. (Genzel); Engel, H. (Davies); Exter, K.; Fritz, Dipl. Phys. T. (Gillessen); Genel, S. (Genzel); Karska, A. (since 1.9., van Dishoeck); Lo Faro, B. (until 23.1., Förster Schreiber); Mascetti, L. (until 31.8., Gillessen); Mayer, P. (until 29.5.; Eisenhauer); Orban di Xivry, G. (since 1.9., Rabien); Pfuhl, O. (Eisenhauer); Shao, L. (Lutz)

High-Energy Astrophysics

Secretary: Boller, B.

Team Assistant: Frankenhuizen, W.

Andritschke, Dr. R.; Arend, T. (1.3.-30.9.); Aschauer, F. (until 31.10.); Aschenbach, Dr. B. (until 30.11.); Balestra, Dr. I. (since 1.9.); Becker, Dr. W.; Boller, Prof. Dr. T.; Bongiorno, Dr. A.; Bottacini, Dr. E. (since 1.3.); Bräuninger, Dr. H.; Bribian-Sanchez, B.; Briel, Dr. U. (until 31.7.); Brunner, Dr. H.; Brusa, Dr. M.; Burkert, Dr. W.; Burwitz, Dr. V.; Cappelluti, Dr. N.; Dennerl, Dr. K.; Diehl, Dr. R.; Dittmar, S. (until 31.7.); Elbs, Dr. J.; Eder, Dipl. Ing. J.; Finoguenov, Dr. A.; Freyberg, Dr. M.; Freyberg, A. (3.-14.8.); Friedrich, Dr. P.; Gaida, R. (since 1.4.); Goslich, F. (until 28.2.); Greiner, Dr. J.; Haberl, Dr. F.; Hartner, Dipl.-Math. G.; Hasinger, S.; Hirschinger, M. (until 31.3.); Hofmann, F. (2.6.-31.7.); Hölzl, J. (16.3.-10.4.); Huang, Dipl.-Phys. H.-H.; Irlbeck, A. (since 1.3.); Kanbach, Dr. G.; Kienlin von, Dr. A.; Kimmel, Dr. N.; Kocelch, L. (since 1.9.); Komossa, Dr. S.; Lemson, Dr. G.; Loose, C. (until 28.2.; 1.-30.4.); Lützgendorf, N. (4.5.-31.7.); Martin, Dr. P. (since 1.2.); Meidinger, Dr. N.; Menz, B. (9.2.-30.6.); Meuris, A. (since 15.11.); Miko-va, A. (since 1.2.); Misaki, Dr. K.; Mokler, Dr. F. (31.5.); Müller, A. (2.9.-18.10.); Nöbauer, M. (5.1.-28.2.); Ordavo, I. (since 1.11.); Pfeffermann, Dipl.-Phys. E.; Pietsch, Dr.

W.; Porro, Podigachoski, P. (since 1.9.); Dr. M.; Predehl, Dr. P.; Rau, Dr. A. (since 1.2.); Rehm, D.; Rovilos, Dr. M.; Salamon, R. (6.-10.7.; 8.9.-2.10.); Savaglio, Dr. S.; Schael, A. (since 16.3.); Schaller, G.; Schopper, Dr. F.; Schady, Dr. P. (since 28.9.); Strateva, Dr. I. (until 28.2.); Strong, Dr. A.; Strüder, Prof. Dr. L.; Treis, Dr. J.; Voges, Dr. W.; Vongehr, M.; Voss, Dr. R.; Yoldas, A.; Zhang, Dr. X.-L.; Zöller, A. (until 31.1.)

Guests

Aküz, Prof. A. (01.6.-1.8.); Ajello, Dr. M. (1.-15.5.); Beloborodov, Prof. A. (15./16.12.); Bolzonella, Dr. M. (19.-26.10.); Braitto, Dr. V. (12.-14.7.); Cucciati, O. (19.-24.10.); Forman, Dr. B. (17.-25.11.); Gil, Prof. J. (20.-23.9.); Halluin, Dr. H. (until 30.6.); Hamadache, Dr. C. (1.4.-31.5.); Hartmann, Prof. D. (1.-31.8., 1.-31.10.; 15.-22.12.); Hatzidimitriou, Prof. D. (12.-31.7.); Honglin, Dr. L. (7.1.-7.2.); Iovino, A. (20.-24.10.); Iyudin, Prof. A. (22.11.05.12. und 6.-23.12.); James, Prof. B. (1.-7.11.); Kaduk, F. (16.7.-15.9.); Kniffen, Prof. D. (1.-5.12.); Krumpe, Dr. M. (3.-14.11.); Mazzalay, Dr. X. (since 1.1.); McBreen, Dr. S. (8.-12.12.); McCracken, Dr. H. (2.-4.11.); Mendes, P. (since 1.1.); Mignani, Prof. R. (9.-13.3.); Miyaji, Prof. T. (14.-23.6., 16.11.-03.12.); Nasiroğlu, I. (since 01.01.); Ota, N. (until 31.3.); Porter, Prof. T. (18.-22.5.); Posselt, Dr. B. (6.-11.5.); Salvato, Dr. M. (14.11.-5.12.); Schmid, C. (3.-7.11.); Schwarz, R. (25.11.-5.12.); Sehmer, T. (19.1.-30.9.); Seidel, M. (8.6.-31.7.); Shandera, S. (17.-23.9.); Suades, M. (1.9.-31.12.); Xu, Prof. D. (15.5.-30.6.); Zhou, Dr. H. (until 31.5.)

PhD / Diploma / Master

Afonso, P. (Greiner); Bähr, A. (Strüder); Bernhardt, M.G. (since 18.5., Becker); Bissaldi, E. (v. Kienlin); Burlon, D. (Greiner); Chaudhary, Dipl.-Phys. P. (Hasinger); Clemens, Dipl.-Phys. C. (until 31.3., Greiner); Ebermayer, Dipl.-Phys. St. (Strüder); Fedl, V. (Strüder); Filgas, R. (Greiner); Fürmetz, Dipl.-Phys. M. (Predehl); Gruber, D. (since 1.9., Greiner/ von Kienlin); Henze, Dipl.-Phys. M. (Pietsch); Huang, Dipl.-Phys. H.-H. (Becker); Huber, Dipl.-Phys. B. (until 31.8., von Kienlin/ Kanbach); Jocham, C. (Becker); Kretschmer, Dipl.-Phys. K. (Diehl); Krühler, Dipl.-Phys. T. (Greiner); Lang, Dipl.-Phys. M. (until 31.12., Diehl); Lauf, T. (Strüder); Mikova, A. (until 31.01., v. Kienlin); Mühlegger, Dipl.-Phys. M. (Hasinger); Ohlendorf, H. (Diehl); Olivares, F. (Greiner); Saez-Cano, G. (1.4.-30.9., Diehl); Sädler, C. (until 30.4., Becker); Schächner, Dipl.-Phys. G. (Meidinger); Simionescu, A. (until 31.7., Böhringer); Stiele, Dipl.-Phys. H. (Pietsch/Hasinger); Sturm, R. (Haberl); Sudilovsyk, V. (until 30.6., Savaglio)

Theory and Complex Plasmas

Secretary: Langer, A. / Collmar, E.

Ackermann, U. (5.6.-31.7.); Antonova, Dr. T.; Aschenbrenner, Dr. T.; Badyopadhyay, Dr. P.; Böhringer, Dr. H.; Bunk, Dr. W.; Chaudhuri, Dr. M.; Couédel, Dr. L.; Fassbender, Dr. R.; Höfner, Dipl.-Phys. H.; Honecker, F. (16.3.-31.7.); Hou, Dr. L. (since 1.9.); Ivlev, Dr. A.; Khrapak, Dr. S.; Klumov, Dr. B.; Konopka, Dr. U.; Kretschmer, Dr. M.; Li, Dr. Y.; Monetti, Dr. R.; Nosenko, Dr. T.; Nosenko, Dr. V.; Pierini, Dr. D.; Pompl, Dr. R.; Pratt, Dr. G. (until 30.6.);

Pustynnik, Dr. M.; Räh, Dr. C.; Rothermel, Dr. H. (until 30.6.); Rubin-Zuzic, Dr. M.; Scheingraber, Dr. H.; Schmid, K. (since 1.11.); Shimizu, Dr. T.; Shimizu, Dr. S.; Sidorenko, Dr. I.; Thoma, Dr. M.; Thomas, Dr. H.; Verdugo, Dr. M. (since 15.8.); Yaroshenko, Dr. V.; Zhdanov, Dr. S.; Zimmermann, Dr. J.

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PhD / Diploma / Master

Braglia, Dipl. Phys. F. (since 1.10., Böhringer); Brandt, Dipl.-Phys. P. (Morfill); Du, Ch. (since 1.8., Thomas); Fink, Dipl.-Phys. M. (Morfill); Giodini, Dipl. Phys. S. (Böhringer); Heidemann, R. (Thomas); Huber, Dipl.-Phys. P. (Morfill); Jeon, J. (since 2.11., Thoma); Jiang, Ke (Morfill); Knappek, Dipl.-Phys. C. (Morfill); Lachner, V. (since 1.10.; Zimmermann); Meyer, H. (since 10.8., Räh); Mitic, Dipl. Phys. S. (Morfill); Mihatsch, Dipl. Phys. S. (Bunk); Mois, A. (Böhringer); Rossmanith, Dipl. Phys. G. (Morfill); Santos, Dipl. Phys. J. (since 1.10., Böhringer); Schwabe, Dipl.-Phys. M. (Konopka); Simionescu, Dipl. Phys. A. (until 31.7., Böhringer); Suhada, Dipl. Phys. R. (Böhringer); Sütterlin, Dipl.-Phys. R. (Morfill); Wörner, L. (since 28.1., Thoma); Zhang, Y.-Y. (Böhringer)

Optical and Interpretative Astronomy

Secretary: Rieperding, M.

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Guests

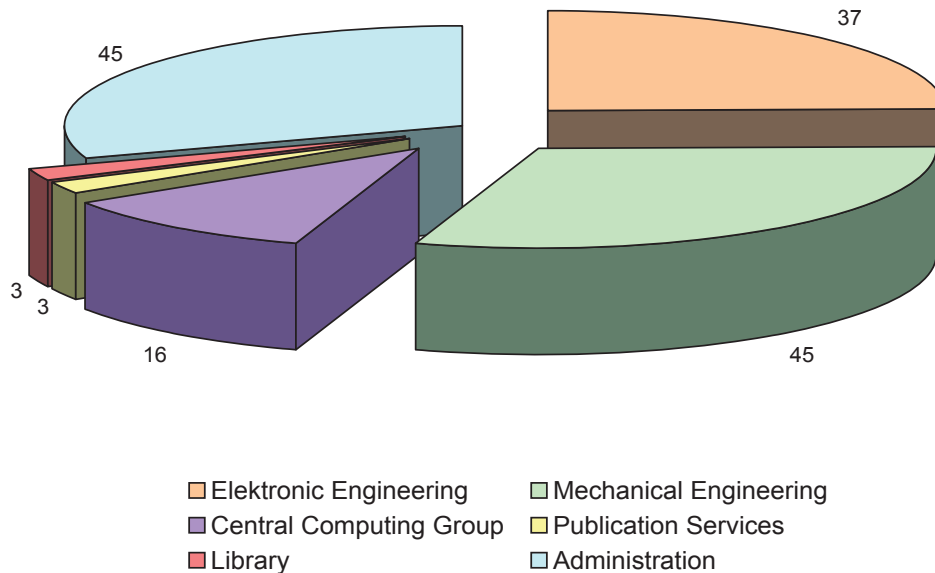
Gebhardt, Dr. K. (1.6.-8.8.); Hill, Dr. G. (22.8.-30.9.); Pannella, Dr. M. (6.10.-30.11.)

PhD / Diploma / Master

Balaguera-Antolinez, A. (Bender); Cappetta, M. (since 1.9., Saglia); Connelly, J. (Bender); Fabricius, M. (since 1.10., Bender); Hilz, M. (Burkert); Hirschmann, M. (until 30.9., Burkert); Kelzenberg, R. (until 28.2., Saglia); Kotarba, H. (Bender); Markovic, K. (since 1.9., Weller); Montesano, F. (Bender); Morganti, L. (Gerhard); Ntormousi, E. (Burkert); Oser, L.G. (Burkert); Pekruhl, S. (since 1.11., Bender); Prianto Rusli, S. (Saglia); Pu, S. (Saglia); Schlagenhauser, H. (until 30.9., Bender); Schoenrich, R. (Bender); Sundqvist, J. (Bender); Ulubay Siddiki, A. (until 31.5., Gerhard); Ventimiglia, G. (since 1.9., Gerhard); Zendejas Dominguez, J. (since 10.9., Saglia)

Engineering and Workshops

Engineering, Workshops, Central Services Staff



Electronic Engineering

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Mechanical Engineering

Mechanical Design

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 Deysenroth, C.; Deysenroth, M.; Dittrich, Dipl.-Ing. (FH) K.; Haug, Dipl.-Ing. (FH) M.; Huber, Dipl.-Ing. H.; Mayr-Ihbe, R.; Mican, Dipl.-Ing. B.; Paßlach, Dipl.-Ing. (FH) S.; Plangger, M.; Pietschner, Dipl.-Ing. (FH) D.; Rohe, C.; Schreib, R.; Stadler, G.; Strecker, R. (since 1.10.); Tiedemann, Dipl.-Ing. L.; Wick, S. (since 3.8.)

Mechanical Workshop

Czempiel, S. (Head of Mechanical Workshop)
 Bayer, R.; Blasi, T.; Bibracher, M. (since 1.2.); 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.; Niemetz, E. (17.7.-31.8.); Sandmair, R.; Schindlmeier, M. (1.2.-31.8.); Schneider, A.; Schnell, P.; Schunn, W.; Soller, F.; Straube, P.; Urban, T. (since 17.7.)

Apprentices

Bibracher, M. (until 30.1.); Cziasto, D.; Greil, M. (since 1.9.); Hartwig, J. (until 28.2.); Hasinger, S.; Huber, D.; Mihé, F.; Niemetz, E. (until 16.7.); Schindlmeier, M. (until 30.1.); Schneider, A. (until 28.2.); Senftleben, S.; Urban, T. (until 16.7.); Wachendorf, M. (since 1.9.)

Work Experience (Schools)

Dinal, F. (16.-20.3.); Häckl, M. (9.-13.3.); Herzog, F. (20.-25.7.); Kübler, K. (14.-17.4.); Sediqi, E. (4.-8.5.)

Work Experience (University)

Schindlmeier, A. (6.-24.7.; 31.8.-2.10)

Central Services

Computing

Central Computing Committee

Bauer, Dipl.-Phys. O.H. (Head, until 31.10.)

Haberl, Dr. F. (Head, since 1.11.)

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

Central Computing Support Group

Bauer, Dipl.-Phys. O.H. (Head, until 31.10.)

Haberl, Dr. F. (Head, since 1.11.)

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

Publication Services and Copy Shop

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

Library

Chmielewski, E. (Head)

Blank, E.; Emslander, V. (10.-28.8.); Hardt, C.

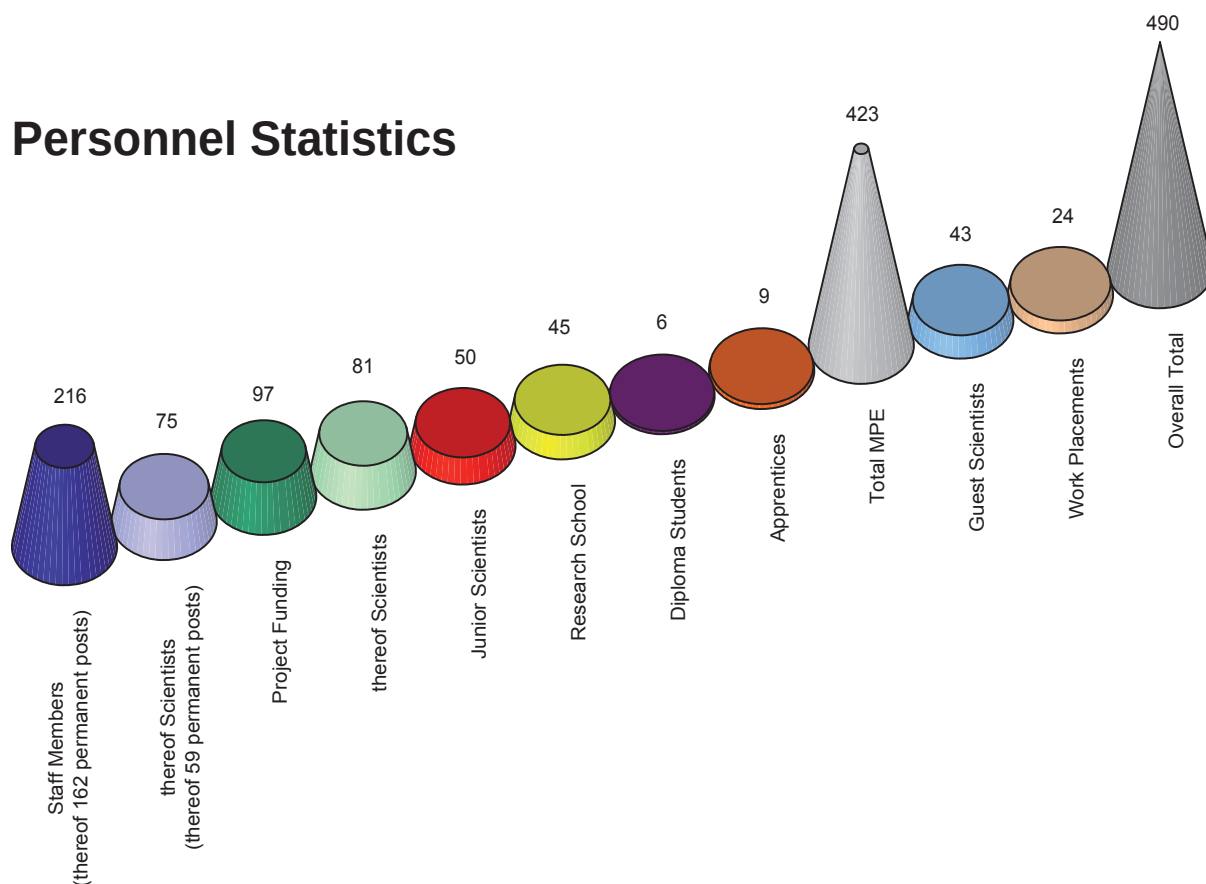
Administration

Ihle, M. (Head of VAD)

Secretary: Kliem, V.

Apold, G.; Arturo, A.; Bauernfeind, M.; Bitzer, U.; Blascheck, M.; Christof, J. (14.-18.4.; 17.-21.8.); Cziasto, U.; Doll, E.; Eicher, C.; Ertl, M.; Goldbrunner, S.; Grasemann, M.; Grohmann, M.; Gschnell, H.-P.; Hübner, R. (4.-10.5.; 24.-30.8.; 20.-27.10.); Ingram, E. (29.7.-28.8.); Inhofer, I.; Jäkel, T.; Jirsch, J.; Karing, W.; Keil, M.; Kestler, L.; Kürzinger, T.; Kuhwald, E. (since 1.10.); Mayer, L. (since 1.2.); Mühlberg, A. (since 22.9.); Nagy, A.; Neun, A. (BR); Peischl, M.; Preisler, C.; Reither, A.; Rochner, R.; Rossa, E.; Sandtner, P.; Sarsilmaz, E. (apprentice); Scheiner, B.; Schrötter, B. (until 30.4.); Schwaiger, S.; Sedlmeir, G. (14.-30.4.; 1.-10.6.; 7.9.-17.10.); Seeger, G.; Steinle, R.; Strecker, R.; Thiess, L.; Vogt, J.P.

Personnel Statistics

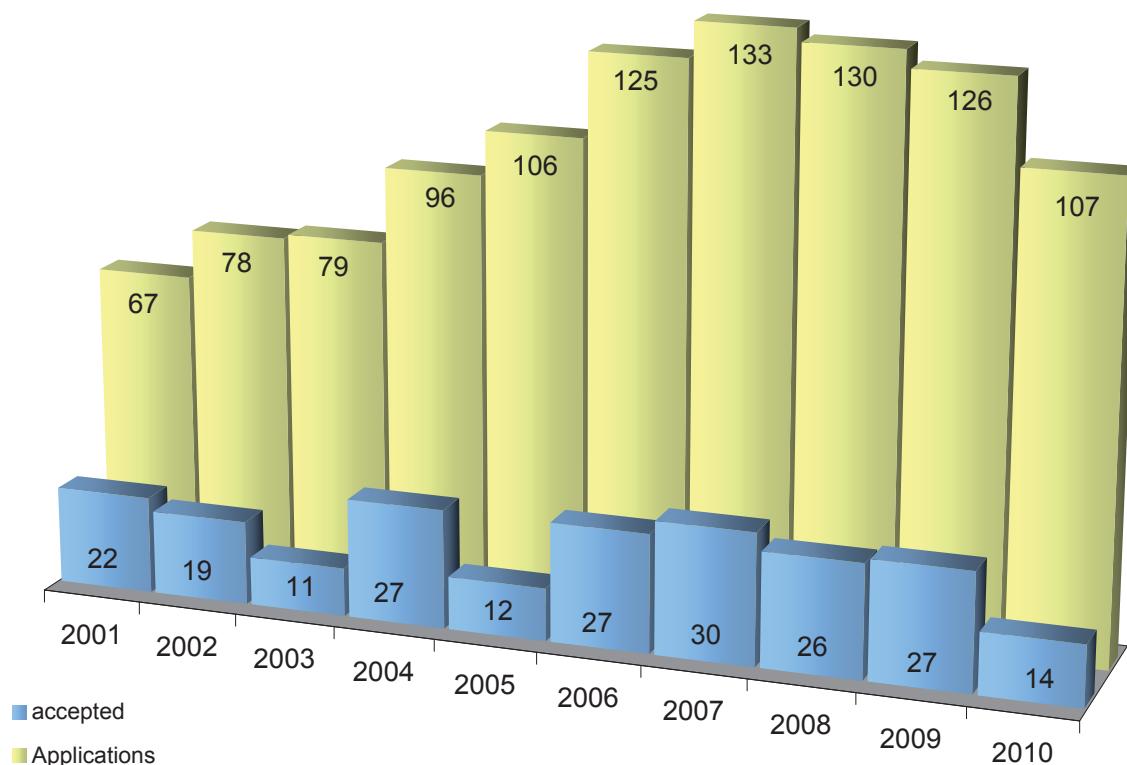


International Max-Planck Research School (IMPRS) für Astrophysics

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 2009 a total of 80 students took part in the program, thereof 45 at the MPE. 107 students applied for the year 2010, 14 of those were accepted (up to March).

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 1047 students applied.

PR Work

MPE is engaged in public relations work and education. The activities in 2009 were: 39 public talks, 10 popular science articles, 20 press releases/news, 21 guided tours through the institute (mainly scientifically orientated school classes), supervising 17 internships of high school students (1-2 weeks) and 7 university

students (4-8 weeks). In addition MPE participated in generating the cosmology Exhibition "Evolution of the Universe" in the Deutsche Museum (Munich), in the federal initiative "Girl's Day", organised an "Open House" (~ 3000 visitors) and produced 3 vodcasts about MPE science themes.

Project-Groups

(Project managers underlined)

Space Physics of the Near-Earth Environment

ACE / SEPICA
Klecker.

CLUSTER / CIS
Klecker, Paschmann, Scholer.

CLUSTER / EDI
Paschmann.

ROSETTA-Lander
Haerendel, Thiel.

SAMPEX / HILT
Klecker, Scholer.

SOHO / CELIAS
Klecker, Scholer.

STEREO / PLASTIC
Klecker.

Infrared / Submillimeter-Astronomy

Deputies to the Director of the Group
Lutz, Tacconi.

GRAVITY
Bartko, Eisenhauer, Gillessen, Gräter, Haug, Hofmann, Kellner, Pfuhl, Thiel.

Herschel-PACS
Barl, Bauer, Berta, Contursi, Doublier Pritschard, de Jong, Eibl, Feuchtgruber, Geis, Gueguen, Hartinger, Katterloher, Kleiser, Krombach, Lutz, T. Müller, Osterhage, Poglitsch, Popesso, Sturm, Thiel, Vilenius, Wetzstein, Wieprecht, Wiezorrek.

KMOS
Agudo Berbel, Bouché, Davies.

LBT Argos
Deysenroth M., Gemperlein, Kanneganti, Orban de Xivry, Rabien, Ziegler

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

MICADO
Barl, Davies, Eisenhauer, Förster Schreiber, Thiel.

PRIMA Testbed
Bartko, Eisenhauer, Haug, Kellner, Pfuhl.

Sofia-FIFI-LS
Fumi, Geis, Hönle, Oberauer, Poglitsch, Raab, Schweitzer.

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

Galaxienkerne
Contursi, Davies, Engel, Genzel, Gracia Carpio, Hayley-Dunsheath, Hicks, Lutz, Müller-Sanchez, Schweitzer, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung
Berta, Bouché, Buschkamp, Cresci, Eisenhauer, Förster Schreiber, Genel, Genzel, Kurk, Lutz, Magnelli, Nordon, Popesso, Saintonge, Shao, Sturm, Tacconi.

Sternentstehung
Brown, Herczeg, Karska, van Dishoeck.

High-Energy Astrophysics

AGADE
Greiner, v. Kienlin, Kanbach, B. Huber.

Astrogrid-D
Voges.

CAST
Bräuninger, Strüder.

Chandra
Burwitz, Predehl.

IXO
Aschenbach, Boller, Burkert, Freyberg, Friedrich, Herrmann, Mießner, 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, Hirschinger, F. Huber, H. Huber, Kink, Meidinger, Mican, Mühlegger, Müller, Pfeffermann, Predehl, Rohe, Schächner, Schreib, Schrey, Strüder, Tiedemann, Vongehr.

ROSAT
Haberl, Voges.

SIMBOL-X
Briel, Hälker, Herrmann, Huber, Lechner, Pietsch, Strüder, Treis.

Swift
Ajello, Greiner, Strong.

Virtual Observatories
Kim, Lemson, Voges.

XMM-Newton

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

CGRO (COMPTEL, EGRET)

Collmar, Diehl, Kanbach, Orlando, Strong.

Fermi

Bissaldi, Collmar, Diehl, Greiner, Kanbach, v. Kienlin, McBreen, Steinle, Strong.

GROND

Afonso, Bornemann, Clemens, Greiner, Huber H., Krühler, Löw, Schrey, Yoldas.

INTEGRAL

Diehl, v. Kienlin, Lang, Rehm, Strong, Zhang.

OPTIMA

Kanbach, Rau, Schrey, Steinle, Stefanescu.

GRIPS

Ajello, Collmar, Diehl, Greiner, Kanbach, v. Kienlin, McBreen, Orlando, Savaglio, Strong.

Nukleare Astrophysik

Diehl, Kretschmer, Martin, Ohlendorf, Saez-Cano.

Cosmic Rays

Martin, Strong.

Gamma-Ray Bursts

Clemens, Greiner, B. Huber, Kanbach, Krühler, McBreen, Savaglio, Stefanescu, Yoldas.

Kompakte Objekte

Becker, Burwitz, Haberl, Kanbach.

Nahe Galaxien

Freyberg, Haberl, Henze, Pietsch, Stiele, Sturm.

Aktive Galaxien

Ai, Boller, Komossa, Lu, Mazzalay, Ramirez, Rodriguez, Zhon.

Theory and Complex Plasmas

Plasmalab

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

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.

Praktikumsversuch "Plasmakristall"

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

Streifenelectrode

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

Adaptive Electrode

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

Diamant-Labor

Morfill, Rothermel, S. Shimizu, Thomas.

Hochenergie Astrophysik

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

GEC-Labor

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

Hochfeld-Labor

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

Nicht-lineare Dynamik, Komplexe Systeme

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

Plasma Medizin

Bunk, Huber, Morfill, Nosenko, Pompl, Schmid, Shimizu, Steffes, Zimmermann.

Optical and Interpretative Astronomy

ASTRO-WISE

Bender, Saglia, Wilman.

Galaxy Dynamics

Bender, Gerhard, Saglia.

KMOS

Bender, Saglia.

Large Scale Structure

Bender, Phleps, Saglia, Wilman.

MUNICS

Bender, Hopp, Drory.

OmegaCAM

Bender, Hopp.

PanSTARRS

Bender, Hopp, Phleps, Saglia, Wilman.

Stellare Populationen und Galaxienentstehung

Bender, Hopp, Pierini.

Teaching

IMPRS for Astrophysics, Garching

Boller

Distribution Functions in Astrophysics/Active Galactic Nuclei (WS 08/09)

Gerhard

Advanced Course II Galaxies and the Galaxy: Structure and dynamics of the Milky Way (Oktober/November 09)

Saglia/Bender

IMPRS Astronomy & Astrophysics Introductory Course (WS 08/09, SS 09)

Ludwig-Maximilians-Universität München

Becker

Weißer Zwerge, Neutronensterne und Schwarze Löcher (WS 08/09, WS 09/10)

Gravitationswellen und deren Nachweis (SS 09)

Bender

Astronomisches Hauptseminar zur Astrophysik (SS 09, WS 09/10)

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

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

Astronomisches Kolloquium (SS 09, WS 09/10)

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

Extragalactic Group Seminar (E) (SS 09, WS 09/10)

Introduction into Astronomy and Astrophysics and Exercises (WS 08/09)

Böhringer/Fassbender/ Phleps

Galaxien und Galaxienhaufen im Universum (WS 08/09, SS 09)

Einführung in die beobachtungsorientierte Kosmologie (SS 09, WS 09/10)

Böhringer

Cosmology and Large-Scale Structure of the Universe (SS 09)

Gillessen

Tools of modern astrophysics (WS 08/09, SS 09, WS 09/10)

Technische Universität München

Eisenhauer

Einführung in die Astrophysik (WS 08/09, WS 09/10)

Diehl

Nuclei in the Cosmos - "The Role of Nuclear Structure in Astrophysics" (WS 09/10)

Observational High-Energy Astrophysics" (SS 09)

Nuclei in the Cosmos - "Techniques of Measuring Cosmic Nuclei" (WS 08/09)

Universität Giessen

Thoma

Theoretische Plasmaphysik (SS 09)

Physik in der Schwerelosigkeit (WS 09/10)

Goethe-Universität Frankfurt am Main

Boller

Einführung in die Astrophysik II (WS 08/09)

Kernregionen aktiver Galaxien (WS 09/10)

Sächsisches Bildungsinstitut

Sturm

Sächsischer Tag der Schulastronomie (SS 09)

University of Heidelberg

Khochfar

Structure Formation in the Universe (WS 09/10)

VHS Oberhaching

Becker

Unser Universum (SS 09)

Organisation of Seminars and Conferences

The local volume: constraints on galaxy formation and evolution. Jenam 2009, Hatfield, UK, 21.-22.4.2009, Organisation: R.P. Saglia.

Massive Black Hole Binaries and their Coalescence in Galactic Nuclei, Kavli Institute for Astronomy and Astrophysics, Beijing, China, 20.-25.7.2009, Organisation: S. Komossa, F. Liu, D. Lin, D. Merritt, L. Rezzolla, R. Spurzem, X.-B. Wu, Q. Yu.

IAU-Symposium 267: Evolution of Galaxies and Central Black Holes - Feeding and Feedback, Rio de Janeiro, Brazil, 5.-10.8.2009, Organisation: B. Peterson, M. Elvis, L. Ferrarese, T. Heckman, S. Komossa, G. Kauffmann, P. Lira, A. Marconi, H. Netzer, E. Sadler, R. Somerville, T. Storchi-Bergmann, K. Wada, M. Ward.

Supersoft X-ray Sources - New Developments, Villafranca del Castillo, Madrid, Spain, 18.-20.5.2009, Organisation: F. Haberl, N. Scharrel, R. Gonzalez, J. Greiner, M. Hernanz, M. Orio, R. Di Stefano, J. Osborne, M. Kato, J.-P. Lasota, K. Mukai.

AO for ELT, Paris, France, 22.-26.6.2009, Organisation: T. Fusco, Y. Clenet, J.-L. Beuzet, B.R. Brandl, J.-M. Conan, E. Diolaiti, F. Eisenhauer, B. Ellerbroek, M. Ferrari, W. Gaessler, N. Hubin, M. Kasper, R. Myers, G. Rousset, J.-P. Veran.

DLR-MPE Workshop - Soft Matter and Materials Physics in Space, Ringberg/Tegernsee, Germany, 14.-16.9.2009, Organisation: M. Thoma, H.M. Thomas.

PK-3 Plus Symposium 2009, Garching, Germany, 27.-28.10.2009, Organisation: H.M. Thomas, A. Langer.

Annual Meeting of the German Long Wavelength Consortium (GLOW), MPA, Garching, Germany, 2.-3.7.2009, Organisation: A. Merloni, B. Ciardi, J. Weller.

From circumstellar disks to planetary systems: annual MPE-ESO-MPA-USM workshop, Garching, Germany, 3.-6.11.2009, Organisation: E.F. van Dishoeck, L. Testi, J. Brown, G. Herczeg, A. Burkert, P. Klaassen, L. Ricci, P. Teixeira, J. Zanker-Smith, C. Stoffer.

From cores to disks: Spitzer IRS and VLT-CRIRES studies, Garching, Germany, 30.10.-2.11.2009, Organisation: E.F. van Dishoeck, G. Herczeg, J. Brown.

Galaxy Metabolism: Galaxy Evolution Near and Far, Sydney, Australia, 22.-26.6.2009, Organisation: J. Bland-Hawthorn, R. Braun, J. Dickey, A. Hopkins, G. Kauffmann, L. Kewley, M. Shull, L.J. Tacconi.

To the Edge of the Universe: 30 Years IRAM Anniversary Celebration, Grenoble, France, 28.-30.9.2009, Organisation: J. Alcolea, P. Andre, F. Boulanger, P. Cox, P. Goldsmith, S. Guilleaume, D. Muders, L.J. Tacconi, P. De Vicente, F. Wyrowski.

Physics of Galactic Nuclei, Ringberg, Germany, 15.-19.6.2009, Organisation: A. Burkert, M. Krause, M. Scharfmann, M. Hirschmann, C. Alig, S. Khochfar.

Joint Discussion 1: Dark matter in early-type galaxies, General Assembly of the IAU, Rio de Janeiro, Brazil, 3.-5.8.2009, Organisation: L. Koopmans, T. Treu, L. Ciotti, W. Evans, O. Gerhard, D. Maoz, P. Natarajan, T. Ohashi, S. Pellegrini.

Joint Discussion 2: Diffuse light in galaxy clusters, General Assembly of the IAU, Rio de Janeiro, Brazil, 6.-7.8.2009, Organisation: M. Arnaboldi, O. Gerhard, C. Adami, R. Ciardullo, K.C. Freeman, L. Mayer, C.L. Mendes de Oliveira, S. Okamura, S.D.M. White, A. Zabludoff.

Modelling the Milky Way in the era of Gaia, General Assembly of the IAU, Rio de Janeiro, Brazil, 6.-7.8.2009, Organisation: J.J. Binney, L.A.C. Aguilar, H.B. Dejonghe, K.C. Freeman, O. Gerhard, N. Gouda, A. Helmi, J.R.D. Lepine, A.C. Quillen, A.C.R. Robin, N.Y. Sotnikova.

The Origins of ^{44}Ti , Garching, Germany, 15.1.2009, Organisation: R. Diehl, R. Kruecken, H.T. Janka.

Detectors for Astronomy 2009, Garching, Germany, 12.-16.10.2009, Organisation: D. Baade, J. Beletic, R. Campbell, D. Figer, G. Finger, J.-L. Gach, S. Miyazaki, P. Moore, G. Tarié, S. Tulloch, A. Short, I. Bronnert, M. Fabricius, L. Feng, N. Neumayer, U. Seeman, C. Stoffer.

MPE Workshop on Medical Physics, Ringberg, Germany, 21.-23.10.2009, Organisation: W. Bunk, E. Collmar, G. Morfill, J. Zimmermann.

Directional discontinuities in the interplanetary magnetic field, International Space Science Institute, Bern, Switzerland, 19.-23.10.2009. Organisation: G. Paschmann.

The future of magnetospheric research, ISSI Forum, 24.-25.3.2009. Organisation: G. Paschmann.

Publications

Here we present a tabular and graphical summary of our publication activities in 2009. The publications are counted

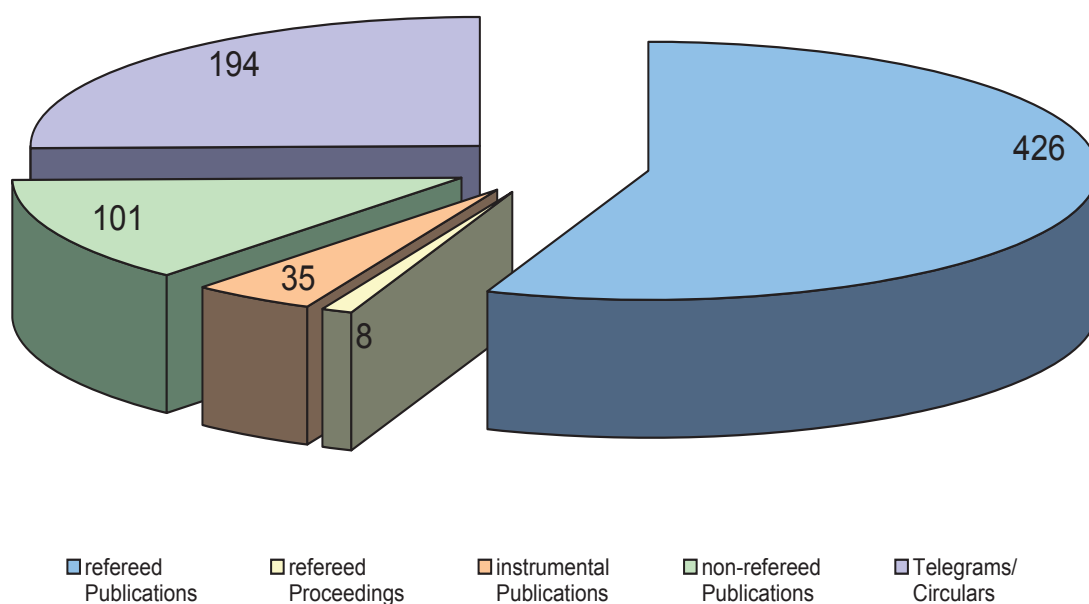
by science group and publication type. The individual publications are listed consecutively.

Summary of MPE Publications in 2009

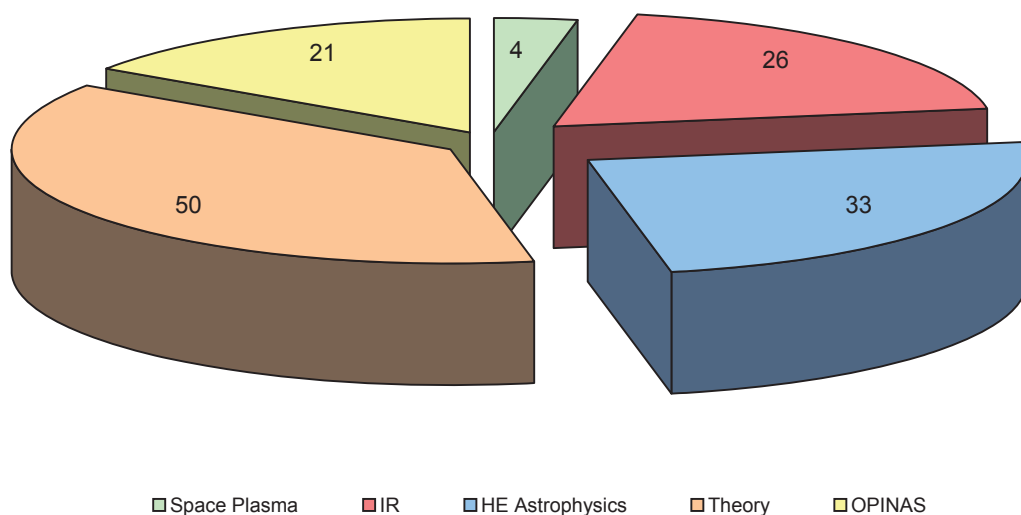
Science Group	refereed Publications	refereed Proceedings	Instrument. Publications	non-refereed Publications	Telegrams/Circulars	Talks	Poster
Space Plasma	4 (17)	0 (0)	0 (1)	4 (5)	0 (0)	9 (20)	3
IR	26 (99)	0 (0)	0 (2)	10 (24)	0 (1)	108 (151)	11
HE Astrophysics	33 (164)	1 (2)	11 (30)	15 (51)	126 (192)	91 (164)	25
Theory	50 (80)	5 (6)	0 (2)	8 (12)	0 (0)	35 (87)	17
OPINAS	21 (66)	0 (0)	0 (0)	6 (9)	0 (1)	37 (72)	12
Total	134 (426)	6 (8)	11 (35)	43 (101)	126 (194)	280 (494)	68

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.

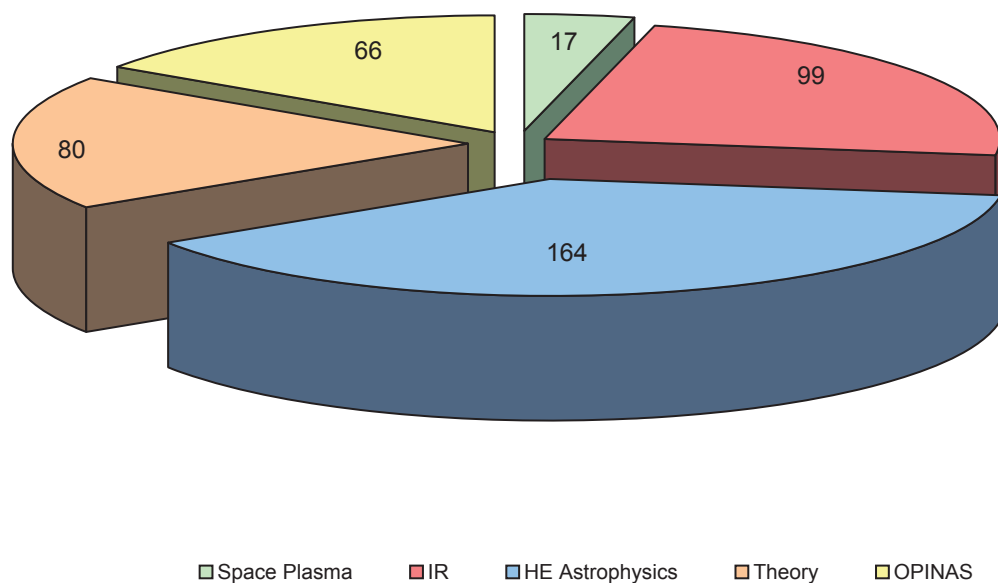
Total MPE Publications 2009 (by Type)

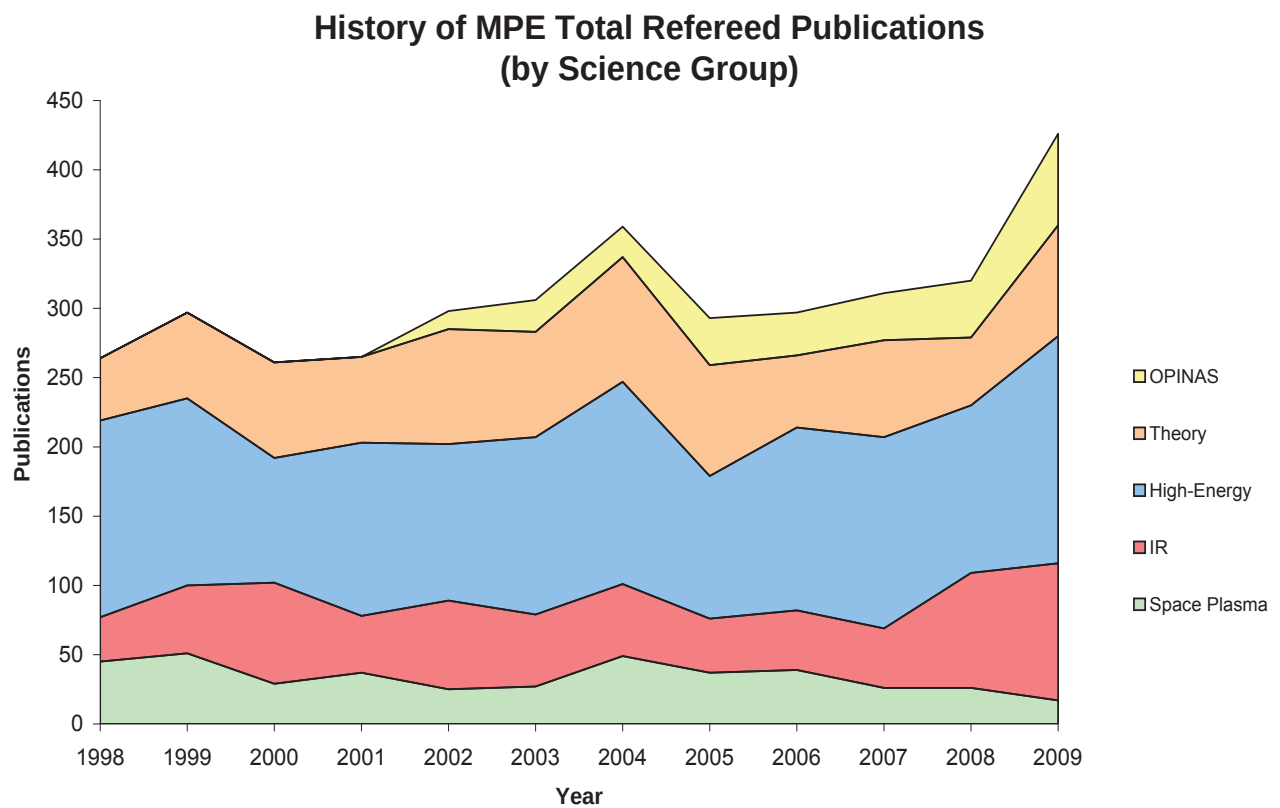


Refereed Publications with MPE first author 2009 (by Science Group)



Total Refereed Publications 2009 (by Science Group)





Refereed Publications

- Abazajian, K.N., J.K. Adelman-McCarthy, M.A. Agüeros, ..., W. Voges, et al.: The Seventh Data Release of the Sloan Digital Sky Survey. *Ap. J. Supp. Ser.* 182, 543-558 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, et al.: Detection of 16 gamma-ray pulsars through blind frequency searches using the Fermi LAT. In: *Science* 325, 5942, 840-844 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, ..., A.W. Strong, et al.: Measurement of the cosmic ray e^+e^- spectrum from 20 GeV to 1 TeV with the Fermi large area telescope. *Phys. Rev. Lett.* 102, 18, Seq. No.: 181101 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, et al.: A population of gamma-ray millisecond pulsars seen with the Fermi large area telescope. In: *Science* 325, 5942, 848-852 (2009).
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- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, et al.: Fermi/LAT observations of LS 5039. *Ap. J. Letters* 706, 1, L56-L61 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, et al.: Fermi large area telescope detection of pulsed gamma-rays from the Vela-like pulsars PSR J10485832 and PSR J2229+6114. *Ap. J.* 706, 2, 1331-1340 (2009).
- Abdo, A.A., M. Ackermann, W. B. Atwood, ..., E. Orlando, et al.: Discovery of pulsed gamma-rays from the young radio pulsar PSR J10285819 with the Fermi large area telescope. *Ap. J. Letters* 695, 1, L72-L77 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, et al.: Pulsed gamma-rays from PSR J2021+3651 with the Fermi large area telescope. *Ap. J.* 700, 2, 1059-1066 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, E. Orlando, et al.: Fermi LAT discovery of extended gamma-ray emission in the direction of supernova remnant W51C. *Ap. J. Letters* 706, 1, L1-L6 (2009).
- Abdo, A.A., M. Ackermann, W. B. Atwood, ..., E. Orlando, et al.: Fermi/large area telescope discovery of gamma-ray emission from the flat-spectrum radio quasar PKS 1454354. *Ap. J.* 697, 1, 934-941 (2009).
- Abdo, A.A., M. Ackermann, W. B. Atwood, ..., E. Orlando, et al.: Pulsed gamma rays from the millisecond pulsar J0030+0451 with the Fermi large area telescope. *Ap. J.* 699, 2, 1171-1177 (2009).
- Abdo, A.A., M. Ackermann, K. Asano, ..., E. Bissaldi, ..., E. Orlando, ..., A. von Kienlin, et al.: Fermi Observations of High-energy Gamma-ray Emission from GRB 080825C. *Ap. J.* 707, 580-592 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Bissaldi, ..., J. Greiner, ..., A. von Kienlin, et al.: A limit on the variation of the speed of light arising from quantum gravity effects. *Nature* 462, 331-334 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Bissaldi, ...E. Orlando, ..., A. von Kienlin, et al.: Fermi Observations of GRB 090902B: A Distinct Spectral Component in the Prompt and Delayed Emission. *Ap. J. Lett.* 706, L138-L144 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, ..., A.W. Strong, et al.: Fermi/Large Area Telescope Bright Gamma-Ray Source List. *Ap. J. Supp. Ser.* 183, 46-66 (2009).
- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, ..., A.W. Strong, et al.: Fermi LAT Observation of Diffuse Gamma Rays Produced Through Interactions Between Local Interstellar Matter and High-energy Cosmic Rays. *Ap. J.* 703, 1249-1256 (2009).
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- Abdo, A.A., M. Ackermann, M. Ajello, ..., E. Orlando, et al.: Fermi Discovery of Gamma-ray Emission from NGC 1275. *Ap. J.* 699, 31-39 (2009).
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Balaguera-Antolinez, A.: The REFLEXII galaxy cluster catalogue: power spectrum analysis, colloquium, Astrophysical Institute Potsdam, Potsdam, Germany, December 2009.

Bartko, H.: A Warped Disk of Young Stars in the Galactic Center, colloquium, Astrophysics Colloquium, Charles University, Prague, Czech Republic, January 2009.

Bartko, H.: Massive Young Stars in the Galactic Center, invited talk, Stars and Singularities The physics of dense cusps around massive black holes, Tel Aviv/Rehovot, Israel, December 2009.

Bartko, H.: Young Stars in the GC, contributed talk, Galactic Center Workshop 2009, Shanghai, China, October 2009.

Becker, W.: Neutron Stars and Supernova Remnants to be studied with eROSITA, contributed talk, eROSITA Simulations Workshop, Garching MPE, Germany, December 2009.

Becker, W.: Pulsars to be studied with IXO and eROSITA, invited talk, Astrophysics of Neutron Stars, Istanbul, Turkey, September 2009.

Becker, W.: Faszination Sternbilder, VHS Oberhaching, April 2009, public talk, Volkshochschule (VHS), Oberhaching, Germany, April 2009.

Becker, W.: Faszination Weltraum, invited talk, MinTiff: Science meets fiction, Garching, Germany, July 2009.

Becker, W.: Großteleskope für die Astrophysik, VHS Oberhaching, public talk, Volkshochschule (VHS) Oberhaching, Oberhaching, Germany, July 2009.

Becker, W.: Pulsars in X, invited talk, Pulsars in their diversity, Marciana Marina, Elba, Italy, June 2009.

Bender, R.: Black Holes, invited talk, Astronomisches Institut der Universität Innsbruck, Austria, March 2009.

Bender, R.: Black Holes, invited talk, Galaxy Conference,

Rome, Italy, April 2009.

Bender, R.: Dark Energy and Dark Matter, invited talk, Max-Planck-Institut für Physik, Munich, Germany, February 2009.

Bender, R.: Elliptical Galaxies, invited talk, Conference on Black Holes, Schloss Ringberg, Kreuth, Germany, June 2009.

Bender, R.: KMOS, invited talk, Meeting at Schloss Ringberg, Kreuth, Germany, July 2009.

Bender, R.: Schwarze Löcher, public talk, Akademie Vortrag in der LMU/USM, Munich, Germany, May 2009.

Bernhardt, M.G.: Neutron Stars in the Braneworld, invited talk, MPE, Garching, Germany, April 2009.

Böhringer (due to illness presented by M. Arnaud), H.: Galaxy Cluster Cosmology, invited talk, IXO Science Meeting, Boston, USA, January 2009.

Böhringer, H.: An X-ray Survey of Galaxy Cluster Structure for Cosmological Studies, colloquium, Stanford University, USA, November 2009.

Böhringer, H.: Astrophysics and Cosmology of Galaxy Clusters, invited talk, Excellence Cluster Science Day of Research Area E, Garching, Germany, November 2009.

Böhringer, H.: Astrophysics and Cosmology of X-ray Galaxy Clusters, colloquium, ETH Zürich, Switzerland, March 2009.

Böhringer, H.: Galaxy Cluster Astrophysics and Cosmology with IXO, invited talk, IXO Science Meeting, Otaru, Japan, July 2009.

Böhringer, H.: Science with the Most Luminous Rosat Clusters, invited talk, APEX workshop, Bonn, Germany, July 2009.

Böhringer, H.: Statistics of X-ray Clusters of Galaxies, colloquium, Seminar, IUB Bremen, Germany, March 2009.

Boller, Th.: AGN Science: The Past, The Present, The Future, invited talk, The multifrequency behavior of high energy cosmic sources, Vulcano, Italy, May 2009.

Boller, Th.: Anfang und Ende des Universums: Was mit uns geschehen wird, public talk, Tag der offenen Tür am MPE, Garching, Germany, October 2009.

Boller, Th.: Die Zukunft des Universums, public talk, ACUTE Workshop, Novartis Pharma GmbH, Hohenkammer, Germany, April 2009.

Boller, Th.: Supersoft AGN and their relation to Galactic Binaries, contributed talk, Supersoft X-ray Sources - New Developments, ESAC, Villafranca del Castillo, Spain, May 2009.

Boller, Th.: The energy budget of the universe, public talk, Rotary Club Munich International, Munich, Germany, June 2009.

- Boller, Th.: The unusual spectral energy distribution of LBQS 0102-2713, colloquium, XMM SSC Consortium Meeting, Milano, Italy, October 2009.
- Boller, Th.: The unusual spectral energy distribution of the quasar LBQS 0102-2713, invited talk, MPA High Energy Seminar, Garching, Germany, February 2009.
- Bongiorno, A.: AGN studies with the COSMOS and zCOSMOS surveys, contributed talk, Excellence Cluster research area F (Black Holes) Science day, Munich, Germany, September 2009.
- Bongiorno, A.: Evolution of AGN seen through COSMOS, colloquium, Harvard-Smithsonian Center for Astrophysics (CfA), Cambridge, USA, February 2009.
- Bongiorno, A.: Evolution of AGN seen through COSMOS, colloquium, Instituto de Astronomia UNAM-Ensenada, Ensenada, Mexico, February 2009.
- Bongiorno, A.: Evolution of the BH-bulge scaling relation, contributed talk, COSMOS science meeting, Matsuyama, Japan, June 2009.
- Bongiorno, A.: Evolution of the BH-bulge scaling relation, contributed talk, zCOSMOS science meeting, Marseille, France, June 2009.
- Bongiorno, A.: On the evolution of the scaling relations between BHs and their Host galaxies, contributed talk, SPP Meeting, Bonn, Germany, May 2009.
- Bouché, N.: A SIMPLE survey of outflows, colloquium, Hebrew University, Jerusalem, Israel, June 2009.
- Bouché, N.: Étude des galaxies à faible masse, contributed talk, MUSE Workshop, Toulouse, France, March 2009.
- Bouché, N.: Gas accretion and scaling relations, colloquium, European Southern Observatory, Garching, Germany, September 2009.
- Bouché, N.: Gas accretion and scaling relations, contributed talk, Galaxy Formation Workshop, Santa Cruz, USA, August 2009.
- Bouché, N.: Gas accretion and scaling relations, invited talk, SFR@50: Filling the Cosmos with Stars, Spineto, Italy, July 2009.
- Bouché, N.: Mass accretion and scaling relations, contributed talk, Harvesting the Dessert: The Universe between Redshift 1 and 3, Marseille, France, June 2009.
- Bouché, N.: Scaling relations and cold flows, contributed talk, Hebrew University, Jerusalem, Israel, April 2009.
- Bouché, N.: Scaling relations and cold flows, colloquium, University of Tel Aviv, Tel Aviv, Israel, May 2009.
- Bouché, N.: Gas accretion and scaling relations, colloquium, UC Santa Barbara, Santa Barbara, US, January 2009.
- Bouché, N.: Scaling relations and gas accretion, contributed talk, zCosmos workshop, Garching, Germany, February 2009.
- Brandt, P.: Solid-solid phase transition in electrorheological complex plasmas, contributed talk, 12th Workshop on the Physics of Dusty Plasmas, Boulder, USA, May 2009.
- Brandt, P.: Solid-solid phase transitions in electro- and magnetorheological systems, contributed talk, 6. Workshop Angewandte Simulation in der Kristallzüchtung, Potsdam, Germany, April 2009.
- Brown, J.M.: Childhood to Adolescence: Dust and Gas Clearing in Protoplanetary Disks, colloquium, Astronomy Department Seminar, Uppsala Universitet, Sweden, April 2009.
- Brown, J.M.: Childhood to Adolescence: Dust and Gas Clearing in Protoplanetary Disks, colloquium, ISDC/Geneva Observatory, Geneva, Switzerland, April 2009.
- Brown, J.M.: Dust and gas clearing in protoplanetary disks, contributed talk, From circumstellar disks to planetary systems, Garching, Germany, November 2009.
- Brown, J.M.: Tracing the dust and gas in transitional disks, contributed talk, IAU General Assembly - IR and sub-mm spectroscopy special session: a new tool for studying stellar evolution, Rio de Janeiro, Brazil, August 2009.
- Brusa, M.: AGN evolution from large area and deep X-ray surveys, colloquium, INAF - Osservatorio Astronomico di Trieste, Italy, May 2009.
- Brusa, M.: AGN evolution from large area and deep X-ray surveys, colloquium, INAF - Osservatorio Astronomico di Firenze, Italy, June 2009.
- Brusa, M.: AGN evolution from large area and deep X-ray surveys, colloquium, INAF - Osservatorio Astronomico di Bologna, Italy, May 2009.
- Brusa, M.: AGN evolution from large area and deep X-ray surveys, invited talk, Co-evolution of Central Black Holes and Galaxies (IAU S267), Rio de Janeiro, Brazil, August 2009.
- Brusa, M.: Evolution and Identification of (high-redshifts) AGN, invited talk, FXT meeting of the Italian community, Bologna, Italy, November 2009.
- Brusa, M.: obscured and unobscured AGN in COSMOS, contributed talk, COSMOS meeting, Matsuyama, Japan, June 2009.
- Brusa, M.: Star formation and AGN activity in the CDFS, colloquium, Harvard Smithsonian Center for Astrophysics, Cambridge, USA, January 2009.
- Bunk, W.: Decomposition of Raman-Spectra for the (Re) construction of Multicolor IF-Images of Cells, contributed talk, MPE Workshop on Medical Physics, Ringberg, Germany, October 2009.
- Bunk, W.: Description of Skin Wounds Using an Image Analysis Approach, contributed talk, MPE Workshop on Medical Physics, Ringberg, Germany, October 2009.
- Bunk, W.: Identification of Pathological EEG Patterns Using Symbolic Representations, contributed talk, MPE Workshop on Medical Physics, Ringberg, Germany, October 2009.

- Burwitz, V.: The X-ray bright states in the SSS X-ray source RXJ0513.9-6951, contributed talk, Supersoft X-ray Sources - New Developments, ESAC, Spain, May 2009.
- Burwitz, V.: Update on the White Dwarf calibration observations of the WDs HZ 43, Sirius B, and GD153, contributed talk, International Astronomical Consortium for High Energy Calibration (IACHEC) #4, Shonan Village, Japan, April 2009.
- Cappelluti, N.: AGN as tracers of the Large scale structure: the golden contribution of Chandra, contributed talk, Chandra's First Decade of Discovery, Boston, USA, September 2009.
- Cappelluti, N.: eROSITA all-sky survey, colloquium, INAF-IASF Bologna, Italy, July 2009.
- Cappelluti, N.: eROSITA all-sky survey, colloquium, MIT, Boston, USA, September 2009.
- Cappelluti, N.: eROSITA all-sky survey, colloquium, Stanford University/KIPAC, Palo Alto, USA, February 2009.
- Cappelluti, N.: eROSITA all-sky survey, colloquium, UNAM-Ensenada, Ensenada, Mexico, February 2009.
- Cappelluti, N.: eROSITA all-sky survey, colloquium, University of California San Diego, USA, February 2009.
- Cappelluti, N.: eROSITA all-sky survey, invited talk, Wide Field X-ray Telescope meeting, Bologna, Italy, September 2009.
- Cappelluti, N.: The eROSITA all sky survey, colloquium, Goddard Space Flight Center, Greenbelt, USA, January 2009.
- Chaudhuri, M.: Electric potential and ion drag force in highly collisional complex plasmas, contributed talk, 12th Workshop on the Physics of Dusty Plasmas, Boulder, USA, May 2009.
- Chaudhuri, M.: First observation of (probable) standing shock in afterglow Complex Plasma under microgravity condition onboard the ISS, contributed talk, 10th Workshop on Fine Particle Plasma, Toki, Japan, November 2009.
- Chaudhuri, M.: Helical structures in complex plasmas with PK-4, contributed talk, PK-3 Plus Symposium 2009 + ITT-Meeting, Garching, Germany, October 2009.
- Chaudhuri, M.: Ionization controlled interaction potential between positively charged particles in collisional plasmas, contributed talk, Workshop at Yokohama University, Japan, November 2009.
- Chaudhuri, M.: Some recent results on Complex Plasma research under microgravity condition, contributed talk, The Dynamics Days Europe 2009, Göttingen, Germany, August 2009.
- Coccato, L.: Kinematic properties of early type galaxy halos using Planetary Nebulae as kinematic tracers, contributed talk, Seminar at the Dipartimento di Astronomia Università degli Studi di Padova, Padova, Italy, November 2009.
- Coccato, L.: Kinematical properties of elliptical galaxies using Planetary Nebulae, contributed talk, IAU XXVII General Assembly, JD1, Rio de Janeiro, Brazil, August 2009.
- Coccato, L.: Stellar population and kinematics in the outer halo of the BCG galaxy NGC 4889, contributed talk, IAU XXVII General Assembly, JD2, Rio de Janeiro, Brazil, August 2009.
- Couëdel, L.: Electron temperature measurement in a complex plasma, contributed talk, 8th Japan-Australia Plasma Diagnostics Workshop, Murramarang, Australia, February 2010.
- Couëdel, L.: First direct measurement of optical phonons in 2D plasma crystals, contributed talk, 10th Workshop on Fine Particle Plasmas, National Institute for Fusion Science, Toki, Japan, November 2009.
- Cresci, G.: AMAZE with LSD: mass and metallicity evolution at $z>3$, contributed talk, SINS/zCosmos meeting, Venice, Italy, October 2009.
- Cresci, G.: Galaxy formation and evolution in unprecedented detail, colloquium, Osservatorio Astrofisico di Arcetri, Florence, Italy, April 2009.
- Cresci, G.: The dynamics of $z\sim 2$ star forming galaxies in SINS, contributed talk, SFR@50 conference, Spineto, Italy, July 2009.
- Cresci, G.: The SINS survey, colloquium, Pontificia Universidad Católica, Santiago, Chile, January 2009.
- Cresci, G.: Witnessing galaxy formation and evolution at $z>2$ with SINFONI, colloquium, INAF - Osservatorio di Padova, Italy, October 2009.
- Davies, R.I.: Exploring the Starburst-AGN connection on 10pc Scales, colloquium, Joint Astronomy Colloquium (MPE, MPA, ESO, USM), Munich, Germany, January 2009.
- Davies, R.I.: Laser Guide Stars past, present, and future, invited talk, Astronomical science group of Ireland, Galway, Ireland, October 2009.
- Davies, R.I.: MICADO and MAORY: Science with MCAO on the E-ELT, invited talk, MAD and Beyond: science with multi-conjugate adaptive optics instruments, Munich, Germany, June 2009.
- Davies, R.I.: MICADO: Multi-AO Imaging Camera for Deep Observations, invited talk, E-ELT Instrumentation at Phase A mid-term, Munich, Germany, February 2009.
- Davies, R.I.: MICADO: science and adaptive optics requirements, contributed talk, Adaptive Optics for Extremely Large Telescopes, Paris, France, June 2009.
- Davies, R.I.: MICADO: the E-ELT Adaptive Optics Imaging Camera, colloquium, Durham University, UK, December 2009.
- Davies, R.I.: MICADO: the E-ELT adaptive optics imaging camera, invited talk, Scientific and technological challenges in the development of astronomical instrumentation: ALMA and E-ELT, Madrid, Spain, September 2009.

- Davies, R.I.: MICADO: the E-ELT adaptive optics imaging camera, invited talk, The E-ELT: Status, timeline, and instrumentation, Potsdam, Germany, September 2009.
- Davies, R.I.: Precision Astrometry with MICADO, contributed talk, E-ELT Design Reference Mission and Science Plan Workshop 2009, Munich, Germany, May 2009.
- Davies, R.I.: The Impact of Nuclear Star Formation on Gas Inflow to AGN, colloquium, Durham, UK, December 2009.
- Davies, R.I.: The Impact of Nuclear Star Formation on Gas Inflow to AGN, contributed talk, Physics of Galactic Nuclei, Ringberg, Germany, June 2009.
- Davies, R.I.: The Impact of Nuclear Star Formation on Gas Inflow to AGN, invited talk, Evolution of Galaxies and Central Black Holes: Feeding and Feedback, Rio de Janeiro, Brazil, August 2009.
- De Vita, G.: 64-Channel ASTEROID ASIC: Experimental Performance and Measurements with Macro Pixel Arrays for X-Ray Astronomy, contributed talk, IEEE Nuclear Science Symposium and Medical Imaging Conference, Orlando, USA, October 2009.
- De Vita, G.: Experimental results on Asteroid and Vela: two 64 channel ASICs for the readout of DEPFET arrays for X-ray astronomy, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Dennerl, K.: High Resolution X-ray Spectroscopy of Comets with XMM-Newton/RGS, invited talk, High Resolution X-ray Spectroscopy: Towards IXO, MSSL, UK, March 2009.
- Dennerl, K.: Kometen und Planeten in neuem Licht: unser Sonnensystem im Röntgenteleskop, public talk, Sternwarte Regensburg und Hochschule Regensburg, Germany, February 2009.
- Dennerl, K.: Kometen und Planeten in neuem Licht: unser Sonnensystem im Röntgenteleskop, public talk, Volkssternwarte München, Germany, December 2009.
- Dennerl, K.: X-ray Emission of Comets and Planets, colloquium, Observatoire Astronomique de Strasbourg, France, November 2009.
- Diehl, R.: Abundances of ^{44}Ti and related isotopes, contributed talk, Int. Science Workshop on Origins of ^{44}Ti , "Universe" Cluster of Excellence, Garching, Germany, January 2009.
- Diehl, R.: Conference Summary, invited talk, INTEGRAL Science Workshop "The Extreme Universe", Otranto, Italy, October 2009.
- Diehl, R.: Gamma-Ray Line Astrophysics, invited talk, Argonne Natnl Lab Collaboration Workshop, "Universe" Cluster of Excellence, Garching, Germany, May 2009.
- Diehl, R.: Gamma-Ray Signatures from Radioactive Isotopes, invited talk, Int. Heraeus Seminar "Nucleosynthesis", Bad Honnef, Germany, June 2009.
- Diehl, R.: Hochenergie-Astrophysik mit Satellitenteleskopen, invited talk, International Astronautics Regional Workshop, Darmstadt, Germany, April 2009.
- Diehl, R.: How to Exploit Nuclear Properties for Astrophysics, invited talk, VISTARS Nuclear Astrophysics Winter School, Russbach, Austria, March 2009.
- Diehl, R.: Nukleosynthese: Die Erzeugung der kosmischen Vielfalt der Elemente, colloquium, Physikalisches Kolloquium, Schiller Universität Jena, Germany, December 2009.
- Diehl, R.: SNIa Issues and MeV Observations, invited talk, Int. "Next-Generation Gamma-Ray Telescope" Workshop, Garching, Germany, October 2009.
- Diehl, R.: Sources of ^{44}Ti , contributed talk, Int. Science Workshop on Origins of ^{44}Ti , "Universe" Cluster of Excellence, Garching, Germany, January 2009.
- Diehl, R.: Verändert die Astrophysik unsere Weltsicht?, public talk, Jubiläumsveranstaltung "20 Jahre OZON Wissenschaftsmagazin" des RBB, Gollmitz, Germany, September 2009.
- Dodds-Eden, K.: Flares from Sgr A* and their emission mechanism, contributed talk, Galactic Center Workshop 2009, Shanghai, China, October 2009.
- Dodds-Eden, K.: Flares from Sgr A*, invited talk, Stars and Singularities: The physics of dense cusps around massive black holes, Rehovot, Israel, December 2009.
- Eisenhauer, F.: Galactic Science with ESO Adaptive Optics, invited talk, 20 Years of Adaptive Optics at ESO, Garching, Germany, November 2009.
- Eisenhauer, F.: Probing the Galactic Center with GRAVITY, invited talk, Stars and Singularities – The physics of dense cusps around massive black holes, Rehovot, Israel, December 2009.
- Eisenhauer, F.: The Galactic Center: The Ideal Laboratory for Studying Supermassive Black Holes, invited talk, Relativity in Fundamental Astronomy: Dynamics, Reference Frames, and Data Analysis, IAU Symposium 261, Virginia Beach, USA, April 2009.
- Erwin, P.: Composite Bulges: The Coexistence of Classical Bulges and Pseudobulges, colloquium, Caltech, Pasadena, California, USA, January 2009.
- Erwin, P.: Do Nuclear Star Clusters and Supermassive Black Holes Follow the Same Host-Galaxy Correlations?, contributed talk, Hunting for the Dark: The Hidden Side of Galaxy Formation, Bugibba, Malta, October 2009.
- Erwin, P.: The Coexistence of Classical Bulges, Pseudobulges, and Supermassive Black Holes, contributed talk, The Monster's Fiery Breath: Feedback in Galaxies, Groups, and Clusters, Madison, Wisconsin, USA, June 2009.
- Erwin, P.: The Dependence of Bar Fraction on Galaxy Properties, contributed talk, American Astronomical Society Meeting, Pasadena, California, USA, June 2009.

- Fabricius, M.: Kinematics across bulge types, contributed talk, Astronomische Gesellschaft - Herbsttagung 2009, Potsdam, Germany, September 2009.
- Fassbender, R.: Distant X-ray Clusters from the XMM-Newton Distant Cluster Project, contributed talk, SZ 2009: A Multiwavelength Look at Galaxy Clusters, Bonn, Germany, July 2009.
- Fassbender, R.: New high- z X-ray Clusters from the XMM-Newton Distant Cluster Project, contributed talk, ESO Conference on Galaxy Clusters in the Early Universe, Pucon, Chile, November 2009.
- Fedl, V.: Development of infrared BIB detectors with integrated linear amplification, contributed talk, SPIE optics & photonics, San Diego, USA, August 2009.
- Fedl, V.: The clear mechanism of the DEPFET under cryogenic conditions, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Fink, M.: PK-4 Science activities in micro-gravity, contributed talk, European Low Gravity Research Association Biennial Symposium and General Assembly, Bonn, Germany, September 2009.
- Förster Schreiber, N.M.: Galaxy Dynamics and Morphologies, invited talk, Harvesting the Desert - The Universe between redshift 1 and 3, Marseille, France, June 2009.
- Förster Schreiber, N.M.: Insights on early galaxy growth from spatially-resolved dynamics and physical properties of $z \sim 2$ star-forming galaxies, invited talk, Conference of the Accademia Nazionale dei Lincei on Galaxy Properties across Cosmic Ages, Rome, Italy, April 2009.
- Förster Schreiber, N.M.: Resolving the Dynamics and Physical Properties of $z \sim 2$ Galaxies, colloquium, Dept. of Molecular and Infrared Astrophysics, CSIC Madrid, Spain, October 2009.
- Förster Schreiber, N.M.: Resolving the Dynamics and Physical Properties of $z \sim 2$ Galaxies, colloquium, Institute of Astronomy, ETH Zürich, Switzerland, February 2009.
- Förster Schreiber, N.M.: SEDs, invited talk, Workshop: Deep IR Studies of the Distant Universe, Leiden, The Netherlands, February 2009.
- Förster Schreiber, N.M.: SINS and beyond, invited talk, Workshop: Evolution of galaxies from mass-selected samples, Leiden, The Netherlands, November 2009.
- Förster Schreiber, N.M.: SINS, invited talk, Workshop: Deep IR Studies of the Distant Universe, Leiden, The Netherlands, February 2009.
- Förster Schreiber, N.M.: The SINS survey, invited talk, Conference: Unveiling the Mass - Extracting and Interpreting Galaxy Masses, Kingston, Canada, June 2009.
- Förster Schreiber, N.M.: The SINS survey: Insights on the early evolution of galaxies and future prospects with ELTs, contributed talk, Conference: ALMA and ELTs: A Deeper, Finer View of the Universe, Garching, Germany, March 2009.
- Förster Schreiber, N.M.: The SINS survey: resolved galaxy kinematics at $z \sim 2$, colloquium, Institute of Astronomy, Cambridge, UK, April 2009.
- Gaibler, V.: Magnetic fields in large scale jets, contributed talk, Physics of Galactic Nuclei, Ringberg castle, Germany, June 2009.
- Gaibler, V.: Numerical Models for Emission Line Nebulae in High Redshift Radio Galaxies, invited talk, High Performance Computing in Science & Engineering 2009: The 12th Results and Review Workshop of the HLRS, Stuttgart, Germany, October 2009.
- Gaibler, V.: The interaction of jets with galactic gas disks, contributed talk, Powerful Radio Galaxies: Triggering and Feedback, Leiden, The Netherlands, November 2009.
- Genel, S.: The formation of star-forming galaxies at $z \sim 2$: mergers, accretion and feedback, contributed talk, Astrophysics Seminar at the Weizmann Institute, Rehovot, Israel, December 2009.
- Genel, S.: The growth of dark matter halos and implications for galaxy formation, colloquium, Cosmology Seminar at UC Berkeley, USA, July 2009.
- Genzel, R.: Black Holes and Galaxies, invited talk, ASA IYA Lecture Series, University of Perth, Australia, July 2009.
- Genzel, R.: Black Holes and Galaxies, invited talk, IYA Lecture Series, Astronomical Society of Australia (ASA), Canberra, Australia, July 2009.
- Genzel, R.: Cold Gas and KS-Relation at $z > 1$, colloquium, University of California, Berkeley, USA, February 2009.
- Genzel, R.: Extragalactic Science with AO, invited talk, '20 Years of Adaptive Optics' Anniversary at ESO, Garching, Germany, November 2009.
- Genzel, R.: Galactic Centre physics (Milky Way), invited talk, AGN Workshop, Ringberg, Germany, June 2009.
- Genzel, R.: IRAM's Future, Concluding Remarks at IRAM 30 Symposium, invited talk, International Conference '30 years of IRAM - To the Edge of the Universe', Grenoble, France, September 2009.
- Genzel, R.: Kinematic Properties of $z \sim 1-2$ Massive Star Forming Galaxies, invited talk, Santa Cruz Galaxy Workshop, Santa Cruz, USA, August 2009.
- Genzel, R.: Kinematics and evolution of gas-rich, massive galaxy formation, invited talk, Workshop 'The Gaseous Evolution of Galaxies', Ringberg, Germany, November 2009.
- Genzel, R.: Kinematics and Evolution of Massive High- z Galaxies, colloquium, California Institute of Technology, Pasadena, USA, October 2009.
- Genzel, R.: Massive Black Holes and Galaxies, invited talk, Israel Physical Society, Bar-Ilan University, Ramat-Gan, Israel, December 2009.
- Genzel, R.: Massive Black Holes and Galaxies, invited talk, Physikalisches Institut, Universität Bonn, Germany, January 2009.

- Genzel, R.: Massive Black Holes and Galaxies, invited talk, Svein Rosseland Lecture, University of Oslo, Norway, March 2009.
- Genzel, R.: Massive Schwarze Löcher und Galaxien, colloquium, MPI f. Gravitationsphysik/Albert-Einstein-Institut (AEI), Hannover, Germany, November 2009.
- Genzel, R.: Massive Schwarze Löcher und Galaxien, invited talk, Akademie von Nordrheinwestfalen, Düsseldorf, Germany, November 2009.
- Genzel, R.: Massive Schwarze Löcher und Galaxien, invited talk, Akademische Jahresfeier, Fakultät für Physik und Astronomie, Universität Würzburg, Germany, December 2009.
- Genzel, R.: Massive Schwarze Löcher und Galaxien, colloquium, Bayerische Akademie der Wissenschaften, Munich, Germany, October 2009.
- Genzel, R.: Massive Schwarze Löcher und Galaxien, colloquium, Universität Mainz, Germany, November 2009.
- Genzel, R.: Massive Schwarze Löcher, invited talk, Präsentation für den MPG-Senat, Ludwigshafen, Germany, March 2009.
- Genzel, R.: New Results on the stellar cluster in the immediate vicinity of the massive black hole in the Galactic Center, colloquium, University of California, Berkeley, USA, August 2009.
- Genzel, R.: Progress in Studying internal Kinematics of High- z Galaxies, invited talk, SINS-LP Workshop, Venice, Italy, October 2009.
- Genzel, R.: Report from the Abyss: Massive Black Holes, invited talk, UNESCO Opening Ceremony of the International Year of Astronomy, Paris, France, January 2009.
- Genzel, R.: Secular Evolution of Massive Galaxies at $z \sim 2$, colloquium, Stanford University, USA, February 2009.
- Genzel, R.: Secular Galaxy Evolution and Bulge Formation at $z \sim 2$, contributed talk, Conference 'Open Problems in Galaxy Formation', Potsdam, Germany, May 2009.
- Genzel, R.: Spatially resolved dynamics of high- z star forming galaxies, colloquium, Jet Propulsion Laboratory (JPL), Burbank, USA, January 2009.
- Genzel, R.: Status and Open Questions of High- z Galaxy Kinematics, invited talk, SINS-LP Workshop, Munich, Germany, February 2009.
- Genzel, R.: The Massive Black Hole and Nuclear Star Cluster of the Milky Way, invited talk, International Year of Astronomy the Spanish & Royal Academy of Sciences and the Ramon Areces Foundation, Madrid, Spain, October 2009.
- Genzel, R.: The Galactic Massive Black Hole: Recent Results, invited talk, Conference 'Stars and Singularities - The Physics of Dense Cusps around Massive Black Holes', Rehovot, Israel, December 2009.
- Genzel, R.: The Supermassive Black Hole and Nuclear Star Cluster of the Milky Way, invited talk, Australia Telescope National Facility, Sydney, Australia, July 2009.
- Genzel, R.: The Supermassive Black Hole and Nuclear Star Cluster of the Milky Way, invited talk, IYA Lectures, University of Melbourne, Australia, July 2009.
- Genzel, R.: $z \sim 2$ Galaxy disks, invited talk, 2009 Napa Meeting, Berkeley, USA, February 2009.
- Genzel, R.: LIRGS to Submm Galaxies – Evolution with Redshift, invited talk, Spitzer Science Conference 'Reionization to Exoplanets: Spitzer's Growing Legacy', Pasadena, USA, October 2009.
- Gerhard, O.E.: Dark matter and elliptical galaxy dynamics, invited talk, Joint Discussion 1 Dark matter in early-type galaxies, General Assembly of the IAU, Rio de Janeiro, Brazil, August 2009.
- Gerhard, O.E.: Dynamics of cluster cores from planetary nebula velocities, invited talk, Joint Discussion 2 Diffuse light in galaxy clusters, General Assembly of the IAU, Rio de Janeiro, Brazil, August 2009.
- Gerhard, O.E.: Dynamics of elliptical galaxies at large radii, invited talk, The Local Volume: constraints on galaxy formation and evolution, JENAM 2009, University Hertfordshire, UK, April 2009.
- Gerhard, O.E.: Dynamics of elliptical galaxy halos, invited talk, Convegno Internazionale Galaxy properties across cosmic ages, Academia Nazionale dei Lincei, Rom, Italy, April 2009.
- Gerhard, O.E.: Made-to-measure modelling of the Milky Way, invited talk, Joint Discussion 5, Modelling the Milky Way in the era of Gaia, General Assembly of the IAU, Rio de Janeiro, Brazil, August 2009.
- Gerhard, O.E.: NMAGIC made-to-measure modelling of elliptical galaxies, contributed talk, Unveiling the mass, Kingston, Canada, June 2009.
- Gerhard, O.E.: The stellar population in the outer halo of the BCG elliptical galaxy NGC 4889, contributed talk, Hunting the dark: the hidden side of galaxy formation, Malta, October 2009.
- Gerhard, O.E.: What made-to-measure can do for the Milky Way, invited talk, Lorentz Center workshop on Distribution of mass in the Milky Way galaxy, Leiden, The Netherlands, July 2009.
- Gillessen, S.: Chasing a Black Hole in the Infrared, invited talk, infra R&D 2009, Fulda, Germany, June 2009.
- Gillessen, S.: Der verlorene Planet - Pluto, public talk, Planetarium, Hamburg, Germany, June 2009.
- Gillessen, S.: Gamma-Astronomie am Gamsberg, public talk, VDI München, Germany, November 2009.
- Gillessen, S.: Jagd auf ein Schwarzes Loch - eine Nacht am VLT, public talk, Planetarium am Insulaner, Berlin, Germany, March 2009.
- Gillessen, S.: Schwarze Löcher - Science Fiction der Realität, public talk, Volkssternwarte, Winzer, Germany, June 2009.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität, public talk, Volkssternwarte, Neumarkt, Germany, June 2009.

ny, November 2009.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Pfaffenhofen, Germany, February 2009.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Astronomiestiftung, Trebur, Germany, December 2009.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, MPG Jahrestagung, Mainz, Germany, June 2009.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, MPG-Jahrestagung, Bad Sobernheim, Germany, June 2009.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Schule, Straubing, Germany, March 2009.

Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Tag der offenen Tür, Garching, Germany, October 2009.

Gillessen, S.: The Power of Monitoring Stellar Orbits, invited talk, Stars & Singularities, Tel Aviv, Israel, December 2009.

Gillessen, S.: The Power of Monitoring Stellar Orbits, invited talk, Galactic Center Workshop, Shanghai, China, October 2009.

Giodini, S.: Baryons in Galaxy Groups and Clusters: a Tale of Cosmology and Galaxy Formation, colloquium, Leiden Observatory, Leiden, The Netherlands, November 2009.

Giodini, S.: Stellar and Total Baryon Mass Fractions in Groups and Clusters since Redshift 1, invited talk, CalTECH, Pasadena, California, USA, January 2009.

Giodini, S.: Stellar and Total Baryon Mass Fractions in Groups and Clusters since Redshift 1, contributed talk, COSMOS meeting, Matsuyama, Japan, June 2009.

Greiner, J.: Beyond the Swift/INTEGRAL and Fermi/LAT era: GRBs at the extreme, invited talk, 'Joint Gamma-Ray Mission Meeting 2009', ISAS/Tokio, Japan, March 2009.

Greiner, J.: Gamma-Ray Bursts and resonance absorption lines, contributed talk, Workshop 'Towards new MeV astronomy capabilities', Garching, Germany, October 2009.

Greiner, J.: GRBs - the phenomenon, and recent new discoveries, colloquium, INOAE, Tonantzintla, Mexico, November 2009.

Greiner, J.: GRIPS capabilities to measure GRB polarization above 200 keV, contributed talk, 'The coming age of X-ray polarimetry', Rome, Italy, April 2009.

Greiner, J.: GROND follow-up observations of high-energy transients, invited talk, 6th AGILE Science workshop, Milano, Italy, April 2009.

Greiner, J.: GROND: the concept and potential SVOM follow-up, contributed talk, Workshop on GRBs, Marseille, France, May 2009.

Greiner, J.: Neue Entdeckungen mit Fermi, colloquium, Universität Mainz, Germany, December 2009.

Greiner, J.: Observations of GRB 080916C, colloquium, High-energy seminar, MPA-Garching, Germany, March 2009.

Greiner, J.: On the relation between supersoft X-ray sources and VY Scl stars: The cases of V504 Cen and VY Scl, contributed talk, Workshop on 'Supersoft X-ray sources', Villafranca, Spain, May 2009.

Greiner, J.: Swift discoveries on long-duration GRBs, invited talk, '5 yrs of Swift', State College, USA, November 2009.

Haberl, F.: Exploring the Surface of Isolated Neutron Stars with XMM-Newton, invited talk, XMM-Newton 10th Anniversary, Villafranca del Castillo, Madrid, Spain, December 2009.

Haberl, F.: Observations of Isolated Cooling Neutron Stars, invited talk, Nuclear Matter at High Density, International Workshop XXVII on Gross Properties of Nuclei and Nuclear Excitations, Hirschegg, Austria, January 2009.

Haberl, F.: X-ray spectroscopy of SN(R) 1987A with the XMM-Newton (and Chandra) grating spectrometers, invited talk, High Resolution X-ray spectroscopy Workshop, University College London, UK, March 2009.

Haerendel, G.: Chromospheric Evaporation via Alfvén Waves, contributed talk, NSO Workshop # 25 on 'Chromospheric Structure and Dynamics', Sunspot NM, USA, September 2009.

Haerendel, G.: Fundamental issues of auroral arc formation, invited talk, AGU Fall Meeting, San Francisco, USA, December 2009.

Haerendel, G.: How the Convection is driven in the Magnetosphere, invited talk, International Symposium on 'The Nonlinear Magnetosphere', Viña del Mar, Chile, January 2009.

Haerendel, G.: On the Potential Role of Alfvén Waves for Chromospheric Evaporation, colloquium, Space Sciences Laboratory, University of California, Berkeley, USA, April 2009.

Haerendel, G.: On the Potential Role of Alfvén Waves for Chromospheric Evaporation, colloquium, Lockheed-Martin Solar Astrophysics Laboratory, Palo Alto, Chile, April 2009.

Haerendel, G.: Small-scale Auroral Structures, contributed talk, ISSI Team Meeting on 'Auroral Small-and Meso-Scale Structures, Origin and Function', ISSI Bern, Switzerland, March 2009.

Haerendel, G.: The Poleward Arcs and the Inner Edge of the Plasma Sheet during Substorms, colloquium, University of California, Los Angeles, USA, April 2009.

Haerendel, G.: The Poleward Arcs and the Inner Edge of the Plasma Sheet during Substorms", colloquium, University of California, Berkeley, USA, April 2009.

- Harendel, G.: On the Downflows in Hedgerow Prominences, contributed talk, AGU Fall Meeting, San Francisco, USA, December 2009.
- Henze, M.: The first two transient supersoft X-ray sources in M 31 globular clusters and the connection to classical novae, contributed talk, The 14th North American Workshop on Cataclysmic Variables and Related Objects, University of Arizona, Tucson, USA, March 2009.
- Herrmann, S.: ASTEROID and VELA two ASICs for source and drain readout of DEPFET detectors for space applications, contributed talk, 7th International Meeting on Front-End Electronics, Montauk, USA, May 2009.
- Hicks, E.K.S.: High- z Galaxy Kinematics and Star Formation, invited talk, American Astronomical Society, Pasadena, California, USA, June 2009.
- Hicks, E.K.S.: The Nuclear Environments of Seyfert Galaxies, contributed talk, Physics of Galactic Nuclei, Ringberg Castle, Germany, June 2009.
- Isbary, G.: Safe low temperature argon plasma to decrease bacterial load on chronic wounds, contributed talk, 2nd International Conference on Plasma Medicine ICPM-II, San Antonio, USA, March 2009.
- Ivlev, A.: Charge-induced effects in complex (dusty) plasmas, colloquium, Institut d'Astrophysique Spatiale, Orsay, France, September 2009.
- Ivlev, A.: Electrorheological Complex Plasmas, invited talk, 36th IEEE International Conference on Plasma Science, San Diego, USA, June 2009.
- Ivlev, A.: Equilibrium and nonequilibrium phase transitions in binary complex plasmas, colloquium, University of Naples, Italy, June 2009.
- Ivlev, A.: Fluid phase transitions in binary complex plasmas, contributed talk, 12th Workshop on the Physics of Dusty Plasmas, Boulder, USA, May 2009.
- Jiang, K.: Controlled particle transport in a CCP RF Plasma chamber with striped electrode, contributed talk, 12th Workshop of the Physics of Dusty Plasmas, Boulder, USA, May 2009.
- Jiang, K.: Molecular dynamic simulation for particle removal experiments in a RF Plasma chamber with striped electrode, contributed talk, DSDP Workshop, Kiel, Germany, September 2009.
- Johnson, J. L.: Population III Star Clusters in the Reionized Universe, contributed talk, First Stars Science workshop, at Institute of Theoretical Astrophysics, University of Heidelberg, Germany, October 2009.
- Kanbach, G.: A Frontier and Challenge in Gamma-Ray Astronomy: The MeV Range, colloquium, Advanced Instrumentation Seminar, SLAC, Stanford University, Palo Alto, USA, September 2009.
- Kanbach, G.: Beyond the SWIFT/INTEGRAL and FERMI-LAT era: Classical MeV sources and experimental approach, contributed talk, ISAS Joint Gamma-Ray Mission Meeting 2009, Tokyo, Japan, February 2009.
- Kanbach, G.: Current Results from the Fermi Gamma-Ray Space Telescope, colloquium, University of Crete, Physics Department, Heraklion, Greece, June 2009.
- Kanbach, G.: Deciphering Pulsar Physics from High Energy Gamma-rays, invited talk, Integral workshop 'The Extreme sky: Sampling the Universe above 10 keV', Otranto, Italy, October 2009.
- Kanbach, G.: High Energy Pulsars: their role in astrophysics, multi-wavelength aspects, and implications for pulsar theory, invited talk, 7th AGILE Workshop, Frascati, Italy, September 2009.
- Kanbach, G.: Nuclear Deexcitation Lines and The Origin of sub-relativistic Cosmic Rays, invited talk, Fermi Symposium, Washington, USA, November 2009.
- Kanbach, G.: Pulsar Observations with the Fermi Large Area Telescope, contributed talk, Aspen 2009 Winter Conference on Astrophysics: "Thirty Years of Magnetars: New Frontiers", Aspen, USA, February 2009.
- Kanbach, G.: Tales of two Neutron Stars: Polarization of the Crab pulsar and Outbursts of the first optical magnetar Swift J1955+26, contributed talk, Aspen 2009 Winter Conference on Astrophysics: 'Thirty Years of Magnetars: New Frontiers', Aspen, USA, February 2009.
- Khochfar, S.: Cold Flows Driven Galaxy Properties at High- z , invited talk, UC Santa Cruz, USA, August 2009.
- Khochfar, S.: Merger Driven Galaxy Evolution, colloquium, Naval Science Institute Wahington DC, USA, April 2009.
- Khochfar, S.: The High- z Universe, colloquium, SISSA, Trieste, Italy, March 2009.
- Khochfar, S.: The Universe Beyond $z=2$, invited talk, CFA Harvard, Napa Valley, USA, February 2009.
- Khrapak, S.A.: Influence of a polarization force on dust acoustic waves, contributed talk, PK-3 Plus Symposium, Garching, Germany, October 2009.
- Khrapak, S.A.: Interparticle interactions in complex (dusty) plasmas, contributed talk, Soft Matter and Materials Physics in Space, Ringberg, Germany, September 2009.
- Khrapak, S.A.: On the charging of particles in plasmas, invited talk, 10th IPELS Workshop, Djurö, Sweden, June 2009.
- Khrapak, S.A.: Physics of ion-particle collisions and the ion drag force in complex plasmas, invited talk, International Symposium on Cutting Edge Plasma Physics, Trieste, Italy, August 2009.
- Khrapak, S.A.: Predicting crystallization in "real" complex (dusty) plasmas, invited talk, 10th Workshop on Fine Particle Plasmas, Toki, Japan, November 2009.
- Khrapak, S.A.: Recent progress in the theory of complex (dusty) plasmas, colloquium, Yokohama University, Japan, November 2009.
- Kimmel, N.: Experimental and theoretical study of the signal electron motion in fully depleted silicon, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.

- Kimmel, N.J.: Experimental and theoretical study of the signal electron motion in fully depleted silicon, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Klecker, B., et al: Multi-spacecraft observations: potential applications for 3D propagation modelling, contributed talk, ISSI Team Meeting on "Transport of Energetic Particles in the Inner Heliosphere", ISSI Bern, Switzerland, September 2009.
- Klecker, B., et al: Observation of high ionic charge states of iron at suprathermal energies, contributed talk, 31st Intern. Cosmic Ray Conf., Łódź, Poland, July 2009.
- Klecker, B.: Das Reich der Sonne - unsere kosmische Heimat, public talk, Tag der offenen Tür, MPE, October 2009.
- Klecker, B.: High ionic charge states of iron at suprathermal energies: a tracer for local acceleration of ICME-related solar wind, contributed talk, SOHO-22 / STEREO-3 Workshop, Bournemouth, UK, April 2009.
- Klecker, B.: Multi-spacecraft observations of SEPs: Applications for 3D Propagation Modelling, contributed talk, STEREO Science Working Group Meeting #20, Meredith, NH, USA, October 2009.
- Klecker, B.: Pickup helium observations with STEREO PLASTIC A & B, contributed talk, STEREO Science Working Group #19, Pasadena, USA, February 2009.
- Klecker, B.: Pickup helium observations with STEREO PLASTIC A & B, contributed talk, CELIAS/SOHO and PLASTIC/STEREO Workshop, Concord, NH, USA, April 2009.
- Klecker, B.: PLASTIC / STEREO in-flight efficiency: using single rates to infer efficiencies for He, contributed talk, CELIAS/SOHO and PLASTIC/STEREO Workshop, Concord, NH, USA, April 2009.
- Komossa, S.: Cosmological Evolution of Supermassive Black Holes, invited talk, Physics of Galactic Nuclei, Ringberg, Germany, June 2009.
- Komossa, S.: Electromagnetic Signatures of Binaries and Recoiling Black Holes, invited talk, Massive Black Hole Binaries and their Coalescence in Galactic Nuclei, Kavli Institute for Astronomy and Astrophysics, Beijing University, China, July 2009.
- Komossa, S.: Evolution of SMBHs across Cosmic History, invited talk, National Astronomical Observatories Beijing, China, July 2009.
- Komossa, S.: Highly Accreting Actives Galaxies, Giant Flares, and Superkicks, colloquium, Institute of Astronomy, University of Sydney, Australia, March 2009.
- Komossa, S.: Hunting Supermassive Black Holes - a Journey through the Universe, colloquium, Shandong University, Weihai, Weihai, China, July 2009.
- Komossa, S.: Im Weltall lauern Schwarze Löcher überall. Schwarzen Löchern in Galaxienkernen auf der Spur, public talk, Vortragsreihe Physik. Max-Planck-Gymnasium Böblingen, Germany, July 2009.
- Komossa, S.: Implications of Gravitational Wave Recoil for Unified Models of AGN, contributed talk, AGN Mini-workshop, Garching, Germany, January 2009.
- Komossa, S.: Massive Black Holes Near and Far - a Journey through Space and Time, public talk, National Astronomical Observatories Beijing, China, July 2009.
- Komossa, S.: Observational Signatures of Recoiling Black Holes, and Consequences for Unified Models of AGN, contributed talk, IAU General Assembly, IAU Symposium 267: Evolution of Galaxies and Central Black Holes - Feeding and Feedback, Rio de Janeiro, Brazil, August 2009.
- Komossa, S.: Observing the Sites of Massive Binaries and Recoiling Black Holes - Electromagnetic Signatures, invited talk, Matter and Electromagnetic Fields in Strong Gravity. University of Maryland, USA, August 2009.
- Konopka, U.: Complex plasma experiments performed in the newly designed "PlasmaLab" discharge chamber, contributed talk, 12th Workshop on the Physics of Dusty Plasmas, Boulder, USA, May 2009.
- Koppenhoefer, J.: Ongoing Planet Searches at MPE, invited talk, RoPACS kick-off meeting, Madrid, Spain, January 2009.
- Koppenhoefer, J.: Spectroscopic follow-up of POTS-C1 & WTS lightcurve analysis, invited talk, RoPACS annual network workshop, La Laguna, Tenerife, Spain, November 2009.
- Koppenhoefer, J.: The OmegaCam Transit Survey, contributed talk, Jenam 2009 - European Week of Astronomy and Space Science, Hatfield, UK, April 2009.
- Krause, M.: Galaxy clusters, Jets & Magnetic Fields, colloquium, MPI für Radioastronomie, Bonn, Germany, March 2009.
- Krause, M.: Radiation pressure and turbulence in AGN tori, contributed talk, Physics of Galactic Nuclei, Ringberg, Germany, June 2009.
- Krause, M.: Radiation pressure and turbulence near active galactic nuclei, contributed talk, Annual Fall Meeting of the Astronomische Gesellschaft (AG), Potsdam, Germany, September 2009.
- Krause, M.: Schwarze Löcher, public talk, Universe Cluster/Dante Gymnasium, Munich, Germany, November 2009.
- Krause, M.: The power of radio galaxies: interaction with hot & cold gas, invited talk, Powerful Radio Galaxies: Triggering and Feedback, Leiden, The Netherlands, November 2009.
- Kurk, J.: H-alpha emitters in a forming cluster at $z=1.6$ in the GMSS field, contributed talk, Galaxy Clusters in the Early Universe, Pucon, Chile, November 2009.
- Lacerda, P.: TNOs are cool: A Survey of the Transneptunian Region, invited talk, European Week of Astronomy and Space Science (RAS NAM 2009 & EAS JENAM 2009), Hertfordshire, UK, April 2009.
- Lang, M.: Observation of Cosmic Nuclear Gamma-Ray

- Lines, contributed talk, Nuclear Physics in Astrophysics IV, Frascati, Italy, June 2009.
- Lauf, T.: Performance and spectroscopic behaviour of DePFET Macropixels, contributed talk, European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Lauf, T.: Performance and spectroscopic behaviour of DePFET Macropixels, contributed talk, IEEE Nuclear Science Symposium, Orlando, USA, October 2009.
- Lauf, T.: Performance of the DEPFET Macropixel based focal plane detectors for the MIXS instrument on BepiColombo, contributed talk, IEEE Nuclear Science Symposium, Orlando, USA, October 2009.
- Li, Y.: Dust removal in radio-frequency plasmas by a traveling potential modulation, contributed talk, Plasmas in the Laboratory and in the Universe: interactions, patterns, and turbulence, Como, Italy, December 2009.
- Lutz, D.: First Results from PACS deep surveys, invited talk, Herschel SDP workshop, Madrid, Spain, December 2009.
- Meidinger, N.: CCD Detectors for Spectroscopy and Imaging of X-rays with the eROSITA Space Telescope, contributed talk, SPIE optics & photonics, San Diego, USA, August 2009.
- Meidinger, N.: Development of the focal plane PNCCD camera system for the X-ray space telescope eROSITA, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Meidinger, N.: Irradiation experiments of MPI HLL, colloquium, Maier-Leibnitz-Laboratorium der Universität München und der Technischen Universität München, Garching, Germany, January 2009.
- Meidinger, N.: Irradiation of satellite-based detectors, public talk, MLL Tandem Science Day, Garching, Germany, May 2009.
- Merloni, A.: 'A synthetic view of AGN evolution and supermassive black holes growth', invited talk, 'Accretion and ejection in AGN: A global view', Como, Italy, June 2009.
- Merloni, A.: 'A synthetic view of AGN evolution and Supermassive black holes growth', invited talk, "Powerful radio galaxies: triggering and feedback", Leiden, The Netherlands, November 2009.
- Merloni, A.: 'How did Supermassive black holes grow? Downsizing, feedback and co-evolution with the host galaxies', colloquium, INAF- Observatory of Brera and Merate, Merate, Italy, October 2009.
- Merloni, A.: 'On the redshift evolution of the BH-galaxy scaling relations: new results from the zCOSMOS survey', colloquium, Institute of Astronomy, Cambridge, Cambridge, United Kingdom, November 2009.
- Merloni, A.: Where the Wild Things Are: Observational Constraints on Black Holes' Growth and Energy Release, invited talk, 'The Monsters Fiery Breath: Feedback in galaxies, groups, and clusters', Madison, WI, USA, June 2009.
- Mihatsch, S.: Exploring the Parameter Space of a Spatio-Temporal Coupled System, contributed talk, MPE Workshop Medical Physics, Ringberg, Germany, October 2009.
- Monetti, R.: Analysing filter-pad images for the assessment of bacterial load, contributed talk, MPE Workshop on Medical Physics, Ringberg, Germany, October 2009.
- Monetti, R.: Assessing the degree of synchronization in time series using symbolic representations, contributed talk, ICCSA 2009, The 3rd International Conference on Complex Systems and Applications, Le Havre, France, June/July 2009.
- Monetti, R.: Quantifying Bone Strength using Scaling Indices, Minkowski Functionals and their Combination, contributed talk, MPE Workshop on Medical Physics, Ringberg, Germany, October 2009.
- Morfill G.: The Munich Plasma Medicine Project: Result and Current Status, invited talk, 2nd Int. Conf. on Plasma Medicine, San Antonio, USA, March 2009.
- Morfill G.: Dusty Plasmas – an old new subject, invited talk, Workshop on the Physics of Dusty Plasmas, Boulder, USA, May 2009.
- Morfill G.: Complex Plasmas – New Developments, invited talk, European Physical Society, Sofia, Bulgaria, July 2009.
- Morfill G.: Strong coupling phenomena at the particle level – Observations under Microgravity, invited talk, ELGRA 2009 Biannual Symposium, Bonn, September 2009.
- Morfill G.: Complex Plasmas – Probing Strong Coupling Phenomena at the most Elementary Level, invited talk, PNP 13, Chernogolovka, Russia, September 2009.
- Morfill G.: Study of Critical Phenomena with Complex Plasmas, invited talk, Int. Conf. On Plasmas in the Laboratory and the Universe, Como, Italy, December 2009.
- Müller, T.G.: Kleinplaneten in unserem Sonnensystem: Die Welt jenseits der Planeten. Oder: Warum Ceres und Pluto keine richtigen Planeten sind, public talk, Erich-Regener-Vortragsreihe, MPS, Lindau, Germany, January 2009.
- Müller, T.G.: Thermophysical properties of 162173 (1999 JU3) and 4015 Wilson-Harrington based on the experience from 25143 Itokawa, contributed talk, International Symposium Marco Polo and other Small Body Sample Return Missions, Paris, France, May 2009.
- Müller, T.G.: TNOs are cool: A Survey of the Transneptunian Region, contributed talk, Herschel Science Demonstration Phase Initial Results Workshop, Madrid, Spain, December 2009.
- Müller, T.G.: Was gibt es Neues im Sonnensystem? Infrarotastronomie & Herschel, public talk, Walther-Rathenau-Gymnasium, Schweinfurt, Germany, November 2009.
- Müller, T.G.: Was gibt es Neues im Sonnensystem?, public talk, Realschule Neubiberg, Germany, July 2009.
- Müller, T.G.: Was gibt es Neues im Sonnensystem?, pu-

- blic talk, Tag der offenen Tür am MPE, Garching, Germany, October 2009.
- Nasiroglu, I.: OPTIMA (Optical Pulsar Timing Analyzer) Observations, contributed talk, 3rd Astrophysics of Neutron Stars Workshop, Istanbul, TURKEY, September 2009.
- Nosenko, T.: Designing 'plasma cocktail' for chronic wound disinfection, contributed talk, 2nd International Conference on Plasma Medicine ICPM-II, San Antonio, USA, March 2009.
- Nosenko, T.: Plasma-Generated Ultraviolet Radiation and Its Effects on Human Cells, contributed talk, Plasma-Tissue Interactions, Greifswald, Germany, February 2009.
- Nosenko, V.: New mechanism of cluster rotation in complex (dusty) plasmas, contributed talk, 36th International Conference on Plasma Science, San Diego, California, USA, May/June 2009.
- Nosenko, V.: New method of particle manipulation by rotating electric fields in complex (dusty) plasmas, contributed talk, 1 March 2010 10th Workshop on Fine Particle Plasmas, Toki, Japan, November 2009.
- Nosenko, V.: Observation of frequency cutoff for self-excited dust acoustic waves, contributed talk, 51st Annual Meeting of the Division of Plasma Physics of the American Physical Society, Atlanta, Georgia, USA, November 2009.
- Nosenko, V.: Rotating electric fields in complex (dusty) plasmas, contributed talk, 12th Workshop on the Physics of Dusty Plasmas, Boulder, Colorado, USA, May 2009.
- Nowak, N.: Black holes in the pseudobulges NGC 3368 and NGC 3489, contributed talk, Kick-off meeting for the third period of the SPP 1177, Bad Honnef, Germany, May 2009.
- Noyola, E.: Intermediate mass black holes in star clusters: are they there?, colloquium, ESO, Santiago, Chile, June 2009.
- Noyola, E.: Intermediate mass black holes in star clusters: are they there?, colloquium, University of Bologna, Italy, April 2009.
- Noyola, E.: Intermediate mass black holes in star clusters: are they there?, colloquium, University of Central Lancashire, Preston, UK, May 2009.
- Noyola, E.: Internal Kinematics for the Globular Cluster M54., invited talk, Formation and Evolution of Globular Clusters, KITP, Santa Barbara, USA, January 2009.
- Noyola, E.: Kinematical evidence for an intermediate-mass black hole in M54, contributed talk, Joint Subaru/Gemini Science Conference, Kyoto, Japan, May 2009.
- Ott, T.: Das schwarze Loch im Zentrum unserer Milchstrasse, public talk, Einstein-Tag Jena, Germany, September 2009.
- Phleps, S.: An MoU between the PS1 Science Consortium and the Planck Science Team, invited talk, Pan-STARRS Science Consortium Meeting, Boston, USA, August 2009.
- Phleps, S.: Cosmology with the Sloan Digital Sky Survey III - BOSS: Baryon Oscillation Spectroscopic Survey, invited talk, SDSS-III Collaboration Meeting 2009, Princeton, USA, June 2009.
- Pierini, D.: Dust at low and high redshifts, invited talk, MPE GRB Science Day, Garching, Germany, May 2009.
- Pierini, D.: Emission properties of (interstellar) dust, invited talk, International workshop on 'Current problems in extragalactic dust', Copenhagen, Denmark, June 2009.
- Pietsch, W.: X-ray emission from optical novae in M 31, invited talk, Supersoft X-ray sources - new developments, Madrid, Spain, May 2009.
- Poglitsch, A.: Herschel - Europas neues Weltraumteleskop für das kalte Universum, colloquium, Physikalisches Institut Universität Marburg, Germany, November 2009.
- Poglitsch, A.: Herschel - Europas neues Weltraumteleskop für das kalte Universum, colloquium, Raumfahrt-technik TU München, Garching, Germany, November 2009.
- Poglitsch, A.: Herschel - Europas neues Weltraumteleskop, public talk, Sternwarte Winzer, Niederaltaich, Germany, October 2009.
- Poglitsch, A.: Herschel/PACS Status and Performance, invited talk, Herschel Science Demonstration Phase Initial Results Workshop, Boadilla del Monte, Spain, December 2009.
- Poglitsch, A.: Initial Results with Herschel/PACS, public talk, ESA Press Conference, Villafranca, Spain, December 2009.
- Poglitsch, A.: The Herschel Space Observatory, invited talk, Deutscher Luft- und Raumfahrtkongress, Aachen, Germany, September 2009.
- Porro, M.: ASTEROID: a 64 Channel ASIC for Source Follower Readout of DEPFET Arrays for X-Ray Astronomy, contributed talk, Frontier Detectors for Frontier Physics, Isola d'Elba, Italy, May 2009.
- Porro, M.: DEPFET Sensor with Signal Compression: a Large Format X-ray Imager with Mega-Frame Readout Capability for the European XFEL Detector concept and readout electronics, contributed talk, 7th International Meeting on Front-End Electronics, Montauk, USA, April 2009.
- Porro, M.: DEPFET Sensor with Signal Compression: a Large Format X-ray Imager with Mega-Frame Readout Capability for the European XFEL, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Pustyl'nik, M.: Effect of high-voltage nanosecond pulses on the dust particles in complex plasmas, contributed talk, 8th Workshop on Frontiers in Low Temperature Plasma Diagnostics, Blansko, Czech Republic, April 2009.
- Pustyl'nik, M.: Effect of the levitating microparticle cloud on radiofrequency argon plasma, contributed talk, Plasmas in the Laboratory and in the Universe: Interactions, Patterns, and Turbulence, Como, Italy, December 2009.

- Rabien, S.: ARGOS the LBT Laser AO Facility, contributed talk, AO for ELT, Paris, France, June 2009.
- Räth, C.: Assessing and Selecting Texture Measures for Quantifying the Trabecular Bone Using Surrogates, invited talk, MPE Workshop on Medical Physics, Ringberg, Germany, October 2009.
- Räth, C.: Comparing the sensitivity of wavelets, Minkowski functionals and scaling indices to higher order correlations in MR images of the trabecular bone using surrogates, contributed talk, SPIE Conference on Medical Imaging, Orlando, USA, February 2009.
- Räth, C.: Probing scale dependent non-Gaussianities using surrogates, invited talk, MPE workshop on new paths in studies of galaxy clusters, Oberstdorf, Germany, September 2009.
- Räth, C.: Quantitative characterisation of complex structures using nonlinear methods, invited talk, AMGEN GmbH, Munich, Germany, March 2009.
- Räth, C.: Role of trabecular microfractures in failure of human vertebrae estimated by the finite element method, contributed talk, SPIE Conference on Medical Imaging, Orlando, USA, February 2009.
- Rovilos, M.: The Lockman Hole multi-wavelength survey, contributed talk, The 9th Hellenic Astronomical Conference, Athens, Greece, September 2009.
- Saglia, R.: The SINFONI Black Hole Survey, colloquium, Accademia dei Lincei, Rome, Italy, April 2009.
- Saglia, R.: The SINFONI Black Hole Survey, invited talk, Jenam 2009, "The local volume: constraints on galaxy formation and evolution", Hatfield, UK, April 2009.
- Saintonge, A.: Tracing dusty star formation through redshift and environment with Spitzer/MIPS imaging, colloquium, Observatoire de Sauverny, Geneva, Switzerland, March 2009.
- Saintonge, A.: Tracing dusty star formation through redshift and environment with Spitzer/MIPS imaging, contributed talk, National Radio Astronomy Observatory, Socorro, NM, USA, February 2009.
- Saintonge, A.: Tracing dusty star formation through redshift and environment with Spitzer/MIPS imaging, contributed talk, Texas A&M University, College Station, TX, USA, February 2009.
- Sanchez, A.: Cosmological parameter constraints from SDSS luminous red galaxies: a new treatment of large scale structure, contributed talk, MPE science coffee highlight talk, Garching, Germany, November 2009.
- Sanchez, A.: Cosmological parameters constraints from the full shape of the two-point correlation function, contributed talk, Excellence cluster Research Area E Science, Garching, Germany, November 2009.
- Sanchez, A.: Cosmological parameters from the SDSS-DR6 LRG correlation function, contributed talk, Annual Fall meeting of the Astronomical Society, Potsdam, Germany, September 2009.
- Schartmann, M.: Models of gas and dust tori in Seyfert Galaxies, colloquium, Astronomical Colloquium, Kiel, Germany, February 2009.
- Schartmann, M.: Obscuring and feeding supermassive black holes with evolving nuclear star clusters, contributed talk, Physics of Galactic Nuclei, Workshop, Ringberg/Tegernsee, Germany, June 2009.
- Schartmann, M.: Physics of Galactic Nuclei, contributed talk, HLRB Results Workshop, Garching, Germany, December 2009.
- Scholer, M.: Progress in plasma physics by numerical simulation: Collisionless shocks, invited talk, Modern Challenges in Nonlinear Plasma Physics, Thessaloniki, Greece, June 2009.
- Scholer, M.: Shock reformation: Numerical simulations versus Cluster observations, invited talk, ISSI Workshop on High Mach Number Shocks, Bern, Switzerland, April 2009.
- Scholer, M.: What key results on shock dynamics are obtained from numerical simulations?, invited talk, 9th International School for Space Simulations, Versailles, France, July 2009.
- Schwabe, M.: Bubbles, Blobs, and Surface Cusps in Complex Plasmas, contributed talk, 12th Workshop of the Physics of Dusty Plasmas, Boulder, CO, USA, May 2009.
- Schwabe, M.: Bubbles, Blobs, and Surface Cusps in Complex Plasmas, contributed talk, Diagnostics and Simulation of Dusty Plasmas II, Kiel, Germany, September 2009.
- Schwabe, M.: Bubbles, blobs, and surface cusps in fluid complex plasmas, contributed talk, International Workshop on Bubble and Drop Interfaces, Thessaloniki, Greece, September 2009.
- Schwabe, M.: Vom Nutzen der Bibliothek, invited talk, XXXII. Bibliothekstagung der Max-Planck-Gesellschaft, Garching, Germany, May 2009.
- Shimizu, S.: Synthesis of water ice particles in a plasma chamber, contributed talk, 10th Workshop on Fine Particle Plasmas, Toki, Japan, November 2009.
- Shimizu, T.: Disinfection of wound by low temperature atmospheric plasma, invited talk, The 22nd Symposium on Plasma Science for Materials, Tokyo, Japan, June 2009.
- Shimizu, T.: Small microwave plasma torch for disinfection, contributed talk, Second International Conference on Plasma Medicine, San Antonio, USA, March 2009.
- Sidorenko, I.: Comparison and combination of different methods (FEM, SIM, MF) for description of global and local features of the trabecular bone network, contributed talk, XIth Congress of the International Society of Bone Morphometry (ISBM), Zell am See, Austria, May 2009.
- Sidorenko, I.: Quantifying Bone Strength Using Finite Element Models (FEM), contributed talk, MPE Workshop on Medical Physics, Ringberg, Germany, October 2009.

- Stefanescu, A.: High Time Resolution Astronomy with OPTIMA. Observations of SWIFT "J195509.6+261406", colloquium, Astronomiska Seminariet i Lund, Sweden, May 2009.
- Stefanescu, A.: The IXO Wide-Field Imager, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Steinle, H.: Centaurus A at Hard X-rays and Soft Gamma-rays, invited talk, The Many Faces of Centaurus A, Sydney, Australia, June 2009.
- Stiele, H.: Supersoft sources in M 31: Comparing the XMM-Newton deep survey, ROSAT and Chandra catalogues, contributed talk, Supersoft X-ray Sources - New Developments, Villafranca del Castillo, Madrid, Spain, May 2009.
- Strong, A.: Cosmic-ray studies with GALPROP, invited talk, Testing Astroparticle with the New GeV/TeV Observations, Paris, France, May 2009.
- Strong, A.: Galactic diffuse gamma rays: experimental status, invited talk, ENTApP Dark Matter Workshop 2009, CERN, Geneva, Switzerland, February 2009.
- Strong, A.: Galactic diffuse gamma-ray emission, invited talk, Gamma-ray diffuse emission meeting in Zürich, ITP, Switzerland, November 2009.
- Strong, A.: Interstellar gamma-rays: first large-scale results from Fermi-LAT, contributed talk, 31st International Cosmic Ray Conference, Lodz, Poland, July 2009.
- Strong, A.: The cosmic-ray, gamma-ray, synchrotron, B connection in the Galaxy, contributed talk, Ringberg Workshop on UHECR and Magnetic Fields, Ringberg Castle, Germany, February 2009.
- Strüder, L.: MPI – HLL Science Projects at the Max-Planck Institut für extraterrestrische Physik, colloquium, Project Review, Munich, Germany, October 2009.
- Strüder, L.: PNCCDs for Synchrotron Applications, invited talk, Synchrotron ELETTRA, Trieste, Italy, September 2009.
- Strüder, L.: Detector Developments in the MPI Semiconductor Laboratory, contributed talk, MPG-Riken Bilateral Conference, Munich, Germany, January 2009.
- Strüder, L.: Detectors for Photon Science, invited talk, ERSF, Grenoble, France, February 2009.
- Strüder, L.: First CAMP results – imaging spectroscopy at LCLS, colloquium, SLAC, Stanford, USA, December 2009.
- Strüder, L.: German contributions to IXO, contributed talk, workshop at DLR, Bonn, Germany, March 2009.
- Strüder, L.: Halbleiterdetektoren – im Himmel und auf Erden, colloquium, Weierstraß Institut für numerische Analysis und Stochastik, Berlin, Germany, November 2009.
- Strüder, L.: High Speed Imaging Spectrometers for FLASH, LCLS, SCSS and XFEL, invited talk, Gordon Research Conference, Waterville, USA, August 2009.
- Strüder, L.: High Speed X-ray Imagers – from the Infrared to Gamma rays, invited talk, Goddard Space Flight Center, Greenbelt, USA, August 2009.
- Strüder, L.: Imaging in Astrophysics, invited talk, 1st Int. Conf. on Frontiers in Diagnostic Technologies (ICFDT), Frascati, Italy, November 2009.
- Strüder, L.: IXO's technical readiness level, contributed talk, ESTEC, Noordwijk, Netherlands, March 2009.
- Strüder, L.: Micrometeorites impacts on IXO, contributed talk, IXO Workshop, Cambridge, USA, January 2009.
- Strüder, L.: pnCCDs for high speed X-ray imaging at X-ray FELs, invited talk, European XFEL Detector Advisory Committee Meeting, Munich, Germany, October 2009.
- Strüder, L.: Siliziumdriftdetektoren – Neue Entwicklungen und interessante Anwendungen, colloquium, Bruker-AXS Kolloquium, Berlin, Germany, June 2009.
- Strüder, L.: Single Photon Imaging in the Optical, invited talk, ESO Detector Workshop, Garching, Germany, October 2009.
- Strüder, L.: Stray light, count rate capabilities, calibration, and other issues on IXO, contributed talk, IXO Workshop, Cambridge, USA, January 2009.
- Strüder, L.: The IXO WFI, HXI and HTRS, invited talk, Suzaku/IXO conference, Otaru, Japan, July 2009.
- Strüder, L.: The IXO Wide Field Imager, contributed talk, 1st WFI consortium Meeting, Garching, Germany, June 2009.
- Strüder, L.: The Wide Field Imager aboard IXO, invited talk, IXO Workshop, Cambridge, USA, January 2009.
- Strüder, L.: XMM-Newton - 10 years after, invited talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.
- Strüder, L.: X-ray imaging and spectroscopy techniques for space missions, colloquium, Imperial College, London, Great Britain, April 2009.
- Sturm, E.: First Results from SHINING, invited talk, Herschel SDP Workshop, Madrid, Spain, December 2009.
- Sturm, E.: Spitzer spectroscopy of local LIRGs/ULIRGs (QUEST), invited talk, The Space Infrared Telescope for Cosmology & Astrophysics - Revealing the Origins of Planets and Galaxies, Oxford, UK, July 2009.
- Sturm, E.: Spitzer's mid-infrared view on dusty galaxy evolution, invited talk, Hunting for the Dark: The Hidden Side of Galaxy Formation, Qawra, Malta, October 2009.
- Sütterlin, K.R.: Dissipative Dark Solitons in the PK4 Experiment, contributed talk, ELGRA 2009 Symposium, Bonn, Germany, September 2009.
- Sütterlin, K.R.: Non Equilibrium Phase Transition in Binary Complex Plasmas, invited talk, 3rd MPE - UL collaboration meeting on complex and technological plasmas, Liverpool, England, March 2009.
- Sütterlin, K.R.: Phase Separation in Complex Plasma. Deriving the Interparticle Potential from Large Scale Par-

ticle Behavior, contributed talk, 10th Workshop on Fine Particle Plasmas, Toki, Japan, December 2009.

Sütterlin, K.R.: Structural Analysis Using Minkovsky Functionals, invited talk, Yokohama Complex Plasma Seminar, Yokohama, Japan, December 2009.

Tacconi, L.J.: CO Observations of High- z Galaxies, invited talk, The Origin of Galaxies: Lessons from the Distant Universe, Obergurgl, Austria, December 2009.

Tacconi, L.J.: Dynamics and Evolution of Star Forming Galaxies at $z=1-3$, invited talk, ESO Day at JENAM 2009, Hatfield, UK, April 2009.

Tacconi, L.J.: Dynamics and Evolution of Star Forming Galaxies at $z=1-3$, invited talk, SFR@50: Filling the Cosmos with Stars, Spineto Abbey, Sarteano, Italy, July 2009.

Tacconi, L.J.: Gas Contents of Star Forming Galaxies from $z=1-3$, invited talk, Napa Galaxy Evolution Workshop, Napa, California, USA, February 2009.

Tacconi, L.J.: High Gas Fractions in Star Forming Galaxies at $z=1-3$, invited talk, Ringberg Workshop on Gaseous Evolution of Galaxies, Ringberg Castle, Germany, November 2009.

Tacconi, L.J.: High Gas Fractions in Star Forming Galaxies at $z=1-3$, invited talk, Santa Cruz Galaxy Evolution Workshop 2009, Santa Cruz, California, USA, August 2009.

Tacconi, L.J.: ISM and Galaxy Evolution - the ALMA View, invited talk, ALMA and ELTs: A Deeper, Finer View of the Universe, ESO, Garching, Germany, March 2009.

Tacconi, L.J.: Molecular Gas in Galaxies in the $z=1-3$ Star Forming Epoch, invited talk, IRAM 30th Anniversary Celebration, Grenoble, France, September 2009.

Tacconi, L.J.: Recent Results on $z=1-2$ ('Normal') Star Forming Galaxies, colloquium, Astronomy Department, University of California, Berkeley, USA, February 2009.

Thoma, M.H.: Dusty Plasmas in Microgravity, invited talk, Diagnostics and Simulation of Dusty Plasmas II, Kiel, Germany, September 2009.

Thoma, M.H.: Forschen und Leben in der Schwerelosigkeit, public talk, Eröffnungsvortrag der 12. Buchloer Astronomietage, Germany, September 2009.

Thoma, M.H.: Forschen und Leben in der Schwerelosigkeit, public talk, Liebigschule, Giessen, Germany, November 2009.

Thoma, M.H.: Physics of the Quark-Gluon Plasma, colloquium, Universität Kiel, Germany, June 2009.

Thoma, M.H.: Plasma Crystal Experiments in Microgravity, invited talk, ESA Parabolic Flight Symposium, Noordwijk (ESTEC), The Netherlands, October 2009.

Thoma, M.H.: Recent Complex Plasma Experiments in a DC Discharge, contributed talk, 12th Workshop on the Physics of Dusty Plasmas, Boulder, USA, May 2009.

Thoma, M.H.: Stringfluids in PK-4, invited talk, Complex

Plasma Meeting, University of Liverpool, UK, March 2009.

Thoma, M.H.: Ultrarelativistic Electron-Positron Plasma, colloquium, University of Barcelona, Spain, February 2009.

Thomas, H.M.: Complex Plasma Research on the International Space Station, invited talk, 4th China-Germany on Microgravity and Space Life Sciences, Shanghai, China, June 2009.

Thomas, H.M.: Komplexe Plasmen: Von Plasmaphysik zu interdisziplinärer Forschung, colloquium, ZARM - Center of Applied Space Technology and Microgravity, Bremen, Germany, July 2009.

Thomas, H.M.: Lane Formation in Driven Binary Complex Plasmas on the ISS, contributed talk, 12th Workshop on the Physics of Dusty Plasmas, Boulder, USA, May 2009.

Thomas, H.M.: PK-3 Plus – Fundamental Research in Complex Plasmas on the International Space Station, contributed talk, ELGRA Biennial Symposium and General Assembly "In the Footsteps of Columbus", Bonn, Germany, September 2009.

Thomas, J.: Dark matter density, orbital structure and formation of early-type galaxies, contributed talk, European Week of Astronomy and Space Science, incorporating RAS NAM 2009 and EAS JENAM 2009, Hatfield, UK, April 2009.

Thomas, J.: Dynamical models of baryonic and dark matter in elliptical galaxies, contributed talk, Unveiling the Mass: Extracting and Interpreting Galaxy Masses, Kingston, Ontario, Canada, June 2009.

Thomas, J.: Riesige Schwarze Löcher in den Zentren von Galaxien, public talk, Berliner Planetarium und Sternwarte Wilhelm-Foerster, Berlin, Germany, October 2009.

Thomas, J.: Schwarzschild modelling of elliptical galaxies and their black holes, invited talk, Annual Fall Meeting of the Astronomische Gesellschaft - Deciphering the Universe through Spectroscopy, Potsdam, Germany, September 2009.

Tiedemann, L.: Röntgenastronomie mit Kleinsatelliten, colloquium, Institut für Raumfahrtssysteme, Stuttgart, Germany, July 2009.

Treis, J.: DEPFET based Instrumentation for the MIXS Focal Plane on BepiColombo, contributed talk, SPIE optics & photonics, San Diego, USA, August 2009.

Treis, J.: MIXS on BepiColombo and its DEPFET based Focal Plane Instrumentation, contributed talk, 11th European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2009.

Treis, J.: The DEPFET based Low Energy Detector Array on SIMBOL-X, contributed talk, SPIE optics & photonics, San Diego, USA, August 2009.

Treis, J.: The Wide Field Imager for the International X-ray Observatory, contributed talk, SPIE optics & photonics, San Diego, USA, August 2009.

- Trümper, J.: Das aufregende Leben der Sterne nach ihrem Tod, public talk, 12. Ingolstädter Astronomietage, Ingolstadt, Germany, January 2009.
- Trümper, J.: Die Entstehung der chemischen Elemente im Kosmos, public talk, Sternfreunde Hamburg-Harburg, Germany, August 2009.
- Trümper, J.: Fallback Disk Models for the Hard X-Ray Emission from AXPs and SGRs, colloquium, University of Heraklion, Kreta/Greece, October 2009.
- Trümper, J.: Franco Pacini 70, invited talk, Workshop on Pulsars in their Diversity, Elba, Italy, June 2009.
- Trümper, J.: Laudatio auf Harald Lesch, public talk, Die Nürnberger Astronomische Gesellschaft verleiht die Verdienstmedaille "Bene Merenti De Astronomia Norinbergensi" in der Stufe Gold an Professor Harald Lesch für seine Verdienste als einer der bedeutendsten Wissenschaftsmultiplikatoren Deutschlands, Nürnberg, Germany, January 2009.
- Trümper, J.: Neue Erkenntnisse der Röntgenastronomie - Supernovae und Neutronensterne, invited talk, Jubiläumskongress des Deutschen Vereins zur Förderung des mathematischen und naturwissenschaftlichen Unterrichts (MNU), Regensburg, Germany, April 2009.
- Trümper, J.: Neue Erkenntnisse der Röntgenastronomie - Supernovae und Neutronensterne, invited talk, Tag der Sächsischen Schulastronomie, Dresden, Germany, April 2009.
- Trümper, J.: Pulsars and Isolated Neutron Stars, invited talk, Neutron Star-Gamma Ray Burst Conference, Cairo/Alexandria, Germany, March 2009.
- Trümper, J.: Rüdiger Staubert 70 - Unsere 40 Jahre mit Neutronensterne, invited talk, IAAT-Kolloquium zum 70. Geburtstag von Professor Rüdiger Staubert, Tübingen, Germany, March 2009.
- Trümper, J.: The High Energy Emission of AXPs and SGRs, invited talk, 3rd Astrophysics of Neutron Star Workshop, Istanbul, Turkey, September 2009.
- Trümper, J.: The Physical Properties of Neutron Stars, invited talk, 3rd Astrophysics of Neutron Star Workshop, Istanbul, Turkey, August 2009.
- Trümper, J.: The Physical Properties of Neutron Stars, invited talk, Annual Meeting of the Hellenic Astronomical Society, Athens, Greece, September 2009.
- Trümper, J.: The Physics of Neutron Stars, invited talk, Neutron Star-Gamma Ray Burst Conference, Cairo/Alexandria, Egypt, March 2009.
- van Dishoeck, E.F.: ALMA: a supersharper view on galaxy-, star- and planet-forming regions, invited talk, University of Groningen, The Netherlands, October 2009.
- van Dishoeck, E.F.: Astrochemistry with IRAM, invited talk, To the edge of the Universe: 30 yr IRAM, Grenoble, France, September 2009.
- van Dishoeck, E.F.: Chemistry during star- and planet formation, invited talk, Astrochemistry symposium; 42nd IUPAC congress, Glasgow, UK, August 2009.
- van Dishoeck, E.F.: Chemistry in evolving protoplanetary disks, colloquium, Royal Observatory Edinburgh, UK, April 2009.
- van Dishoeck, E.F.: Chemistry in protostellar and protoplanetary regions, colloquium, Dept. of Astronomy, University of Illinois, Urbana, USA, June 2009.
- van Dishoeck, E.F.: Complex organic molecules in star- and planet-forming regions, invited talk, StScl symposium: The search for life in the Universe, Baltimore, USA, May 2009.
- van Dishoeck, E.F.: Chemistry of protoplanetary disks, invited talk, From circumstellar disks to planetary systems: ESO-MPE-MPA-USM workshop, Garching, Germany, November 2009.
- van Dishoeck, E.F.: Disks and their evolution: future prospects, invited talk, From Disks to planets: learning from starlight, Leiden, The Netherlands, March 2009.
- van Dishoeck, E.F.: Evolving protoplanetary disks, colloquium, Dept. of Astrophysics, Princeton University, USA, May 2009.
- van Dishoeck, E.F.: First results from the WISH key program, contributed talk, Herschel science demonstration phase results workshop, Madrid, Spain, December 2009.
- van Dishoeck, E.F.: From molecules to planets: SACIRR colloquium, colloquium, University of Edinburgh, UK, April 2009.
- van Dishoeck, E.F.: Spitzer lectures: 1. Basic molecular processes; 2. Chemistry in star-forming regions; 3. Chemistry in circumstellar disks, colloquium, Dept. of Astrophysics, Princeton University, USA, May 2009.
- van Dishoeck, E.F.: Star- and planet formation in our Galaxy: ALMA-ELT synergies, invited talk, ALMA and ELTs: a deeper, finer view of the Universe, Garching, Germany, March 2009.
- van Dishoeck, E.F.: Sun-bathing around low-mass proto-stars: APEX-CHAMP+ observations of high-J CO, invited talk, Submillimeter astrophysics and technology, Pasadena, USA, February 2009.
- van Dishoeck, E.F.: Water and organic molecules in disks: ALMA and IR synergy, invited talk, High angular resolution observations at millimeter wavelengths, Taipei, Taiwan, June 2009.
- Veilleux, S.: Galaxy Mergers, Ultraluminous Infrared Galaxies, and Quasar Activity, colloquium, Astrophysical Institute, Potsdam, Germany, June 2009.
- Veilleux, S.: Galaxy Mergers, Ultraluminous Infrared Galaxies, and Quasar Activity, colloquium, INAF, Istituto di Radioastronomia, Bologna, Italy, June 2009.
- Veilleux, S.: Galaxy Mergers, Ultraluminous Infrared Galaxies, and Quasar Activity, colloquium, MPIfR, Bonn, Germany, June 2009.

- Veilleux, S.: Galaxy Mergers, Ultraluminous Infrared Galaxies, and Quasar Activity, colloquium, Ruhr-Universität, Bochum, Germany, June 2009.
- Veilleux, S.: Galaxy Mergers, Ultraluminous Infrared Galaxies, and Quasar Activity, colloquium, MPA, Heidelberg, Germany, May 2009.
- Veilleux, S.: Galaxy Mergers, Ultraluminous Infrared Galaxies, and Quasar Activity, colloquium, MPE/MPA/ESO (Munich Joint Astronomy), Garching, Germany, March 2009.
- Ventimiglia, G.: The formation of cD halos: the case of NGC 3311 in the Hydra I cluster, contributed talk, IAU XXVII General Assembly: JD1, Rio de Janeiro, Brazil, August 2009.
- Ventimiglia, G.: The kinematics of intracluster Planetary Nebulae in the Hydra I cluster, contributed talk, IAU XXXVII General Assembly: JD2, Rio de Janeiro, Brazil, August 2009.
- von Kienlin, A.: Der Himmel im Licht der Gammastrahlen, invited talk, 22. Raumfahrt-Kolloquium, FH-Aachen, Luft- und Raumfahrttechnik, Aachen, Germany, November 2009.
- von Kienlin, A.: GRBs and TGFs observed with FERMI/GBM, invited talk, 7th Agile Meeting & The Bright Gamma-Ray Sky, ESA/ESRIN, Frascati, Italy, October 2009.
- von Kienlin, A.: The FERMI-Gamma-ray Burst Monitor, invited talk, CEA-Saclay, DSM/IRFU/Service d'Astrophysique, Gif sur Yvette, France, October 2009.
- Weidenspointner, G.: An introduction to astronomy, public talk, primary school at the Pfanzeltplatz, Munich, Germany, June 2009.
- Wilman, D.J.: A multiscale approach to environment, contributed talk, Hunting for the Dark: The Hidden Side of Galaxy Formation, Qawra, Malta, October 2009.
- Wilman, D.J.: Morphological Composition of $z \sim 0.4$ Groups: The Site of S0 formation?, colloquium, University of Zürich, Switzerland, January 2009.
- Wilman, D.J.: Morphological Composition of $z \sim 0.4$ Groups: The site of S0 formation?, colloquium, CFA, Harvard, Cambridge, USA, August 2009.
- Wilman, D.J.: Morphological Composition of $z \sim 0.4$ Groups: The site of S0 formation?, colloquium, Trieste Observatory, Italy, November 2009.
- Wilman, D.J.: Morphological Composition of $z \sim 0.4$ Groups: The site of S0 formation?, contributed talk, Galaxy Evolution and Environment, Kuala Lumpur, Malaysia, April 2009.
- Wilman, D.J.: The CNOC2 $z \sim 0.4$ Groups Project: The optimal environment for galaxy transformations?, colloquium, University of Durham, UK, July 2009.
- Wörner, L.: New mechanism of rotation of 3D plasma crystals, contributed talk, DSDP Workshop, Kiel, Germany, September 2009.
- Yaroshenko, V.V.: Characteristics of Charged Dust Inferred from the Cassini RPWS Measurements in the Vicinity of Enceladus, contributed talk, 2009 General Assembly of the European Geosciences Union, Vienna, Austria, April 2009.
- Zhdanov, S.: Auto-oscillation patterns in complex plasmas, contributed talk, 2nd Workshop on Diagnostics and Simulation of Dusty Plasmas, Kiel, Germany, September 2009.
- Zhdanov, S.: Auto-Oscillations in Complex Plasmas, contributed talk, 17th International Colloquium on Plasma Processes (CIP 09), Marseille, France, June 2009.
- Zhdanov, S.: Patterns in a complex plasma, contributed talk, PK-3 Plus Symposium 2009+ ITT-Meeting, Garching, Germany, October 2009.
- Zimmermann, J.L.: Plasmamedizin – Neue Möglichkeiten in der Medizin, invited talk, 11. Tagung der Region Südost der Deutschen Dermatologischen Akademie der Münchner Dermatologischen Gesellschaft, Pullach, Germany, December 2009.

PhD Theses

Kimmel, N.: Analysis of the charge collection process in solid state X-ray detectors. Universität Siegen 2009.

Koppenhoefer, J.: Searching for extra-solar planets with the transit method. LMU 2009.

Krühler, T.: Advanced Photometric Studies of Gamma-ray Burst Afterglows. TUM 2009.

Nowak, N.A.N.: Exploring the relations between bulges and central black holes in unusual galaxies. LMU 2009.

Schwabe, M.: Dynamical effects in fluid complex plasmas. LMU 2009.

Diploma Theses

Fritz, T.K.: Astrometrie von IRS13E. LMU 2009.

Heftrich, T.: AGN X-ray photoionized plasma diagnostics with IXO. Goethe-Universität Frankfurt am Main 2009.

Jankowsky, F.: (Bachelor Thesis) Beobachtungsmethoden und die physikalischen Eigenschaften von extrasolaren Planeten. LMU 2009.

Mayer, P.: Charakterisierung und Integration eines Wellenfrontsensordetektors für ein Laserleitsternsystem (Master Thesis). LMU 2009.

Ohlendorf, H.: ^{26}Al Gamma-Ray Emission from the Scorpius-Centaurus Association. Universität Würzburg 2009.

Saez-Cano, G.: ^{26}Al gamma-ray emission and star formation in the Gould Belt. TUM 2009.

Books / Articles in Books

Becker, W.: X-Ray Emission from Pulsars and Neutron Stars, Neutron Stars and Pulsars. (Ed.) W. Becker. Springer, Berlin Heidelberg, 91-140 (2009).

Dennerl, K.: X-Rays from Nonmagnetic Planets, ADVANCES IN GEOSCIENCES, Volume 15: Planetary Science (PS). (Eds.) A. Bhardwaj et al., World Scientific, Singapore, 53-74 (2009).

Fortov, V.E. and G.E. Morfill (Eds.): Complex and Dusty Plasmas: From Laboratory to Space. CRC Press, London, 440 p (2009).

Fortov, V.E., A.G. Khrapak, V.I. Molotkov, O.F. Petrov, H.M. Thomas, O.S. Vaulina and S.V. Vladimirov: Types of experimental complex plasmas, Complex and Dusty Plasmas: From Laboratory to Space. (Eds.) V.E. Fortov, G.E. Morfill. CRC Press, London, 01-98 (2009).

Haerendel, G.: Are we alone? Searching for life in the universe and its creation, in "Humans in Outer Space - Interdisciplinary Odysseys" (Ed.) L. Codignola and K.-U. Schrogl, Springer-Verlag, Wien, 22-34 (2009).

Horanyi, M., O. Havnes and G.E. Morfill: Dusty plasmas in the solar system, Complex and Dusty Plasmas: From Laboratory to Space. (Eds.) V.E. Fortov, G.E. Morfill. CRC Press, London, 291-324 (2009).

Ivlev, A.V. and S.A. Khrapak: Waves and instabilities, Complex and Dusty Plasmas: From Laboratory to Space. (Eds.) V.E. Fortov, G.E. Morfill. CRC Press, London, 199-238 (2009).

Ivlev, A.V., G.E. Morfill and S.A. Khrapak: Kinetic studies of fluids and solids with complex plasmas, Complex

and Dusty Plasmas: From Laboratory to Space. (Eds.) V.E. Fortov, G.E. Morfill. CRC Press, London, 239-290 (2009).

Ivlev, A.V.: Particle dynamics, Complex and Dusty Plasmas: From Laboratory to Space. (Eds.) V.E. Fortov, G.E. Morfill. CRC Press, London, 185-198 (2009).

Khrapak, S.A. and A.V. Ivlev: Basic plasma-particle interactions, Complex and Dusty Plasmas: From Laboratory to Space. (Eds.) V. E. Fortov, G. E. Morfill. CRC Press, London, 99-184 (2009).

Klecker, B.: Interplanetary Particles and Magnetic Field. In: Landolt-Börnstein, Numerical Data and Functional Relationships, New Series, Volume Astronomy, Astrophysics, Cosmology (Ed.: J. Trümper), Chapter 4.3.6, p 537-559 (2009).

Trümper, J.E. (Ed.): Landolt-Börnstein Group VI, Volume 4, Astronomy, Astrophysics & Cosmology; Subvolume b: Solar System, 628 p. (2009).

Trümper, J.E.: Nachruf auf Jürgen Ehlers, Jahrbuch der Bayerischen Akademie der Wissenschaften 2008. (Ed.) J.E. Trümper. 152-154 (2009).

Vaulina, O.S. and B.A. Klumov: Numerical simulations of complex plasmas, Complex and Dusty Plasmas: From Laboratory to Space. (Eds.) V.E. Fortov, G.E. Morfill. CRC Press, London, 325-384 (2009).

Vaulina, O.S., O.F. Petrov, V.E. Fortov, A.G. Khrapak and S.A. Khrapak (Eds.): Dusty Plasmas: Experiment and Theory. Fizmatlit, Moscow, 316 p (2009).

Popular Scientific Publications

Diehl, R. and D.H. Hartmann: Astrophysik im Gammabereich: Die radioaktive Galaxis. In: Geheimnisvoller Kosmos: Astrophysik und Kosmologie im 21. Jahrhundert. (Eds.) T. Bührke, R. Wengenmayr. Wiley-VCH, Weinheim, Germany, 94-100 (2009).

Gillessen, S.: Als Astronom am Very Large Telescope in Chile. *Astronomie & Raumfahrt* 05/09, 38-42 (2009).

Gillessen, S.: Das Zentrum der Milchstrasse. *Physik in unserer Zeit* 40, 66-66 (2009).

Gillessen, S.: Eine Nacht im Zentrum der Milchstraße. *Sterne und Weltraum* Feb 2009, 52-61 (2009).

Kasper, M., P. Amico, E. Pompei, N. Ageorges, D. Apai, J. Argomedo, N. Kornweibel and C. Lidman: Direct Imaging of Exoplanets and Brown Dwarfs with the VLT: NACO Pupil-stabilised Lyot Coronagraphy at 4 μm . *The Messenger* 137, 08-13 (2009).

Klecker, B.: Die Physik des erdnahen Weltraums, *Astronomie und Raumfahrt im Unterricht*, Heft 6, p 13-16 (2009).

Kurk, J., A. Cimatti, E. Daddi, M. Mignoli, M. Bolzonella, L. Pozzetti, P. Cassata, C. Halliday, G. Zamorani, S. Berta, M. Brusa, M. Dickinson, A. Franceschini, G. Rodighiero, P. Rosati and A. Renzini: A VLT Large Programme to Study Galaxies at $z \sim 2$: GMASS - the Galaxy Mass Assembly Ultra-deep Spectroscopic Survey. *The Messenger* 135, 40-44 (2009).

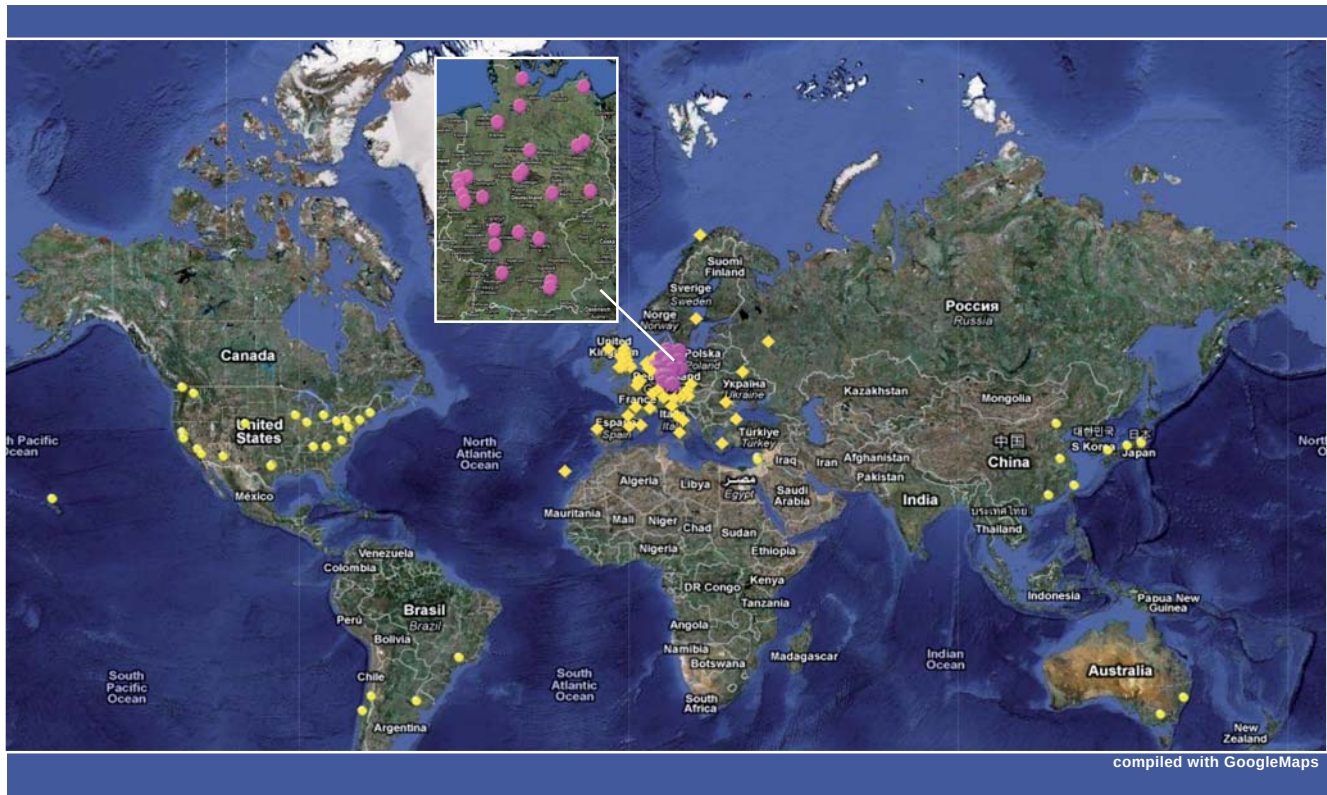
Poggianti, B., A. Aragón-Salamanca, S. Bamford, F. Barazza, P. Best, D. Clowe, J. Dalcanton, G. DeLucia, V. Desai, R. Finn, C. Halliday, P. Jablonka, O. Johnson, B. Milvang-Jensen, J. Moustakas, S. Noll, N. Nowak, R. Pelló, S. Poirier, G. Rudnick, R. Saglia, P. Sánchez-Blázquez, L. Simard, J. Varela, A. von der Linden, I. Whaley, S. White and D. Zaritsky: The ESO Distant Cluster Sample: Galaxy Evolution and Environment out to $z = 1$. *The Messenger* 136, 54-59 (2009).

Phleps, S.: Schallwellen in der Ursuppe. *Sterne und Weltraum* 10/2009, 30-39 (2009).

Schönfelder, V.: Gamma-Astronomie: INTEGRAL entdeckt den Gamma-Himmel. In: Geheimnisvoller Kosmos: Astrophysik und Kosmologie im 21. Jahrhundert. (Eds.) T. Bührke, R. Wengenmayr. Wiley-VCH, Weinheim, Germany, 86-92 (2009).

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

Institut für Weltraumforschung der Österreichischen Akademie der Wissenschaften, Graz: CIS; EDI auf CLUSTER; Geomagnetischer Schweif.

Universität und TU Wien: Herschel-PACS.

Belgium

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

Brazil

Universidade de Sao Paulo: Galaxienentstehung.

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, Staubbetektion in Fusionsreaktoren.

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

Croatia

Ministry of Science and Technology, Zagreb: CAST.

France

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

Centre d'Etude Spatiale des Rayonnements (UPS), Toulouse: INTEGRAL-Spektrometer SPI; CIS/Cluster; Double Star.

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; STEREO.

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 Festkörpertechnologie, München: XEUS; eROSITA.

IAP Berlin: HETDEX.

Fraunhofer Institut für Mikroelektronische Schaltungen und Systeme, Duisburg: Mikroelektronikentwicklungen; CAMEX 64B; JFET-CMOS Prozessor; XEUS; eROSITA.

International University Bremen: Astro-Plasmaphysik, CLUSTER.

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.

Mair-Leibnitz Laboratorium Garching: eROSITA.

Max-Planck-Institut für Sonnensystemforschung, Katlenburg-Lindau: Experiment CELIAS auf SOHO; Experiment CIS auf CLUSTER; 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 und Driftdetektoren für den Röntgenbereich; CAST.

Max-Planck-Institut für Kernphysik: CFEL.

Max-Planck-Institut für Biomedizinische Forschung: CFEL.

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

Max-Planck-Institut für Biophysische Chemie: CFEL.

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

Physikalisch-Technische Bundesanstalt Berlin: eROSITA.

PTB Berlin: TES Bolometer SQUID-Ausleseschaltung.

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 Köln: Galaktisches Zentrum; GRAVITY.

Universität Mannheim: IXO XFEL.

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

Universitätssternwarte Göttingen: OmegaCAM.

Universität Siegen: Compton Kamera.

Universität Würzburg: ACE, STEREO, 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

Beer Sheva University: Astro-Plasmaphysik.

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; CLUSTER/CIS; Double Star. 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.

Institute of Space and Astronautical Science, Yoshinodai: Suzaku; Astro-F Solar System Observations; Astro-Plasmaphysik.

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.

University of Tokyo: Astro-F Solar System Observations; Astro-Plasmaphysik.

Yokohama National University: komplexe Plasmen.

The Netherlands

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

FOM Institute for Plasma Physics, Rijnhuizen: komplexe Plasmen.

NOVA Leiden: MICADO.

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

Universität Lissabon: Komplexe Plasmen.

Romania

Institute for Space Sciences, Bukarest: Plasmaphysik; FAST; CLUSTER.

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; Astro-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.

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

Sweden

University Lund/Observatory: OPTIMA.

University Stockholm: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

Switzerland

CERN, Geneva: CAST.

International Space Science Institute, Bern: Plasmaphysik; Astro-Plasmaphysik.

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

Universität Basel: Nukleare Astrophysik.

Universität Bern: SOHO/CELIAS; STEREO/PLASTIC.

Spain

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

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

LAEFF, Madrid: RoPACS.

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

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen

Taiwan

National Central University, Chungli; PanSTARRS.

Turkey

Bogazici University, Istanbul: CAST.

UK

Belfast, Queen's University: PanSTARRS.

BRUNEL University: IXO.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

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); JSOC für CLUSTER.

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

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

University of Durham: KMOS, PanSTARRS.

University of Cambridge: RoPacs.

University of Edinburgh: 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 Southampton: Magellanic Clouds.

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

University Oxford: Komplexe Plasmen; KMOS.

University of Sheffield: Astro-Plasmaphysik.

UKATC: EUCLID

Ukraine

Main National Observatory, Kiev: RoPACS.

USA

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

California Inst. of Technology, Pasadena: SAMPEX; ACE; X-ray survey; STEREO.

CfA, Cambridge: IXO WFI.

Clemson University: Gamma-Ray Bursts; Nukleare Astrophysik.

Dartmouth College, Hanover, NH: Weltraum-Plasmaphysik; CLUSTER.

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-Detektorenmaterial.

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

MIT, Cambridge: IXI WFI.

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

Naval Research Laboratory: komplexe Plasmen.

Naval Postgraduate School, Monterey: Modellierung der Halbleitereigenschaften von Galliumarsenidmaterial für Infrarotdetektoren.

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: Fermi/LAT; Fermi/GBM.

SLAC: CAMP.

Texas State University: HETDEX.

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

University of California, Berkeley: MPG/UCB-Kollaboration; Fern-Infrarot-Detektoren; Polarlichtbeobachtungen; FAST; INTEGRAL-Spektrometer SPI; CLUSTER/CIS; STEREO.

University of California, San Diego: CLUSTER/EDI; komplexe Plasmen.

University of Colorado, Boulder: SAMPEX; komplexe Plasmen.

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

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

University of Maryland, College Park, MD: SOHO; ACE.

University of New Hampshire, Durham: SEPICA/ACE; CLUSTER; SOHO; FAST; STEREO.

University of Pittsburgh: Galaxienentstehung.

University of Southern California, Los Angeles: SEM/CELIAS Experiment auf SOHO.

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung.

University of Washington, Seattle: CLUSTER/CIS.

University Space Research Association, Moffett Field: SOFIA.

Multinational Collaborations - Projects

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

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

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

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.

CDS - Coronal Diagnostic Spectrometer for the Solar and Heliospheric Observatory: Rutherford Appleton Laboratory Chilton, Mullard Space Science Laboratory London, University College London, Oxford University, UK; LPSP Verrieres-le-Buisson, Nice Observatory, France; Oslo University, Norway; ETH Zürich, Switzerland; GSFC Greenbelt, NRL Washington, HCO Cambridge, Stanford University, USA; Padova University, Turin University, Italy; MPS Katlenburg-Lindau, Germany.

CELIAS - Experiment for SOHO: MPS Katlenburg-Lindau, TU Braunschweig, Germany; Universität Bern, Switzerland; IKI Moscow, Russia; University of Maryland College Park, University of New Hampshire Durham, University of Southern California Los Angeles, USA.

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.

CIS-Experiment for CLUSTER: MPS Katlenburg-Lindau Germany; Universität Bern, Switzerland; CESR Toulouse, France; IFSI-CRR Frascati, Italy; Universität Heraklion, Greece; Lockheed Palo Alto Res. Lab., Space Science Lab., Univ. of California Berkeley, Univ. of New Hampshire Durham, Univ. of Washington Seattle, USA.

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.

DOUBLE STAR: MPS Katlenburg-Lindau, Germany; IFSI-CRR Frascati, Italy; CESR Toulouse, France; Space Science Lab., University of California, Berkeley, University of New Hampshire, Durham NH, USA.

EDI-Experiment for CLUSTER: University of New Hampshire Durham, University of California San Diego, USA.

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, 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, Germany; Observatoire de Paris / LESIA, France; Universität zu Köln, Germany; European Southern Observatory, Garching, Germany; SIM Lisbon, Portugal; LAOG, Grenoble, France.

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

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

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

ISDC - INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University 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; Institute de Physique Nucleaire Université de Louvain, Belgium; Istituto di Fisica Cosmica e Tecnologia del CNR Milano, Italy; University de Valencia Burjassot, Spain; University of Birmingham, UK; NASA/GSFC Greenbelt, University of California Berkeley.

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 MCAO 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.

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.

PLASTIC - Plasma and Supra Thermal Ion Composition Investigation experiment for STEREO: University of New Hampshire Durham, NASA/GSFC Greenbelt, USA; Universität Bern, Switzerland; Universität Kiel, Germany.

RoPACS - Marie Curie Initial Training Network to study Rocky Planets around cool stars: University of Hertfordshire, Institute of Astronomy, Cambridge, UK; Instituto de Astrofisica de Canarias, Laboratono de Astrifisica Espacuval 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.

SIMBOL-X - Formation flying for a next-generation X-ray telescope: Osservatorio Astronomico di Brera, Italy; CEA Saclay, France; Universität Tübingen, Universität Erlangen, Germany.

Swift - Gamma-Ray Burst Mission: NASA/GSFC Greenbelt, Penn State University, USA; University of Leicester,

Mullard Space Science Laboratory London, UK; Osservatorio Astronomico Brera, Italy.

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

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

don, UK.

XMM-Newton/TS (Telescope Scientist): ESTEC Noordwijk, The Netherlands.

XMM-Newton/EPIC (European Photo Imaging Camera): SAP Saclay, IAS Orsay, CESR Toulouse, France; University of Leicester, University Birmingham, UK; CNR Maitland-Palermo-Bologna-Frascati, Osservatorio Astronomico Maitland, 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, Engmanting: 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.

BARR, USA: Manufacturing of filters for Omega Cam.

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: Platinum development, electronics development.

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

Carl Zeiss, Oberkochen: eROSITA mandrels.

Cryorac, Troisdorf: Cryogenic Design for Gravity.

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

EADS Atrium 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.

Frank Optic Products GmbH, Berlin: VIRUS-W fibre bundle.

Freyer GmbH, Tübingen: PANTER.

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

Hans Engleth OHG, Berlin: Manufacturing of front panels and metering devices.

Harold Johnson, Gardena, USA: Mirrors and normalizing lenses.

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 XEUS 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.

JDS Uniphase Corporation, Milpitas, USA: VIRUS-W narrow band filter.

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: Mirrors for OPTIMA, FIFI-LS.

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

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

PFMA Munich: Mechanical Design for Gravity.

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

POG Präzisionsoptik, Gera: Camera objective VIRUS-W, Prism for VIRUS-W GRISM, Beamsplitter for 3-channel camera.

Pribil D., Unterhaching: LUCIFER.

Physik Instrumente Karlsruhe: Cryogenic Piezo Actuators for Gravity.

Sagem, Paris: Manufacturing of filters for OmegaCAM.

Siebert 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; Absolutkalibrierung eines Röntgen-CCD Systems.

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, Ludwig-Maximilians-Universität, München.

Radiology:

Institut für Röntgendiagnostik, TU München.

Pattern recognition:

Bayerisches Landeskriminalamt, StZ, München.

Plasma Medicine:

Department of Chemical Engineering, University of California, 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

Detector Development:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung

D) Patents - Activities in 2009

Adaptive Mesh Electrode (Barrier Corona Discharge Electrode): PCT Patent Application

Hand Plasma Dispenser: EP Patent Application

Halbleiterstruktur und zugehöriges Betriebsverfahren, DE 029 898.8-09

Avalanche Photodiode, DE 037 020.4-09, PCT/EP 04903

DEPFET Transistor mit hohem Dynamikbereich, DE 048 890.6-09, PCT/EP 08489

DEPFETs für BIB Detektoren, DE 023 807.7-52