



**Max-Planck-Institut für
extraterrestrische Physik**

Annual Statistics 2007

PERSONNEL

Directors

Prof. Dr. R. Bender, Optical and Interpretative Astronomy, also Professorship for Astronomy/Astrophysics at the Ludwig-Maximilians-University Munich

Prof. Dr. R. Genzel, Infrared and Submillimeter-Astronomy, also Prof. of Physics, University of California, Berkeley, USA

Prof. Dr. G. Hasinger, X-Ray- and Gamma-Ray Astronomy (Managing Director)

Prof. Dr. G. Morfill, Theory, Non-linear Dynamics, Complex Plasmas

Prof. Dr. G. Haerendel (emeritus)

Prof. Dr. R. Lüst (emeritus)

Prof. Dr. J. Trümper (emeritus)

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Dr. W. Collmar

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Prof. Dr. C.H. Townes, University of California, Berkeley (USA)

Curators (together with the MPI for Astrophysics)

I. Aigner, Mitglied des Bundestages, Gmund

Dr. L. Baumgarten, Vorstandsmitglied DLR

Prof. Dr. A. Bode, TU M nchen (Vizepräsident)

J. Breilkopf, Kayser-Threde GmbH, M nchen

D. Dauke, Bundesministerium f r Wirtschaft und Technologie, Berlin

H.-J. D rrmeier, S ddeutscher Verlag, M nchen

Prof. Dr. W. Glatthaar, DG Bank (Chair of the Curatorium), Stuttgart

Dr. G. Gruppe, Bayerisches Staatsministerium f r Wirtschaft, Verkehr und Technologie, M nchen

Prof. Dr. B. Huber, Rektor der LMU M nchen

Dr. M. Mayer, ehem. Mitglied des Bundestages, H henkirchen

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Prof. Dr. F. Harrison, CALTECH (USA)

Prof. Dr. O. Havnes, University of Tr ms  (Norway)

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Prof. Dr. R. McCray, University of Colorado (USA)

Prof. Dr. M. Salvati, Osservatorio Astrofisico di Arcetri (Italy)

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Friedrich Wilhelm Bessel - Research Award of the A. von Humboldt Stiftung

Dr. A. Cimatti, Istituto Nazionale de Astrifisica (INAF), Arcetri (Italy)

A. v. Humboldt Fellows

Prof. Dr. D. Jaffe, University of Texas (USA)

Dr. F. Martins, Observatoire Midi-Pyr n es (France)/ Geneva Observatory (Switzerland)

Dr. V. Yaroschenko, Universiteit Gent (Belgium)

Prof. M. Horanyi, University of Colorado (USA)

MPE Senior Research Fellow

Dr. K. Iwasawa

Scientific Honours, Appointments

Genzel, Reinhard: Celsius Lecture, University of Uppsala (Sweden)

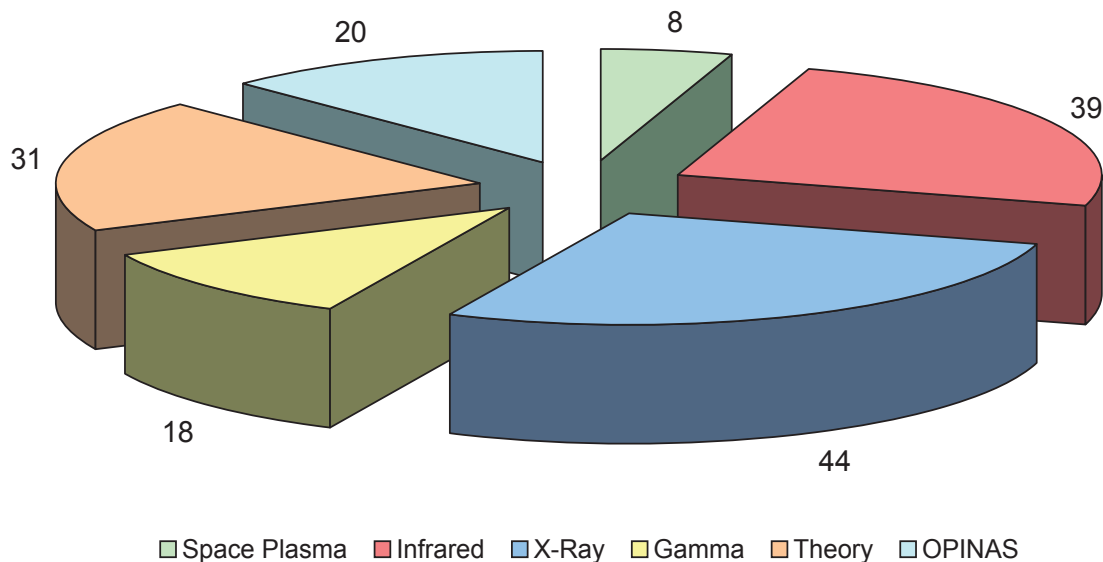
Genzel, Reinhard: Albert-Einstein-Medaille der Albert-Einstein Gesellschaft (AEG), Bern (Switzerland)

Gerhard, Ortwin: President of Division VII (Galactic System) of the International Astronomical Union

Hasinger, G nther: President of Division XI (Space and High-Energy Astrophysics) of the International Astronomical Union

Science Groups

Staff Members by Science Group



Space Physics of the Near-Earth Environment

Team Assistant: Zanker-Smith, J.

Georgescu, Dipl.-Phys. E.; Haaland, Dr. S.; Klecker, Dr. B.; Leistner, Dipl.-Phys. G.; Marghitu, Dr. O. (until 15.5., 19.6.-27.7., since 5.11.); Pitout, Dr. F. (until 31.1.); Volwerk, Dr. M.

Guests

Bogdanova, Dr. Y. (30.7.- 3.8.); Bunesco, C. (19.2.-15.5., 5.11.-21.12.); Chen, Dr. L.-J. (23.7.-22.8.); Comisel, Dr. H. (12.4.-15.5., 27.8.-31.10., 19.11.-21.12.); Dröge, Dr. W. (19.3.-24.3.); Karlsson, T. (15.1.-3.2.); Kartavykh, Dr. J. (17.2.-24.3., 21.10.-10.11.); Lee, Prof. M. (6.-10.3.); Matsukiyo, Dr. S. (22.-30.8.); Nakamura, Dr. R. (19.-22.6.); Pitout, Dr. F. (8.-16.3., 11.-22.6.)

PhD / Diploma

Blagau, A. (Klecker)

Infrared / Submillimeter-Astronomy

Secretary: Harai-Ströbl, S.

Agudo Berbel, A.; Bartko, Dr. H. (since 15.11.); Bauer, Dipl.-Phys. O.; Berta, Dr. S. (since 3.9.); Bouché, Dr. N.; Contursi, Dr. A.; Cresci, Dipl.-Phys. G.; Davies, Dr. R.; Eisenhauer, Dr. F.; Feuchtgruber, Dipl.-Phys. H.; Förster Schreiber, Dr. N.; Friedl, A.; Geis, Dr. N.; Gemperlein, H.; Gillissen, Dr. S.; Gräter, A.; Gueguen, A. (since 15.11.); Hamaus, N.; Hartinger, Dr. C.; Hicks, Dr. E.; Hofmann, Dr. R.; Katterloher, Dr. R.; Kleiser, A.; Kornberg, Dr. M.; Krombach, H.; Lutz, Dr. D.; Martins Dr. F.; Müller, Dr. T.; Osterhage, S.; Poglitsch, Dr. A.; Popesso, Dr. P. (since 1.1.); Raab, Dr. W.; Rabien, Dr. S.; Schmid, Dr. W. (until

30.9.); Sturm, Dr. E.; Tacconi, Dr. L.; Wetzstein, Dr. M.; Wildgruber, G. (until 31.8.)

Guests

Bland-Hawthorn, Prof. J. (3 months, with ESO); Cimatti, Dr. A. (7.-31.5.); Jaffe, Prof. D. (2.-29.6.); Mor, R. (9.-20.7.); Netzer, Prof. H. (1.7.-17.8.); Saykally, Prof. R. (1.17.8.); Shapiro, Dr. K. (29.5.-17.6., 10.-21.9., 10.-13.12.); Sternberg, Prof. A. (6.-17.6., 10.-14.9.)

PhD / Diploma

Buschkamp, P. (Hofmann); Dodds-Eden, K. (since 18.4., Genzel); Engel, H. (since 3.9., Davies); Genel, S. (Genzel); Harayama, Dipl.-Phys. Y. (until 31.1., Eisenhauer); Hölzl, G. (since 1.11., Rabien); Kolmeder, J. (since 8.5., Eisenhauer); Müller Sanchez, F. (Davies); Pfuhl, O. (since 15.10., Eisenhauer); Rank, S. (until 30.9.); Schropp, M. (until 30.9., Rabien); Schweitzer, Dipl.-Phys. M. (Genzel); Trippe, Dipl.-Phys. S. (Genzel); Valiante, Dipl.-Phys. E. (Lutz/Sturm)

X-Ray Astronomy

Secretary: Boller, B.

Andritschke, Dr. R.; Aschenbach, Dr. B.; Becker, Prof. Dr. W.; Boller, Prof. Dr. T.; Braig, Dr. C.; Bräuninger, Dr. H.; Briel, Dr. U.; Brunner, Dr. H.; Brusa, Dr. M.; Burkert, Dr. W.; Burwitz, Dr. V.; Carlson, Dr. A.; Dennerl, Dr. K.; Finoguenov, Dr. A.; Frankenhuizen, W.; Freyberg, Dr. M.; Friedrich, Dr. P.; Haberl, Dr. F.; Hartner, Dipl.-Math. G.; Hirschinger, M.; Iwasawa, Dr. K.; Komossa, Dr. S.; Lemson, Dr. G.; Meidinger, Dr. N.; Mießner, D.; Misaki, K.; Müller, Dr. A.; Nosenko, V.; Pfeffermann, Dipl.-

Phys. E.; Pietsch, Dr. W.; Porro, Dr. M.; Predehl, Dr. P.; Ramirez, Dr. J.M.; Schaller, G.; Schopper, Dr. F.; Shen, Dr. S.; Silverman, Dr. J.; Strateva, Dr. I.; Strüder, Prof. Dr. L.; Szokoly, Dr. G.P.; Treis, Dr. J.; Voges, Dr. W.; Vongehr, M.;

Guests

Akyz, A. (until 23.2.); Bianchi, S. (15.-19.10.); Carrera Ebrero, J. (21.4.-20.6); Chaudhary, P. (since 1.9.); Chupp, E. (6.-15.7.); Filipovicz, M. (9.9.-7.11.); Ghosh, P. (13.5.-14.6.); Giodini, S. (until 31.1.); Griffith, R. (10.6.-3.8.); Guzzo, L. (6.3.-31.7.); Gvaradmatze, V. (1.10.- 23.12.); Hatzidimitriou, D. (15.6.-25.8.); Heng, K. (25.6.-27.7.); Iyudin, A. (6.-26.6., 7.-21.11.); James, B. (19.-30.11.); McCracken, H. (19.-30.11.); Mineo, S.; Mohr, J. (until 2.7.); Mois, A. (4.6.-3.8.); Myaji, T. (22.6.-1.7., 8.-13.7., 23.11.-4.12.); Nandra, P. (14.-16.3.); Peacock, J. (25.-30.11.); Raut, D. (17.-28.4.); Salvato, M. (16.-21.4.); Schmidt, P. (1.-31.7.); Trinchieri, G. (1.7.-31.8.); Voss, R. (1.8.-31.10.); Wang, J.M. (since 12.11.); Xu, D. (12.10.-10.11.); Yanli, A. (23.-30.9.); Zhou, H. (since 30.5.)

PhD / Diploma

Balestra, Dipl.-Phys. I. (Boller); Bauer, Dipl.-Phys. M. (Pietsch); Cappelluti, Dipl.-Phys. N. (Hasinger); Chaudhary, Dipl.-Phys. P. (since 1.9., Hasinger); Eger, P. (ab 1.10., Haberl); Fedl, V. (Strüder); Fürmetz, Dipl.-Phys. M. (Predehl); Grünecker, B. (since 1.5., Becker); Henze, Dipl.-Phys. M. (since 1.9., Pietsch); Huang, Dipl.-Phys. H.-H. (Becker); Hui, D. (Becker); Hyde, E. (Meidinger); Jocham, C. (since 1.6.); Kimmel, N. (Strüder); Lauf, T. (Strüder); Mühlegger, Dipl.-Phys. M. (Hasinger); Posselt, Dipl.-Phys. B. (Haberl/Voges); Rabe, J. (ab 1.6.); Stiele, H. (Pietsch/Hasinger); Schächner, Dipl.-Phys. G. (Meidinger); Wölfel, Dipl.-Phys. S. (Strüder); Trepl, L. (Becker)

Gamma-Ray Astronomy

Team Assistent: Frankenhuizen, W.

Ajello, Dr. M. (since 1.5.); Bribian-Sanchez, B.; Diehl, Dr. R.; Greiner, Dr. J.; Kanbach, Dr. G.; Kienlin von, Dr. A.; Küpcü Yoldas, Dr. A.; Lichti, Dr. G. (until 30.9.); McBreen, Dr. S.; Petry, Dr. D.; Rehm, D.; Sala, Dr. G.; Savaglio, Dr. S.; Strong, Dr. A.; Voss, Dr. R. (since 1.11.); Yoldas, A.; Zhang, Dr. X.-L.

Guests

Bhargavi, Dr. S.G. (1.7.-31.10.); Halloin, Dr. H. (until 30.6.); Hartmann, Prof. D. (1.-31.8., 1.-31.10.); Iyudin, Dr. A., Ohlendorf, H. (1.3.-30.4., 1.8.-30.9.); Suades, M. (1.9.-31.12.); Porter, Dr. T. (25.-30.11.)

PhD / Diploma

Ajello, Dipl.Phys. M. (until 30.4., Kanbach); Afonso, P. (since 1.9.); Bissaldi, Dipl.-Phys. E. (Lichti); Bottacini, E. (Greiner); Brunschweiler, J. (until 30.11., Greiner); Clemens, C. (Greiner); Duscha, S. (Kanbach); Huber, B. (Kanbach); Kretschmer, K. (until 31.8., Diehl); Krühler, T. (Greiner); Lang, M. (Diehl); Löw, S. (since 1.10., Greiner); Naumann, A. (until 30.11., Diehl); Orlando, E. (Strong); Prymak, N. (Greiner); Stefanescu, A. (Kanbach); Wang,

W. (until 31.10., Diehl)

Theory & Complex Plasmas

Secretary: Langer, A. / Collmar, E.

Aschenbrenner, Dr. T.; Böhringer, Dr. H.; Bunk, Dr. W.; Höfner, Dipl.-Phys. H.; Ivlev, Dr. A.; Jamitzky, Dr. F.; Khrapak, Dr. S.; Klumov, Dr. B.; Knapek, Dr. C. (since 1.11.); Kompaneets, Dr. R. (since 1.8.); Konopka, Dr. U.; Kretschmer, Dr. M.; Li, Dr. Y.; Monetti, Dr. R.; Nosenko, Dr. V.; Pierini, Dr. D.; Pompl, Dr. R.; Pratt, Dr. G.; Pustylnik, Dr. M.; Räth, Dr. C.; Rubin-Zuzic, Dr. M.; Scheingraber, Dr. H.; Shimizu, Dr. T.; Shizu, Dr. S.; Sidorenko, Dr. I.; Thoma, Dr. M.; Thomas, Dr. H.; Yaroshenko, Dr. V.; Zhdanov, Dr. S.

Guests

De Angelis, Prof. U.; Fortov, Prof. V.; Horanyi, Prof. M. (until 7.8.); Joyce, Prof. G. (ab 5.12.); Khrapak, Prof. A. (1.10.-30.11.); Martin, Dr. J. (until 31.10.); Steinberg, Prof. V. (until 30.4.); Takahashi, Dr. K. (until 31.3.); Tsytovitch, Prof. V. (until 30.4., 3.-29.7., ab 1.12.); Vladimirov, Prof. S. (1.-31.6.)

PhD / Diploma

Antonova, Dipl.-Phys. T. (Morfill); Braglia, F. (Böhringer); Brandt, Dipl.-Phys. P. (Morfill); Chaudhuri, M. (Morfill); Faßbender, Dipl.-Phys. R. (Böhringer); Fink, Dipl.-Phys. M. (Morfill); Heidemann, R. (Thomas); Huber, Dipl.-Phys. P. (Morfill); Jiang, Ke (Morfill); Knapek, Dipl.-Phys. C. (until 25.10., Morfill); Kompaneets, Dipl.-Phys. R. (until 31.7., Morfill); Mitic, S. (Morfill); Santos, J. (Böhringer); Schwabe, M. (Konopka); Simionescu, A. (Böhringer); Sütterlin, Dipl.-Phys. R. (Morfill); Zhang, Y.-Y. (Böhringer);

Optical and Interpretative Astronomy

Secretary: Rieperding, M.

Burkert, Prof. Dr. A., MPE Fellow; Coccato, L. (since 1.4.); Drory, Dr. N.; Gabasch, Dr. A.; Gerhard, Prof. Dr. O; Grupp, Dr. F.; Hopp, Dr. U.; Kortaba, H.; Krause, Dr. M (since 1.9.); Montalto, Dr. M. (since 1.7.); Muschiello, Dr. B.; Noll, Dr. S. (1.4.-31.8.); Noyola y Loya, Dr. E.; Phleps, Dr. S.; Relke, Dr. H.; Saglia, Dr. R.; Schartmann, Dr. M. (since 31.8.); Snigula, Dr. J.; Wilman, Dr. D.; Zibetti, Dr. S. (until 31.8.)

Guests

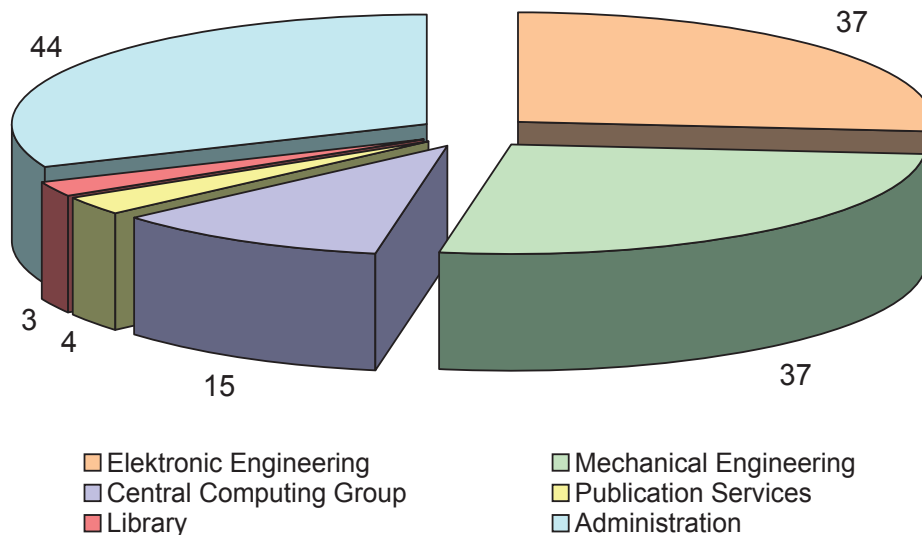
Gebhardt, Dr. K.-H. (15.7.-14.9.); Komatsu, Dr. E. (11.6.-24.8.); Kormendy, Dr. J. (11.7.-11.10.); Poggianti, Dr. B. (1.3.-31.8.)

PhD / Diploma

Balaguera Antolinez, A. (Bender); Connelly, J. (since 1.9.); Das, P. (Gerhard); De Lorenzi, Dipl.-Phys. F. (Gerhard); Hirschmann, M. (Burkert); Köhler, R. (Bender); Köppenhöfer, Dipl.-Phys. J. (until 31.5., Saglia); Montasano F. (since 1.9.); Nieves, Dipl.-Phys. L.A. (until 30.4., Bender); Nowak, Dipl.-Phys. N. (until 31.10., Saglia); Pannella, Dipl.-Phys. M. (until 31.1., Bender); Ulubay Siddiki, Dipl.-Phys. A. (Gerhard); Ventimiglia, G. (until 1.8., Gerhard); Walch, Dipl.-Phys. S. (until 31.8., Burkert)

Engineering and Workshops

Engineering, Workshops, Central Services Staff



Electronic Engineering

Tarantik, Dipl.-Ing. K. (Head of Electronics)
 Albrecht, Dipl.-Ing. S.; Albrecht, F. (30.7.-7.9.); Barl, Dipl.-Ing (FH) L.; Bornemann, Dipl.-Ing (FH) W.; Burghardt, Dipl.-Ing (FH) T.; Buron, A. (6.8.-7.9.) Cibooglu, H.; Deuter, M.; Emslander, A.; Fumi, Dr. F.; Gressmann, R.; Hagl, Dipl.-Ing (FH) T.; Hälker, Dipl.-Ing (FH) O.; Hans, O., Hengmith, M.; Herrmann, Dipl.-Ing (FH) S.-C.; Huber, Dipl.-Ing (FH) F. (since 1.12.); Jakob, Dipl.-Ing (FH) G. (until 31.10.); Kellner, Dipl.-Ing (FH) S.; Kink, Dipl.-Ing (FH) W.; Langer, P.; Lederer, R.; Lieb, W. (until 31.10.); Müller, Dipl.-Ing (FH) S.; Oberauer, F.; Rau, Dipl.-Ing (FH) C.; Reiss, P.; Rothermel, Dr. H.; Rupprecht, T.; Schneider, M.; Schrey, F.; Steffes, B. (until 30.9.); Wildgruber, Dipl.-Ing. G. (since 24.9.); Yaroshenko, V.; Zanker-Smith, J.; Ziegleder, Dipl.-Ing (FH) J. (since 1.3.)

Diploma

Ziegleder, Dipl.-Ing (FH) J. (until 28.2.)

Mechanical Engineering

Thiel, Dipl.-Ing. M. (Head of Mechanics)
 Arzt, S. (since 1.3.); Bayer, R.; Blasi, T.; Brandstetter, J.; Brara, A.; Budau, B.; Czempiel, S.; Deysenroth, C.; Deysenroth, M.; Dietrich, G.; Dittrich, Dipl.-Ing (FH); K;

Eibl, J.; El-Masry, J.(1.3.-31.8.) Feldmeier, P.; Gahl, J.; Goldbrunner, A.; Haug, Dipl.-Ing. (FH) M.; Honsberg, M.; Huber, N. (until 28.2.); Huber, S.; Huber, F.-X.; Huber, Dipl.-Ing H.; Kestler, H.-J.; Liebhardt, J.; Mayr, R.; Mayr-Ihbe, R.; Mican, Dipl.-Ing. B.; Plangger, M.; Pietschner, Dipl.-Ing. (FH) D. (since 1.10.); Rohe, C.; Sandmair, R.; Schnell, P.; Schunn, W.; Soller, F.; Straube, P.; Tiedemann, Dipl.-Ing. L. (since 1.7.)

Apprentices

Arzt, S. (until 28.2.); Bibracher, M.; El-Masry, J.(until 28.2.); Hartwig, J.; Hasinger, S.; Huber, D. (since 1.9.); Niemetz, E.; Schindlmeier, M.; Schneider, A.; Senftleben, S. (since 1.9.)

Work Experience (Schools)

Aumer, T. (26.2.-7.3.); Dirscherl, C. (10.-13.4.); Greil, M. (22.-26.10.); Meier, C. (29.5.-1.6.); Oglou, E. (14.-18.5.); Pütz, D. (26.3.-5.4.); Rödle, J. (5.-9.2)

Work Experience (University)

Eben, K. (12.3.-5.4.); Daniel, P. (3.-28.9.); Dittrich, S. (24.9.-12.10); Falahatkar, N. (15.10.-21.12.); Vogt, K. (18.6.-27.7.); Weber, S. (16.4.-25.5.)

Central Services

Computing

Central Computing Committee

Bauer, Dipl.-Phys. O.H. (Head)
 Bohnet, Dipl.-Phys. A.; Burwitz, Dr. V.; Haberl, Dr. F. (deputy); Jamitzky, Dr. F.; Leistner, G.; Lutz, Dr. D.; Müller, Dipl.-Ing. (FH) S.; Ott, Dr. T.; Petry, Dr. D.; Rubin-Zuzic, Dr. M.

Central Computing Support Group

Bauer, Dipl.-Phys. O.H. (Head)
 Baumgartner, H. (Netzwerk, Systemsupport); Bohnet, Dipl.-Phys.A. (Systemsupport Optische und Interpretative Astronomie); Kleiser, A. (Druckerbetreuung); Klose, L. (Netzwerk, Systemsupport); Oberauer, A. (Software, PC Betreuung); Ott, Dr. T. (Systemsupport Infrarot); Paul, J. (Röntgen, Datenschutzbeauftragter); Post, C. (Netzwerk, Systemsupport PC und Linux); Sigl, Dipl.-Ing. (FH) R. (Netzwerkmanagement); Steinle, Dr. H. (Datenbanken, Archivsysteme, WWW); Vaith, Dipl.-Phys. H. (Systemsupport Optische und Interpretative Astronomie, until 31.10.); Wieprecht, Dipl.-Ing. E. (Herschel-PACS); Wiezorrek, Dipl.-Ing. (FH) E. (Herschel-PACS)

Publication Services and Copy Shop

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

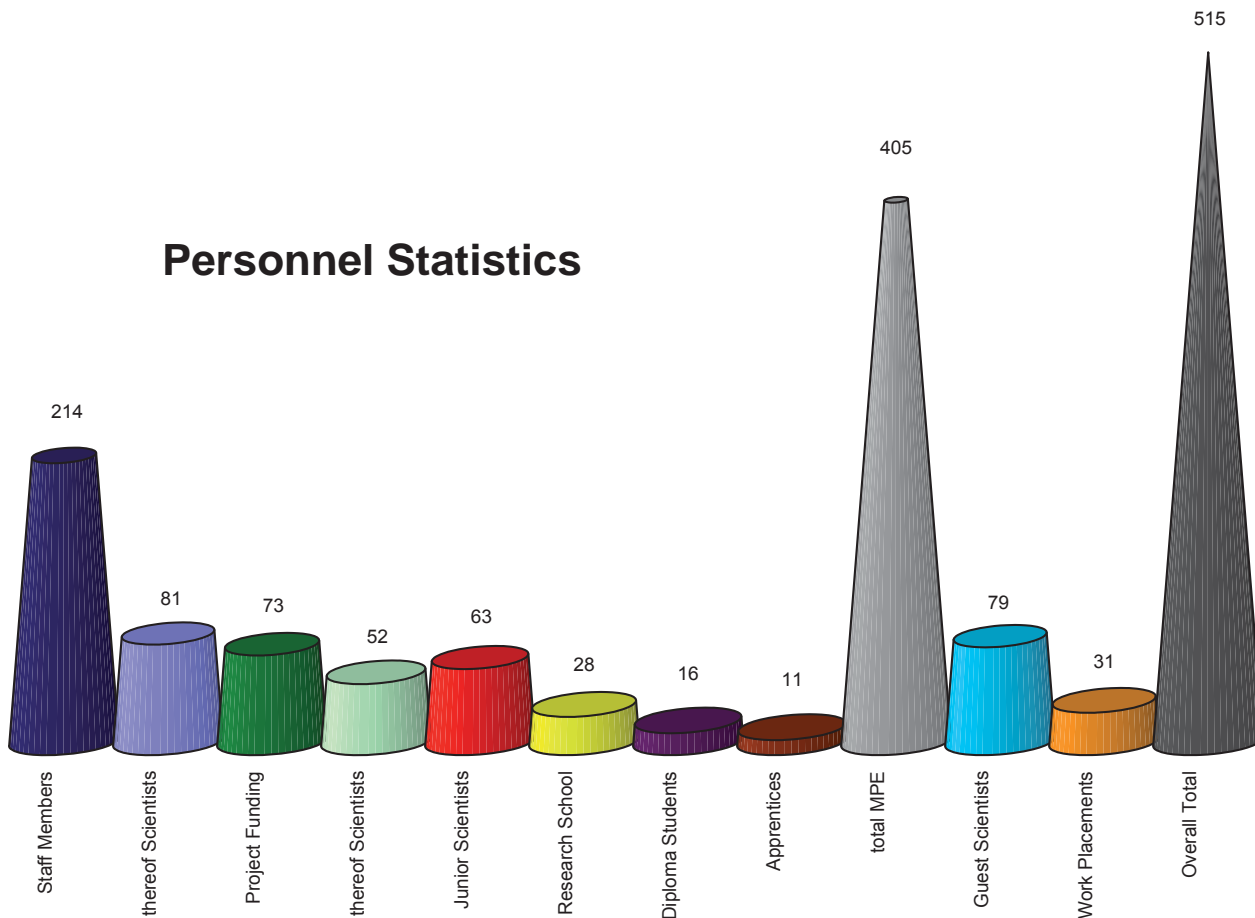
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Chmielewski, E. (Head)
 Hardt, C.; Schurkus, R.

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Ihle, M. (Head)
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 Apold, G.; Arturo, A.; Bauernfeind, M; Bidell M. (until 31.1.); Bitzer, U.; Blascheck, M.; Brielmair Ch. (until 28.2.) Cziasto, U.; Doll, E.; Eicher, C. (since 1.4.) ; Ertl, M.; Gießler, Y. (since 18.6.); Goldbrunner, S.; Grasmann, M; Grohmann, M. (since 1.12.); Gschnell, H.-P.; Hübner, R.; Inhofer, I.; Jäkel, T.; Karing, W.; Keil, M.; Kestler, L.; Kürzinger, T.; Lochner, C.; Nagy, A.; Neun, A. (BR); Peischl, M.; Preisler, C.; Reither, A.; Rochner, R.; Rossa, E.; Sandtner, P.; Sarsilmaz, E. (since 1.9.); Scheiner, B.; Schneider, D. (until 31.5.); Seeger, G.; Steinle, R.; Strecker, R.; Stuiber, A.; Thiess, L.; Troll, P.; Vogt, J.P.

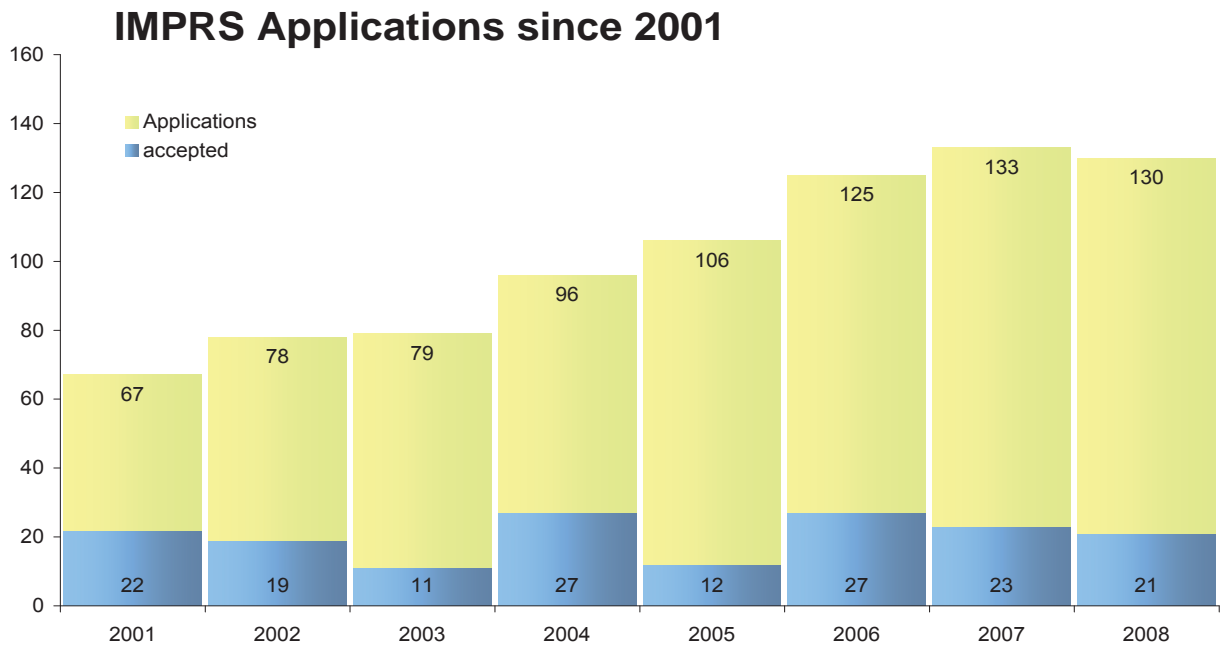
Personnel Statistics



International Max-Planck Research School (IMPRS) for Astrophysics

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

Southern Observatory (ESO). In the academic year 2007 a total of 72 student took part in the program, thereof 22 at the MPE. 130 students applied for the year 2008, 21 of those were accepted



Summary of annual applications for the participation in the IMPRS program in Garching. Since its start in 2001 a total of 814 students applied.

Science Project Teams

(Project managers underlined)

Space Physics of the Near-Earth Environment

ACE / SEPICA
Klecker, Zanker-Smith

CLUSTER / CIS
Klecker, Marghitu, Paschmann, Pitout, Scholer.

CLUSTER / Data Center
Georgescu, Klecker, Leistner, Volwerk.

CLUSTER / EDI
Georgescu, Haaland, Paschmann, Vaith.

Double Star
Georgescu, Haaland, Klecker, Paschmann, Pitout.

ROSETTA-Lander
Haerendel (IUB), Thiel.

SAMPEX / HILT
Klecker, Scholer.

SOHO / CELIAS
Klecker, Scholer, Zanker-Smith.

STEREO / PLASTIC
Klecker, Zanker-Smith.

Infrared / Submillimeter-Astronomy

Deputies to the Director of the Group
Lutz, Tacconi.

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

Herschel-PACS
Bart, Bauer, Berta, Cesarsky, Contursi, Eibl, Feuchtgruber, Friedl, Geis, Gueguen, Hartinger, Jakob, Katterloher, Kleiser, Kornberg, Krombach, Lutz, T. Müller, Osterhage, Poglitsch, Popesso, Schmid, Sturm, Thiel, Wetzstein, Wieprecht, Wiezorrek, Wildgruber.

KMOS
Agudo Berbel, Davies, Förster-Schreiber, Hofmann.

LBT Lucifer
Bouché, Buschkamp, Eisenhauer, Gemperlein, Gillessen, Gräter, Hofmann, Lederer, Straube.

LBT IFU
Eisenhauer, Haug, Müller-Sanchez.

PARSEC
Davies, Huber S, Kellner, Ott, Rabien, Schropp, Ziegleder.

PRIMA Testbed
Abuter, Bartko, Eisenhauer, Gräter, Haug, Kellner, Pfuhl, Rabien, Thiel.

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

GaAs-Detektoren
Jakob, Katterloher.

Galaktisches Zentrum
Abuter, Bartko, Dodds-Eden, Eisenhauer, Genzel, Gillessen, Hamaus, Martins, Ott, Pfuhl, Rank, Trippe.

Galaxienkerne
Contursi, Davies, Engel, S. Friedrich, Genzel, Hicks, Hamaus, Lutz, Müller-Sanchez Schweitzer, Sturm, Tacconi.

Galaxien bei hoher Rotverschiebung
Berta, Bouché, Buschkamp, Cresci, Eisenhauer, Förster-Schreiber, Genel, Genzel, Lutz, Popesso, Sturm, Tacconi, Valiante.

X-Ray Astronomy

Astrogrid-D
Carlson, Voges.

CAST
Bräuninger, Strüder.

Chandra
Burwitz, Predehl.

Euro-VO_DCA
Lemson, Voges, Zuther.

GAVO
Kim, Lemson, Voges.

ROSAT
Haberl, Voges.

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

SDSS
Böhringer, Boller, Hasinger, Huber M., König, Voges.

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

Skinakas Observatorium
Bauer, Hasinger, Lieb.

Swift
Ajello, Brunschweiler, Greiner, Hasinger, Strong.

XEUS

Aschenbach, Boller, Bräuninger, Braig, Burkert, Friedrich, Hasinger, Meidinger, Predehl, Schaller, Strüder, Trümper, Vongehr.

XEUS-WFI

Andritschke, Hälker, Herrmann, Meidinger, Mießner, Schopper, Strüder, Treis, Weidenspointner.

XMM-Newton

Aschenbach, Bohnet, Boller, Bornemann, Briel, Brunner, Burkert, Dennerl, Freyberg, Haberl, Hartner, Hengmith, Hirschinger, Huber, Kink, Meidinger, Müller, Pfeffermann, Pietsch, Predehl, Strüder, Trümper.

Gamma-Ray Astronomy**CGRO (COMPTEL, EGRET)**

Collmar, Diehl, Kanbach, Orlando, Petry, Strong.

GLAST

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

GROND

Afonso, Bornemann, Clemens, Greiner, Hasinger, Huber H., Krühler, Löw, Mican, Prymak, Schrey, Szokoly, Yoldas.

INTEGRAL

Diehl, Kienlin v., Kretschmer, Lang, Lichti, Petry, Rehm, Strong, Zhang.

OPTIMA

Duscha, Kanbach, Schrey, Steinle H., Stefanescu.

GRIPS

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

Nukleare Astrophysik

Diehl, Kienlin, Kretschmer, Lang, Lichti, Strong.

Relativistische Teilchenbeschleuniger

Ajello, Bottacini, Collmar, Diehl, Duscha, Greiner, Kanbach, Orlando, Sala, Stefanescu, Strong.

Gamma-Ray Bursts

Clemens, Duscha, Greiner, Huber B., Kanbach, Krühler, Küpcü-Yoldas, McBreen, Prymak, Savaglio, Stefanescu, Yoldas.

Theory & Complex Plasmas**Plasmlab**

Hagl, Ivlev, Konopka, Morfill, Sütterlin, Tarantik, Thomas, Rubin-Zuzic.

PK-3 Plus

Hagl, Huber, Ivlev, Konopka, Morfill, Rothermel, Sütterlin, Tarantik, Thomas, Rubin-Zuzic.

PK-4

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

PKE-Nefedov

Hagl, Huber, Ivlev, Khrapak, Klumov, Konopka, Kretschmer, Mokler, Morfill, Rothermel, Rubin-Zuzic, Sütterlin, Thomas, Zhdanov.

Praktikumsversuch "Plasmakristall"

Kretschmer, Morfill, Schwabe, Thoma.

Streifenelectrode

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

Adaptive Electrode

Antonova, Chaudhuri, Huber, Morfill, Steffes, Thomas.

Diamant-Labor

Jakob, Morfill, Rothermel, S. Shimizu, Thomas.

3-D-Diagnostik

Antonova, Chaudhuri.

Hochenergie Astrophysik

Arevalo, Braglia, Böhringer, Faßbender, Pierini, Pratt, Santos, Simionescu, Zhang, Zimer.

GEC-Labor

Knappek, Konopka, Morfill, Sütterlin, Thomas, Rubin-Zuzic.

Hochfeld Labor

Deysenroth, Konopka, Kretschmer, Morfill, Schwabe, Steffes, Tarantik.

Nicht-lineare Dynamik, Komplexe Systeme

Aschenbrenner, Böhm, Bunk, Jamitzky, Monetti, Müller, Pompl, Räth, Scheingraber.

Plasma Medizin

Bunk, Morfill, Pompl, Shimizu, Steffes.

Optical and Interpretative Astronomy**ASTRO-WISE**

Bender, Saglia, Wilman.

Galaxy Dynamics

Bender, Gerhard, Saglia, Thomas.

KMOS

Bender, Saglia.

Large Scale Structure

Bender, Phleps, Schücker, 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

Böhringer

Cosmology, Large-Scale Structure and Galaxy Clusters (WS 07/08)

Boller

Advanced IMPRS lectures on AGN Science (SS 07)

Bender/Saglia

IMPRS introductory course (SS 07)

Genzel

Advanced Course: Experimental Astrophysics: Radio to Optical Wavelength Bands (SS 07)

Hasinger

Advanced Course: Experimental Astrophysics: High Energy Astrophysics

IMPRS MPI for Physics

Thoma

Introduction to Thermal Field Theory (SS 07)

Ludwig-Maximilians-Universität München

Annaratone

Introduction to Complex Plasma (WS 06/07)

Becker

Weißer Zwerge, Neutronensterne und Schwarze Löcher (WS 06/07 und 07/08)

Astrophysikalisches Doktorandenseminar mit den Studenten der International Max-Planck Research School on Astrophysics an der Universität München (WS 06/07 und 07/08)

Gravitationswellen und ihr Nachweis (SS 07)

Astrophysikalisches Doktorandenseminar mit den Studenten der International Max-Planck Research School on Astrophysics an der Universität München (SS 07)

Bender

Astronomisches Hauptseminar zur Astrophysik: „Tools in modern Astrophysics II“ (SS 07)

Astrophysikalisches Praktikum „A“ und Übungen (SS 07)

Astrophysikalisches Praktikum „B“ und Übungen (SS 07)

Astronomisches Kolloquium (SS 07)

Extragalactic Journal Club (E) (SS 07)

Extragalactic group seminar (E) (SS 07)

Dark Matter and Dark Energy (E) (WS 07/08)

Astronomisches Hauptseminar zur Astrophysik: „Tools in modern Astrophysics III“ (WS 07/08)

Astrophysikalisches Praktikum „A“ und Übungen (WS 07/08)

Astrophysikalisches Praktikum „B“ und Übungen (WS 07/08)

Astronomisches Kolloquium (WS 07/08)

Extragalactic Journal Club (E) (WS 07/08)

Extragalactic group seminar (E) (WS 07/08)

Böhringer/Schuecker

Kosmologische Inflation und Dunkle Energie (WS 06/07)

Burkert

Sternentstehung (SS 07)

Gillessen

Astronomisches Hauptseminar zur Astrophysik „Tools in modern astrophysics“ (WS 06/07, SS 07, WS 07/08)

Jamitzky

Programmierkurs Java (SS 07)

Grenzflächen und weiche Materie (SS 07)

Trippe

Seminar „Tools in Modern Astrophysics“ (WS 06/07)

Technische Universität München

Eisenhauer

High Angular Resolution Astronomy: Telescopes, Adaptive Optics, Interferometry, and more (SS 07)

Einführung in die Astrophysik (WS 07/08)

Diehl

Seminar zu Fragen der Astrophysik: „Spectroscopy of Cosmic Light: Elements throughout the Universe“ (WS 06/07) mit Greiner, Hasinger, TUM/LMU/MPA Professoren

Seminar zu Fragen der Astrophysik: „Nuclei in the Cosmos“ (SS 07) mit Greiner, Hasinger, TUM/LMU/MPA Professoren

Seminar zu Fragen der Astrophysik: „Accelerators throughout the Cosmos“ (WS 07/08) mit Greiner, Hasinger, TUM/LMU/MPA Professoren

Kretschmer, M.

Fortgeschrittenenpraktikum III und IV - Versuch 03: Plasmakristall (WS 06/07)

Universität Polytechnica de Catalunya, Barcelona, Spain

Diehl

Astrophysics Lecture Series for Graduate Students: „Nuclear Astrophysics with Cosmic Gamma-ray Observations“ (SS 07)

University of California Berkeley, USA

Genzel

Modern Experimental Astrophysics: New Tools for Infrared Astronomy (07)

Johann Wolfgang Goethe-Universität Frankfurt am Main

Boller

Einführung in die Astrophysik I (WS 06/07)
Astrophysik III - Master Course (WS 06/07)
Einführung in die Astrophysik II (SS 07)
Astrophysikalisches Praktikum (SS 07)
Astrophysik III - Master Course (WS 07/08)
Einführung in die Astrophysik I (WS 07/08)

Universität Gießen

Thoma

Physik des Quark-Gluon-Plasmas (SS 07)
Einführung in die Transporttheorie (WS 07/08)

University of Padova, Italy

Boller

Distribution functions and advanced AGN science (SS 07)

Nicolaus Copernicus University, Torun, Poland

Summer School on „Active Galactic Nuclei at the highest angular resolution: theory and observations“

Davies

Adaptive Optics: Observations and Prospects for AGN Studies (07)

Organisation of Seminars and Conferences

Astronomy with Laser Guide Star Adaptive Optics, Schloß Ringberg, Germany, 29.10.-2.11.2007, Organisation: W. Brandner, S. Hippler, R. Davies.

Dynamics of Galaxies, St. Petersburg, Russia, 6.-10.8.2007, Organisation: K.C. Freeman, L. Ossipkov, I. Pasha, J. Sellwood, J. Binney, T. de Zeeuw, J. Einasto, O. Gerhard, Yu. Gnedin, A. Rastorguev, L. Sparke, R. Spurzem, A. Toomre.

EPIC Consortium Conference, University of Leicester, Leicester, UK, 11.-13.9.2007, Organisation: M. Arnaud, U.G. Briel, P. Caraveo, P. Ferrando, E. Kendziorra, G. Palumbo, S. Sembay, M. Turner, G. Villa.

European Geosciences Union, General Assembly 2007, Planetary and Solar System Sciences Programme, Vienna, Austria, 15.-20.4.2007, Organisation: H. Krüger, T.G. Müller, G. Schwehm.

Five Years of INTEGRAL, Chia Laguna, Italy, 17.-19.10.2007, Organisation: P. Ubertini, R. Diehl, A. Bazzano, C. Winkler.

Galactic Center Workshop 2007: Celebrating 15 years of precision astronomy in the Galactic Center - hot topics and observational challenges, Schloß Ringberg, Germany, 17.-23.6.2007, Organisation: S. Gillessen, R. Genzel, S. Harai-Ströbl, L. Tacconi.

Galactic Positrons I., Berne, Switzerland, 24.-27.1.2007, Organisation: N. Prantzos, R. Diehl.

Galactic Positrons II, Berne, Switzerland, 24.-26.10.2007, Organisation: N. Prantzos, R. Diehl.

Gas Accretion and Star Formation in Galaxies, Garching, Germany, 10.-14.9.2007, Organisation: J. Bergeron, A. Burkert, C. Carilli, F. Combes, A. Fabian, R. Genzel, O. Gerhard, T. Heckman, G. Kauffmann, R. Kennicutt, E. Quataert, P. Rosati, R. Sancisi, K. Sembach, M. Shull, I. Smail, J. Tan.

High Energy in Space - An International Symposium in Memory of Beppo Occhialini and Livio Scarsi, Palermo, Italy, 11.-13.10.2007, Organisation: J.A.M. Bleeker, M. Brai, G. D'Alì Staiti, M.C. Maccarone, L.L. Maraschi, G. Palumbo, G. Perola, P. Picozza, K. Pinkau, A. Russo, B. Sacco, S. Sciortino, G. Sironi, J. Trümper, A.A. Watson.

PK-3 Plus and PK-4 Science Meeting, Schloß Ringberg, Germany, 24.-26.1.2007, Organisation: M.H. Thoma, G.E. Morfill, H.M. Thomas.

REXCESS Collaboration Workshop, Frauenwörth am Chiemsee, Germany, 14.-16.5.2007, Organisation: G.W. Pratt, H. Böhringer.

Simbol-X: the hard X-ray universe in focus, Bologna, Italy, 14.-16.5.2007, Organisation: M. Arnaud, U.G. Briel, J.-L. Counil, E. Cavazzuti, P. Ferrando, F. Fiore, P. Giommi, A. Goldwurm, P. Laurent, F. Lebrun, G. Malaguti, S. Mereghetti, G. Micela, G. Pareschi, J.-P. Roques, G. Tagliaferri.

SOFIA Vision 2020 Workshop, Caltech, Pasadena, USA, 6.-8.12.2007, Organisation: B. Gehrz, R. Genzel, A. Harris, D. Jewitt, A. Karpov, C. Lada, K. Menten, H. Moseley, D. Neufeld, A. Poglitsch, J. Stutzki, L. Tacconi, A. Tielens, E. Young, J. Zmuidzinas, E. Becklin, H. Hasan, T. Roellig.

X-rays from nearby galaxies, Madrid, Spain, 5.-7.9.2007, Organisation: M. Ehle, W. Pietsch, R. Di Stefano, M. Gilfanov, S. Immler, K. Makishima, A. Prestwich, A. Read, T. Roberts, D. Strickland, G. Trinchieri, R. Warwick, S. Carpano, B. Altieri, M. Arpizou, M. Cadolle Bel, N. Loiseau, L. Metcalfe, A. Pollock, R. Saxton, R. Willatt.

MPE Workshop on Solar System Plasmas, Ringberg Castle, Germany, 29.-31.1.2007, Organisation: G. Haerendel, G. Paschmann, M. Rieperding.

CIS/HIA Cluster and Double Star Team Meeting, Berg, Germany, 19.-21.6.2007. Organisation: B. Klecker, J. Zanker-Smith.

Publications

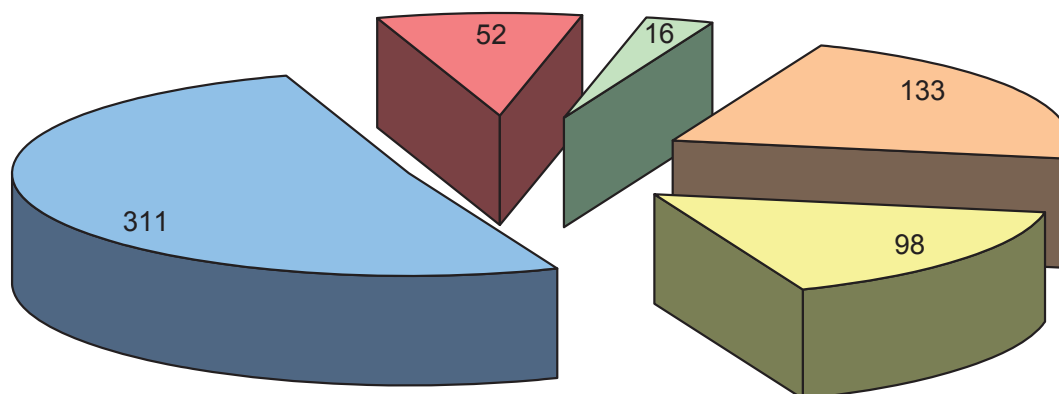
Here we present a tabular and graphical summary of our publication activities in 2007. The publications are counted by science group and publication type. The individual publications are listed consecutively.

Summary of MPE Publications in 2007

Science Group	refereed Publications	refereed Proceedings	Instrument. Publications	non-refereed Publications	Telegrams/Circulars	Talks	Poster
Space Plasma	26 (8)	0 (0)	1 (0)	2 (1)	0 (0)	47 (17)	4
IR	43 (18)	1 (1)	1 (0)	26 (14)	5 (2)	84 (59)	8
X-Ray	113 (26)	23 (9)	14 (5)	34 (19)	35 (20)	149 (65)	5
Gamma	25 (8)	20 (9)	0 (0)	31(16)	48 (19)	40 (23)	11
Theory	70 (36)	7 (6)	0 (0)	14 (5)	1 (0)	118 (59)	12
OPINAS	34 (18)	1 (0)	0 (0)	26 (8)	9 (0)	26 (13)	8
Total	311 (114)	52 (25)	16 (5)	133 (63)	98 (41)	460 (250)	48

The red numbers in brackets give the number of publications with a first author from MPE or invited talks, respectively. 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. In total MPE Scientists gave 49 public talks and additionally published 12 popular science articles.

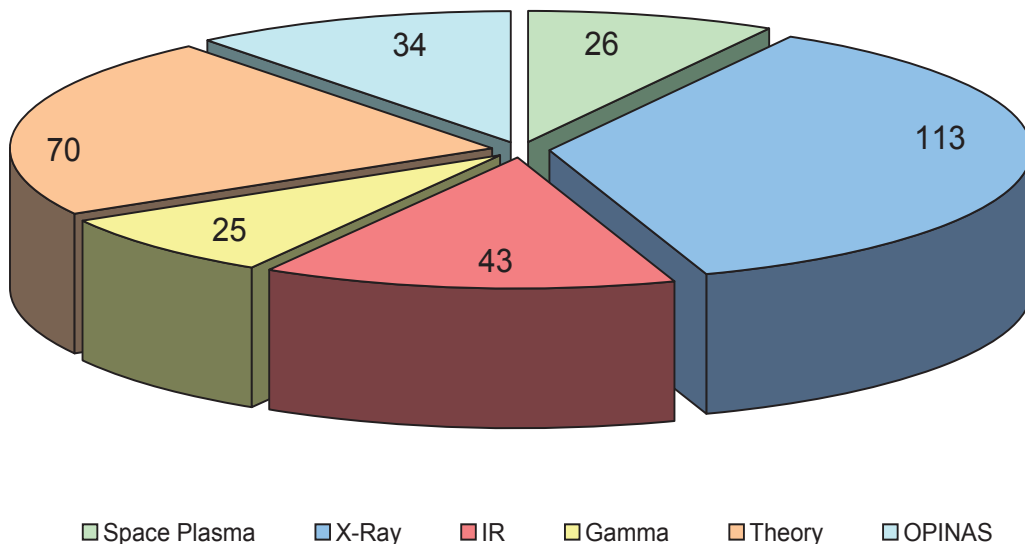
Total Publications 2007 (by Type)



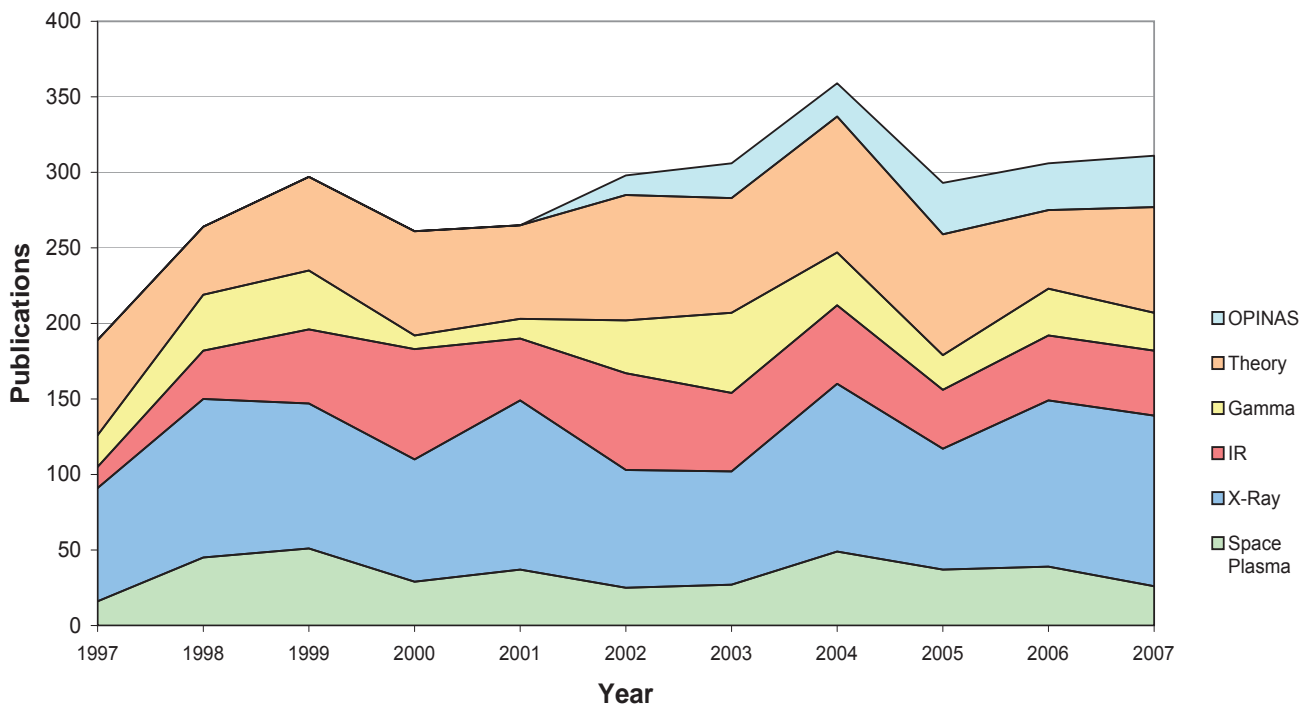
■ refereed Publications
■ instrumental Publications
■ Telegrams/Circulars

■ refereed Proceedings
■ non-refereed Publications

Refereed Publications 2007 (by Science Group)



History of MPE Refereed Publications (by Science Group)



Refereed Publications

- Abdo, A.A., B. Allen, D. Berley, E. Blaufuss, S. Casanova, C. Chen, D.G. Coyne, R.S. Delay, B.L. Dingus, R.W. Ellsworth, L. Fleysher, R. Fleysher, I. Gebauer, M.M. Gonzalez, J.A. Goodman, E. Hays, C.M. Hoffman, B.E. Kolterman, L.A. Kelley, C.P. Lansdell, J.T. Linnemann, J.E. McEnery, A.I. Mincer, I.V. Moskalenko, P. Nemethy, D. Noyes, J.M. Ryan, F.W. Samuelson, P.M. SazParkinson, M. Schneider, A. Shoup, G. Sinnis, A.J. Smith, A.W. Strong, G.W. Sullivan, V. Vasileiou, G.P. Walker, D.A. Williams, X.W. Xu and G.B. Yodh: Discovery of TeV Gamma-Ray Emission from the Cygnus Region of the Galaxy. *Ap. J. Lett.* 658, L33-L36 (2007).
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Poster

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- Bauer, M. et al.: Röntgenbild der Starburstgalaxie NGC 253, Max-Planck Institut für extraterrestrische Physik, München, Germany, May 2007.
- Braglia, F. et al.: Flaming bright galaxies along filaments in A2744, Tracing Cosmic Evolution with Galaxy Clusters: Six Years Later, Sesto Di Pusteria, Italy, June 2007.
- Bunescu, C. et al.: Cluster/FAST conjunctions as a tool to investigate auroral acceleration, EGU General Assembly, Vienna, Austria, April 2007.
- Chaudhuri, M. et al.: Characterization of the electrostatic potential behind an absorbing dust particle in highly collisional drifting plasma, 34th EPS Conference on Plasma Physics, Warsaw, Poland, July 2007.
- Coccatto, L. et al.: VLT/VIMOS Integral field kinematics of the Giant Low Surface Brightness galaxy ESO 323-G064, Formation and evolution of galaxy disks, Vatican Observatory, Rome, Italy, October 2007.
- Collmar, W. et al.: Recent Multifrequency Campaigns of the Gamma-Ray Blazar 3C 279, First GLAST Symposium, Stanford, USA, February 2007.
- Das, P. et al.: Dynamics and dark matter halo of NGC 5846, Galaxy growth in a dark universe, Heidelberg, Germany, July 2007.
- Das, P. et al.: The Dark Matter Haloes and Orbital Structure of Elliptical Galaxies, Science Week, Excellence Cluster Universe, Garching, Germany, December 2007.
- Eisenhauer, F. et al.: GRAVITY: microarcsecond astrometry and deep interferometric imaging with the VLTI, A Giant Step: from Milli- to Micro-arcsecond Astrometry, Shanghai, China, October 2007.
- Fabricius, M. et al.: VIRUS-WA Fiber Based Integral Field Unit Spectrograph for the Study of Galaxy Bulges, IAUS 245 Formation and Evolution of Galaxy Bulges University of Oxford, UK, July 2007.
- Henze, M. et al.: Treasure Hunting in the Archive: A Systematic Nova Search in M31 on a Large Number of Schmidt plates, 80th Annual Scientific Meeting of the Astronomische Gesellschaft jointly with the 5th biennial Workshop Astroparticle Physics in Germany, Würzburg, Germany, September 2007.
- Hicks, E. et al.: Kinematics of Stars and Gas in the Central 100 pc of AGN, Dynamics of Galaxies, St. Petersburg, Russia, August 2007.
- Kleckner, B. et al.: Ionic charge states of solar energetic particles: a survey of interplanetary shock related events, EGU General Assembly, Vienna, Austria, April 2007.
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- Marghitu, O. et al.: Auroral electrodynamics on arc and oval scales: Insights from a new technique, EGU General Assembly, Vienna, Austria, April 2007.
- Merloni, A. et al.: Towards a full AGN synthesis model: Unveiling black holes' growth with deep X-ray surveys, Excellence Cluster Universe Science Week, München, Germany, December 2007.
- Mitic, S. et al.: Convective dust clouds in a complex plasma, Interrelationship between Plasma Experiments in Laboratory and Space (IPELS 2007), Cairns, Australia, August 2007.
- Monetti, R. et al.: Application of the Scaling Index Method to uCT Images of Human Trabecular Bone for the Characterization of Biomechanical Strength, SPIE Conference on Medical Imaging, San Diego, USA, February 2007.
- Mueller Sanchez, F. et al.: SERPIL/LIINUS: a design study for a Near-Infrared Interferometric Integral-field Spectrometer for the LBT, DGA Splinter meeting, Würzburg, Germany, September 2007.
- Mueller Sanchez, F. et al.: SERPIL: a Near-Infrared Interferometric Integral-field Spectrometer for the LBT, Active Galactic Nuclei at the highest angular resolution: Theory and Observations, Torun, Poland, September 2007.
- Müller, A.: Probing Black Holes with Gravitationally Redshifted Emission Lines, Spring Symposium 'Black Holes', Space Telescope Science Institute (STScI), Baltimore, USA, April 2007.
- Müller, T.G. et al.: 3.2 mm lightcurve observations of (4) Vesta and (9) Metis with the Australia Telescope Compact Array, European Geosciences Union, General Assembly 2007, Planetary and Solar System Sciences Programme, Vienna, Austria, April 2007.
- Noyola, E. et al.: Evidences for the presence of an intermediate mass black hole in Omega Centauri, 2007 STScI spring symposium: Black Holes, Baltimore, USA, April 2007.
- Orlando, E. et al.: GLAST detectability of gamma-ray emission from photon fields of luminous stars, First GLAST Symposium, Stanford, USA, February 2007.
- Orlando, E. et al.: The extended solar emission - an

analysis of EGRET data, 1st GLAST Science Symposium, Stanford, USA, February 2007.

Räth, C. et al.: Analyzing μ CT images of bone specimen with wavelets and scaling indices: Which texture measure does better to depict the trabecular bone structure?, Medical Imaging 2007: Image Processing, San Diego, USA, February 2007.

Sala, G. et al.: The black-hole transients XTE J1817-330 and XTE J1856+053, International Conference on Astrophysics of Compact Objects, Huangshan, China, July 2007.

Schwabe, M. et al.: Self-Excited Density Waves in a Complex Plasma with Thermophoresis, The 9th International Workshop on the Interrelationship between Plasma Experiments in Laboratory and Space, Palm Cove, Australia, August 2007.

Shimizu, S. et al.: Microcrystalline diamond growth on seed particles and thermophoretic effect on levitated fine diamond particles in an RF plasma sheath, 18th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, and Nitrides, Berlin, Germany, September 2007.

Stefanescu, A. et al.: OPTIMA-Burst A High Time Resolution Instrument for GRB Afterglow Studies, 070228: The Next Decade of GRB Afterglows, Amsterdam, The Netherlands, March 2007.

Stefanescu, A. et al.: OPTIMA-Burst Catching GRB Afterglows (and other Transients) with High Time Resolution, Cosmic Matter 80th Annual Scientific Meeting of the Astronomische Gesellschaft jointly with the 5th biennial Workshop on Astroparticle Physics, Würzburg, Germany, September 2007.

Stiele, H. et al.: A deep XMM-Newton survey of M 31, 80th Annual Scientific Meeting of the Astronomische Gesellschaft jointly with the 5th biennial Workshop Astroparticle Physics in Germany, Würzburg, Germany, September 2007.

Strong, A.W. et al.: The nature of the diffuse emission above 100 keV from the Galactic ridge, 1st GLAST Science Symposium, Stanford, USA, February 2007.

Sturm, E. et al.: Star formation and activity in infrared bright galaxies at $0 < z < 1$. A PACS GT Key Programme, Herschel Open Time Key Projects Workshop, ESTEC, Noordwijk, The Netherlands, February 2007.

Ulubay-Siddiki, A. et al.: Self-Gravitating Warped Disks around Supermassive Black Holes, Summer School "Active Galactic Nuclei at the Highest Angular Resolution: Theory and Observations", Torun, Poland, August 2007.

Ventimiglia, G. et al.: Intracluster Stars in Nearby Galaxy Cluster, Tracing cosmic evolution with clusters of galaxies: 6 years later, Sesto Pustaria (BZ), Italy, June 2007.

Volwerk, M. et al.: Magnetospheric response to a fast flow in the tail: A THEMIS approaching configuration study, EGU General Assembly 2007, Vienna, Austria, April 2007.

von Kienlin, A. et al.: Calibration of the GLAST Burst Monitor detectors, First GLAST Symposium, Stanford, USA, February 2007.

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Yaroshenko, V. V. et al.: Excitation of dust density waves in dusty plasmas of planetary rings, ICPIG 2007, Prague, Czech Republic, July 2007.

Zhdanov, S. et al.: "Quasi-molecules" of microparticles in complex plasmas under microgravity conditions and in ground-based laboratory experiments, Molecules in Space & Laboratory, Paris, France, May 2007.

Zhdanov, S. et al.: Circulation' dynamo in complex plasma, EGU General Assembly 2007, Vienna, Austria, April 2007.

Zhdanov, S. et al.: Dislocation nucleation and motion observed in a plasma crystal, International Union of Theoretical and Applied Mechanics, IUTAM Symposium: Multiscale Plasticity of Crystalline Materials, Eindhoven, The Netherlands, November 2007.

Zibetti, S. et al.: Do fossil poor clusters challenge CDM?, Tracing Cosmic Evolution with Clusters of Galaxies: Six Years Later, Sesto, Italy, June 2007.

Talks

Ajello, M.: The Cosmic X-ray background with Swift/BAT, contributed talk, What's next for Swift, State College, Penn State, USA, May 2007.

Ajello, M.: The Cosmic X-ray background with Swift/BAT, contributed talk, X-ray Surveys: Evolution of accretion, Star-formation and the Large Scale Structure, Rhodes, Greece, July 2007.

Ajello, M.: Studies of AGN and the Cosmic X-ray background, colloquium, Osservatorio Astronomico di Brera, Italy, October 2007.

Andritschke, R.: eROSITA, contributed talk, SPIE Optics+Photonics 2007, San Diego, USA, August 2007.

Andritschke, R.: Fast large-area spectroscopic and imaging CCD detectors for X-ray astronomy with eROSITA

and for exploration of the nanocosmos, contributed talk, SPIE Optics + Photonics 2007, San Diego, USA, August 2007.

Aschenbach, B.: Drehimpulsmessungen von Schwarzen Löchern, invited talk, Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Heidelberg, Germany, March 2007.

Aschenbach, B.: Measurements of mass and spin of black holes with QPOs, invited talk, Multifrequency Behaviour of High Energy Cosmic Sources, Vulcano, Italy, May 2007.

Bauer, M.: The Diffuse X-ray Emission in the Starburst Galaxy NGC 253, contributed talk, EPIC Consortium Meeting 2007, Leicester, UK, September 2007.

Bauer, M.: The Diffuse X-ray Emission in the Starburst

- Galaxy NGC 253, contributed talk, X-rays from Nearby Galaxies, Villafranca del Castillo, Madrid, Spain, September 2007.
- Becker, W.: Future optical and X-ray observatories for pulsar studies, colloquium, University of Nevada, Las Vegas, USA, September 2007.
- Becker, W.: Future optical and X-ray observatories for pulsar studies, invited talk, Searching & Timing - toward the SKA, Krabi, Thailand, April 2007.
- Becker, W.: Future optical and X-ray observatories for pulsar studies, colloquium, University of California, Berkeley, USA, Theoretical astrophysics center, August 2007.
- Becker, W.: Future optical and X-ray observatories for pulsar studies, colloquium, San Diego State University, Department of Physics, San Diego, USA, August 2007.
- Becker, W.: Future optical and X-ray observatories for pulsar studies, colloquium, University of Montana, Bozeman USA, September 2007.
- Becker, W.: Future optical and X-ray observatories for pulsar studies, colloquium, Istituto Nazionale di astrofisica, Osservatorio Astrofisico di Arcetri, Florence, Italy, September 2007.
- Becker, W.: Future Optical and X-ray Observatories for Pulsars, invited talk, Astrophysics of neutron stars, Istanbul, Turkey, July 2007.
- Becker, W.: Neue Großteleskope für die Astrophysik, colloquium, Fachhochschule Ravensburg-Weingarten, Germany, October 2007.
- Becker, W.: Neutronensterne und Pulsare, public talk, Volkssternwarte München, March 2007.
- Becker, W.: Studying rotation-powered pulsars with Simbol-X, contributed talk, Simbol-X Workshop, Bologna, Italy, May 2007.
- Becker, W.: Synergies with other Facilities, invited talk, Pulsar Key Science with the SKA, Krabi, Thailand, April 2007.
- Becker, W.: Vom Leben und Sterben der Sterne, public talk, Geologische Staatssammlung München, November 2007.
- Becker, W.: X-ray emission properties of old pulsars, contributed talk, MPE Science Meeting, Garching, March 2007.
- Becker, W.: X-ray emission properties of old pulsars, contributed talk, Eight years of Science with Chandra, Huntsville, USA, October 2007.
- Becker, W.: X-ray emission properties of old pulsars, invited talk, The Neutron Star Crust and Surface, Seattle USA, June 2007.
- Bender, R.: Black Holes, colloquium, Universität Bonn, Germany, February 2007.
- Bender, R.: Dark Energy, colloquium, Universität Braunschweig, Germany, January 2007.
- Bender, R.: Formation of Bulges, invited talk, Workshop on Surveys, Schloß Ringberg, Germany, April 2007.
- Bender, R.: M31 Black Hole, invited talk, Excellence Cluster Kick-off Meeting, Garching, Germany, October 2007.
- Bender, R.: M31 Black Hole, invited talk, Workshop on Galactic Center, Schloß Ringberg, Germany, June 2007.
- Blagau, A.: Determining the crossing parameters for a 2D, non-planar magnetopause by the use of timing technique, contributed talk, AEF/DPG Tagung, Regensburg, Germany, March 2007.
- Blagau, A.: Observation of Reconnection at the Magnetopause: Open Issues, contributed talk, MPE Workshop on Solar System Plasmas, Schloß Ringberg, Germany, January 2007.
- Blagau, A.: Timing technique for determining the crossing parameters of a 2D, non-planar magnetopause, contributed talk, Solar-Terrestrial Interactions – from Microscales to Global Models (STIMM 2 Workshop), Sinaia, Romania, June 2007.
- Böhringer, H.: Cluster Structure and Cosmology, contributed talk, MPE Science day, Garching, Germany, March 2007.
- Böhringer, H.: Cosmology with Galaxy Clusters, invited talk, Excellence Cluster Research Area E kick-off meeting, München, Germany, July 2007.
- Böhringer, H.: Die Neue Kosmologie, public talk, Lange Nacht der Wissenschaften, Garching, Germany, October 2007.
- Böhringer, H.: Die Neue Kosmologie, public talk, Planetarium Göttingen, Germany, January 2007.
- Böhringer, H.: Galaxy Clusters in PanSTARRS 1, contributed talk, PanSTARRS workshop, Schloß Ringberg, Germany, April 2007.
- Böhringer, H.: Statistical Properties of Galaxy Clusters, invited talk, XMM-Newton, the Next Decade, Madrid, Spain, June 2007.
- Böhringer, H.: Status of the XMM Large Programme, contributed talk, Workshop on Galaxy Cluster Structure, Frauenwörth, Chiemsee, Germany, May 2007.
- Böhringer, H.: Studies of Galaxy Clusters, invited talk, XEUS workshop, University College London, UK, April 2007.
- Böhringer, H.: Surveying X-ray Galaxy Cluster Structure and Cosmological Applications, invited talk, XMM-Newton EPIC Consortium Meeting, Leicester, UK, September 2007.
- Böhringer, H.: The past and future of X-ray galaxy cluster surveys, invited talk, Tracing Cosmic Structure Evolution with Galaxy Clusters, Sesto Pusteria, Italy, June 2007.
- Böhringer, H.: X-ray Galaxy Clusters Surveys, invited talk, X-ray Surveys, Rhodes, Greece, July 2007.
- Böhringer, H.: X-ray Studies of Galaxy Cluster Structure, colloquium, Institute of Astronomy Colloquium, Cambridge, UK, October 2007.
- Böhringer, H.: X-ray Studies of galaxy Cluster Structure, colloquium, Colloquium of the Institute of Astronomy, University of Illinois at Urbana-Champaign, USA, November 2007.
- Boller, Th.: 7 years of dedicated service with the new generation of X-ray telescopes; What have we really

- learned?, invited talk, Multifrequency behaviour of High Energy Cosmic Sources, Frascati workshop, Vulcano, Italy, May 2007.
- Boller, Th.: Anfang und Ende des Universums, public talk, Max-Planck Hauptversammlung, Kiel, Germany, June 2007.
- Boller, Th.: Anfang und Ende des Universums: Was mit uns geschehen wird, public talk, Die Lange Nacht der Wissenschaften, Garching, Germany, October 2007.
- Boller, Th.: Aus dem Leben einer Hochbegabten, invited talk, Fernsehaufzeichnung des Hessischen Rundfunks, Hessenschau, Frankfurt, Germany, June 2007.
- Boller, Th.: Der Urknall und das Ende des Universums, public talk, Evangelische Kirche Freising, Germany, December 2007.
- Boller, Th.: Die wahre Geschichte des Sterns von Bethlehem, public talk, Evangelische Kirche Eching, Germany, December 2007.
- Boller, Th.: Die Welt der Galaxien und Schwarzen Löcher, public talk, Volkshochschule Stuttgart, Germany, June 2007.
- Boller, Th.: Eine Reise vom Anfang bis ans Ende der Welt, public talk, Johanniter Orden Südbayern, München, Germany, February 2007.
- Boller, Th.: IMPRS in Germany; The CPT view, invited talk, MPG workshop in Shanghai, Shanghai, China, June 2007.
- Boller, Th.: Irrtümer, wishful thinking und gesichertes Wissen der Astrophysik, public talk, Rotary Klub München Flughafen, Munich Airport, Germany, December 2007.
- Boller, Th.: Matter under extreme gravity, invited talk, Workshop on experimental opportunities for nuclear astrophysics at the Frankfurt neutron source of the Stern-Gerlach-Zentrum - The FRANZ Neutron Source, Karlsruhe/Frankfurt, Germany, May 2007.
- Boller, Th.: On the detection of a broad and redshifted soft X-ray line in the bright NLS1 galaxy Mrk 110, invited talk, XEUS: Visions of the Extreme Universe, London, UK, April 2007.
- Boller, Th.: Schwarze Löcher, Monster im Weltraum, public talk, Max-Planck Hauptversammlung, Pinneberg, Germany, June 2007.
- Boller, Th.: Strong Gravity around Supermassive Black Holes, invited talk, The Third International Workshop on Astronomy and Relativistic Astrophysics, Joao Pessoa, Brasil, October 2007.
- Boller, Th.: Urknall, Schwarze Löcher, Das Ende des Universums, public talk, Rotary Klub München, München, Germany, March 2007.
- Boller, Th.: Wenn Sterne sterben, public talk, Rotary Klub Germering, Germany, September 2007.
- Bouché, N.: A first comparison of the kinematic properties of different samples at $z \sim 1.5-2.5$, contributed talk, Galaxy growth in a dark Universe, Heidelberg, Germany, July 2007.
- Bouché, N.: A SIMPLE way to identify MgII absorbers, colloquium, University of Chicago, USA, March 2007.
- Bouché, N.: A SIMPLE way to study superwinds at $z > 1$, colloquium, University of Santa Barbara, USA, February 2007.
- Bouché, N.: From MgII Absorbers to a SIMPLE way to study superwinds, colloquium, Institute of Astronomy, Cambridge, UK, June 2007.
- Bouché, N.: The SINFONI MgII Program for Line Emitters (SIMPLE): a SIMPLE way to study superwinds at $z = 1$, colloquium, Universidad de Concepcion, Chile, November 2007.
- Bouché, N.: The SINFONI MgII program for Line Emitters (SIMPLE): A SIMPLE way to study superwinds, invited talk, Gas Accretion and Star Formation in Galaxies, Garching, Germany, September 2007.
- Bouché, N.: What can SINFONI do for you?, colloquium, Observatoire Astrophysique de Marseille Provence, Marseille, France, December 2007.
- Bouché, N.: What do QSO absorbers and superwinds have in common?, colloquium, Tucson, USA, Feb 2007.
- Braglia, F.: Giant star-forming galaxies along filaments infalling on a massive cluster, contributed talk, REXCESS Workshop, Frauenwörth, Chiemsee, Germany, May 2007.
- Brusa, M.: Evolution of supermassive black holes from large area X-ray surveys, invited talk, Science week, München, Germany, October 2007.
- Brusa, M.: Stacking photons in large and deep X-ray surveys, invited talk, 8 years of science with Chandra, Huntsville, USA, October 2007.
- Brusa, M.: The AGN content of the cosmos, invited talk, Scientific meeting of MPE, München, Germany, March 2007.
- Brusa, M.: The most obscured AGN in COSMOS, contributed talk, COSMOS meeting, New York, USA, June 2007.
- Brusa, M.: The most obscured and highest redshift AGN in COSMOS, invited talk, X-ray surveys: evolution of accretion, star formation and the large scale structure, Rhodos, Greece, July 2007.
- Brusa, M.: The XMM-COSMOS survey: results and perspectives, colloquium, Space Telescope Science Institute, Baltimore, USA, September 2007.
- Brusa, M.: The XMM-Newton COSMOS survey: results and perspectives, invited talk, XMM-Newton: the next decade, ESAC-Villafranca de Castilla-Madrid, Spain, June 2007.
- Brusa, M.: X-ray selected obscured AGN in COSMOS, contributed talk, Obscured AGN accross cosmic time, Seon, Germany, June 2007.
- Bunk, W.: Scaling Index Method - Examples from the Fields of Medical Diagnostics., invited talk, European Space Technology Transfer Conference 2007, München, Germany, October 2007.
- Bunk, W.: Vom Kosmos zur Medizin - Bilder und ihre Auswertung, invited talk, BVM Workshop Bildverarbeitung für die Medizin, München, Germany, March 2007.
- Burwitz, V.: High-Resolution X-ray Spectroscopy of Super Soft X-Ray Sources with XMM-Newton and Chandra,

- contributed talk, MPE Science Meeting, Garching, March 2007
- Burwitz, V.: Cross-calibration results from observations of the INS RX J1856, and the WDs HZ 43 and Sirius B, invited talk, International Astrophysical Consortium for High Energy Calibration, Lake Arrowhead, California, USA, May 2007
- Burwitz, V.: The complex and variable X-ray spectra of the super-soft source RXJ0513.9-6951, contributed talk X-ray Grating Spectroscopy Workshop, Cambridge, MA, USA, July 2007
- Burwitz, V.: Super-soft X-ray sources in the LMC, contributed talk, EPIC Consortium Meeting Leicester, September 2007
- Burwitz, V.: Classifying X-ray Supersoft sources in M31, colloquium, Astronomy Department University of Crete, Heraklion, Greece, November 2007
- Cappelluti, N.: Clustering of AGN in the COSMOS Field, contributed talk, X-ray surveys conference, Rhodes, Greece, July 2007.
- Cappelluti, N.: Status of the XMM-COSMOS survey, contributed talk, COSMOS meeting, New York, USA, June 2007.
- Cappelluti, N.: The XMM-COSMOS survey, contributed talk, EPIC Consortium meeting, Leicester, UK, September 2007.
- Chaudhuri, M.: Complex plasma research under Microgravity conditions, colloquium, Saha Institute of Nuclear Physics, Kolkata, India, October 2007.
- Chaudhuri, M.: A probable experimental procedure to calculate interaction potential in complex plasma, contributed talk, PK-3 Plus & PK-4 Science Meeting, Schloß Ringberg, Germany, January 2007.
- Chaudhuri, M.: Characterization of the electrostatic potential behind an absorbing dust particle in highly collisional drifting plasma, contributed talk, 1st Workshop on the „Dust in Fusion Plasmas“: Satellite Meeting of the 34th EPS Conference on Plasma Physics, Warsaw, Poland, July 2007.
- Chaudhuri, M.: Complex plasma research under Microgravity conditions, contributed talk, 58th International Astronautical Congress, Hyderabad, India, September 2007.
- Chaudhuri, M.: Effect of plasma absorption on the total force acting on a spherical grain in a highly collisional drifting plasma, contributed talk, 34th European Physical Society Conference on Plasma Physics, Warsaw, Poland, July 2007.
- Chaudhuri, M.: Importance of plasma absorption to characterize the total force acting on a dust particle in highly collisional drifting plasma, contributed talk, 2nd International Conference on Dusty plasmas in applications, Odessa, Ukraine, August 2007.
- Coccatto, L.: Planetary Nebulae as dynamical tracers in elliptical galaxies, contributed talk, Group retreat at Ringberg castle - MPE, Schloß Ringberg, Germany, April 2007.
- Collmar, W.: The MeV Point-Source Sky during the COMPTEL Mission, contributed talk, First GLAST Symposium, Stanford, USA, February 2007.
- Cresci, G.: Modeling the dynamics of high-z galaxies with SINFONI and LGS, contributed talk, Astronomy with LGS Adaptive Optics, Schloß Ringberg, Germany, November 2007.
- Davies, R.: A Connection between AGN Activity and Nuclear Star Formation in Seyfert Galaxies, contributed talk, AGN Across Cosmic Time, Seeon, Germany, May 2007.
- Davies, R.: AO assisted spectroscopy with SINFONI, invited talk, The 2007 ESO Instrument Calibration Workshop, Garching, Germany, January 2007.
- Davies, R.: Exploring the Starburst-AGN Connection on 10pc scales with Adaptive Optics, invited talk, Galaxy and Black Hole Evolution: Towards a Unified View, Tucson, USA, November 2007.
- Davies, R.: Exploring the Starburst-AGN Connection on 10pc scales with Adaptive Optics, colloquium, Cavendish Lab, Cambridge, UK, October 2007.
- Davies, R.: Laser Guide Star Adaptive Optics without Tip-Tilt, contributed talk, Astronomy with Laser Guide Star Adaptive Optics, Schloß Ringberg, Germany, October 2007.
- De Lorenzi, F.: Constraining the Internal Dynamics of Stellar Systems Using the NMAGIC Particle Code, contributed talk, Formation and Evolution of Galaxy Bulges, Oxford, UK, July 2007.
- Dennerl, K.: X-rays from Comets, Venus, and Mars, invited talk, Eight Years of Science with Chandra, Huntsville, USA, October 2007.
- Dennerl, K.: X-rays from non-magnetic bodies, invited talk, 4th Annual Meeting of the Asia Oceania Geosciences Society (AOGS 2007), Bangkok, Thailand, August 2007.
- Dennerl, K.: X-rays from Venus observed with Chandra, contributed talk, Venus Ground-Based Observation Workshop, ESTEC/Noordwijk, The Netherlands, December 2007.
- Diehl, R.: 26Al Diagnostics of Massive Stars in the Galaxy, contributed talk, MPE Science Meeting, Garching, Germany, March 2007.
- Diehl, R.: 26Al studies with INTEGRAL, contributed talk, „Nuclear Astrophysics 1957-2007 - Beyond the first fifty years“, Pasadena, USA, July 2007.
- Diehl, R.: Astrophysics at MeV Energies, invited talk, Annual Meeting of the German Astronomical Society, Würzburg, Germany, September 2007.
- Diehl, R.: Gamma-Ray Astrophysics, invited talk, Third VISTARS Workshop on Nuclear Astrophysics, Russbach, Austria, March 2007.
- Diehl, R.: Nuclear Astrophysics with Astronomical Gamma-Ray Line Observations, invited talk, Workshop on Nuclear Physics in Germany, Schleching, Germany, February 2007.
- Diehl, R.: Nucleosynthesis in the Galaxy and Radioactivity Gamma-Rays, contributed talk, Annual Meeting of the American Physics Society, Jacksonville, USA, April 2007.

- Diehl, R.: Observations of Cosmic Elements in Characteristic High-Energy Line Emission, contributed talk, Excellence Cluster „Origin and Evolution of the Universe“, Opening Meeting, Research Area „Cosmic Elements“, Garching, Germany, January 2007.
- Diehl, R.: Observations of Radioactive Nuclei with INTEGRAL, invited talk, FRANZ Workshop, Universität Frankfurt, Germany, May 2007.
- Diehl, R.: Observing Cosmic Nuclei with Gamma-Ray Telescopes, invited talk, Lawrence Livermore National Laboratory, Astrophysics Colloquium, Livermore, USA, July 2007.
- Diehl, R.: Observing Cosmic Nuclei with Gamma-Ray Telescopes, invited talk, IEEC Astrophysics Institute, Astrophysics Seminar, Barcelona, Spain, June 2007.
- Diehl, R.: Observing Cosmic Nuclei with Gamma-Ray Telescopes, invited talk, Third European Conference on Nuclear Physics in Astrophysics, Dresden, Germany, March 2007.
- Diehl, R.: Positrons from Cosmic Rays & Status 26A1 Studies, contributed talk, International Workshop on Positron Annihilation at ISSI, Bern, Switzerland, October 2007.
- Diehl, R.: Radioactivity gamma-rays and massive star interactions with their surroundings, invited talk, Science Week of the Excellence Cluster „Origin and Evolution of the Universe“, Garching, Germany, December 2007.
- Diehl, R.: The MeV Sky and its Possible Connections to Positron Annihilation, invited talk, January Workshop on Positron Annihilations at ISSI, Bern, Switzerland, January 2007.
- Eisenhauer, F.: A sharp look at the Galactic Center: Where we are and where we go, invited talk, Hauptkolloquium MPIFR und AIUB, Bonn, Germany, November 2007.
- Eisenhauer, F.: A sharp look to the Galactic Center black hole: where we are and where we go, invited talk, Excellence Cluster Area F Science Meeting, Garching, Germany, October 2007.
- Eisenhauer, F.: GRAVITY - Continuing a dream..., contributed talk, EII Meeting, Heidelberg, Germany, February 2007.
- Eisenhauer, F.: GRAVITY: Microarcsecond astrometry and deep interferometric imaging with the VLT, contributed talk, Science with the VLT in the ELT Era, ESO, Garching, Germany, October 2007.
- Eisenhauer, F.: GRAVITY: Microarcsecond astrometry and deep interferometric imaging with the VLTI or Probing GRAVITY close to the Schwarzschild horizon, invited talk, DFG - NSF Astrophysics Research Conference, Washington, USA, June 2007.
- Eisenhauer, F.: The Galactic Center: The Nearest Laboratory for Studying Supermassive Black Holes, colloquium, Theoretisch-Physikalisches Kolloquium, Technical University, Garching, Germany, July 2007.
- Eisenhauer, F.: The next steps in GC research: Infrared, Celebrating 15 years of precision astronomy in the Galactic Center - Hot topics and observational challenges, invited talk, Ringberg Conference, Schloß Ringberg, Germany, June 2007.
- Förster Schreiber, N.M.: Assembly and build-up of the most massive galaxies at $z \sim 2$ with COSMOS and SINFONI, contributed talk, Annual COSMOS Meeting, New York, USA, June 2007.
- FörsterSchreiber, N.M.: High redshift science with Adaptive Optics: highlights from the SINS survey, contributed talk, Conference: Astronomy with Laser Guide Star Adaptive Optics, Schloß Ringberg, Germany, October 2007.
- Förster Schreiber, N.M.: Highlights on star formation in high redshift galaxies from SINFONI, invited talk, Conference: Gas accretion and star formation in galaxies, Garching, Germany, September 2007.
- Förster Schreiber, N.M.: New insights on high-redshift galaxies from SINS, colloquium, Department of Astrophysical Sciences, Princeton University, USA, November 2007.
- Förster Schreiber, N.M.: Nouvelles perspectives sur l'évolution des galaxies par des études détaillées à grand redshift, invited talk, Annual Meeting of the Centre Observatoire du mont Mégantic, Val David, Canada, March 2007.
- Förster Schreiber, N.M.: SINS: Probing the early stages of galaxy evolution with SINFONI and NACO, contributed talk, ESO Workshop: Science with the VLT in the ELT era, Garching, Germany, October 2007.
- Förster Schreiber, N.M.: SINS: the high redshift galaxy spectroscopic imaging survey in the near-IR with SINFONI, colloquium, Conference: Galaxy growth in a dark Universe, Heidelberg, Germany, July 2007.
- Förster Schreiber, N.M.: Spatially-resolved dynamics, morphologies, and star formation properties of $z \sim 2$ galaxies and constraints on their assembly and evolution, contributed talk, Annual meeting of the DFG Schwerpunkt Program 1177, Bad Honnef, Germany, October 2007.
- Förster Schreiber, N.M.: The assembly of high redshift galaxies, colloquium, Physics, Engineering Physics and Astronomy Department, Queen's University, Kingston, Canada, March 2007.
- Förster Schreiber, N.M.: The SINS survey of high-redshift star-forming galaxies: probing early stages of galaxy evolution with SINFONI, invited talk, Max-Planck-Institut für Astrophysik, Garching, Germany, October 2007.
- Genzel, R.: Black Holes in Galaxies, colloquium, Werner Heisenberg Institute, München, Germany, November 2007.
- Genzel, R.: Black Holes in Galaxies, public talk, Rutgers University, Annual Physics Irons Lecture, Piscataway, USA, March 2007.
- Genzel, R.: Dynamics of High Redshift Galaxies, colloquium, Rutgers University, Piscataway, USA, March 2007.
- Genzel, R.: High-z Galaxy Dynamics, invited talk, University of Groningen, NOVA Colloquium, Groningen, The Netherlands, May 2007.
- Genzel, R.: High-z Galaxy Dynamics, invited talk, University of Leiden, NOVA Colloquium, Leiden, The Netherlands, May 2007.

- Genzel, R.: Massereiche Schwarze Löcher und Galaxien, colloquium, Studium Generale, University of Stuttgart, Germany, July 2007.
- Genzel, R.: Massive Schwarze Löcher und Galaxien, invited talk, Einstein-Haus, Verleihung der Einstein-Medaille, Bern, Switzerland, June 2007.
- Genzel, R.: New Multiwavelength Observations of SgrA* Flares, colloquium, University of California, Theory Seminar, Berkeley, USA, August 2007.
- Genzel, R.: Review of Observations, invited talk, Star Formation, Then and Now, Conference, University of California, Kavli Institute for Theoretical Physics, Santa Barbara, USA, August 2007.
- Genzel, R.: Spatially Resolved Dynamics of High Redshift Galaxies, colloquium, Steward Observatory/NOAO, Tucson, USA, February 2007.
- Genzel, R.: Star Formation at High Redshift, colloquium, University of California, Kavli Institute for Theoretical Physics Program: Star Formation through Cosmic Time, Santa Barbara, USA, August 2007.
- Genzel, R.: Studying Galaxy Formation: Dynamics of High-z Galaxies, colloquium, University of Bern, Switzerland, June 2007.
- Genzel, R.: The Black Hole at the Galactic Center, invited talk, Spring Symposium, Space Science Telescope Institute (STScI), Baltimore, USA, April 2007.
- Genzel, R.: The Lurking Black Hole in the Galactic Center, invited talk, AGN ESO Workshop, Seon, Germany, June 2007.
- Genzel, R.: The Massive Black Hole and Nuclear Star Cluster of the Milky Way, invited talk, Darwin Lecture of the Royal Astronomical Society, Preston, UK, April 2007.
- Genzel, R.: The Nuclear Star Cluster and Central Massive Black Hole, colloquium, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, USA, August 2007.
- Genzel, R.: Universal Star Formation Law, colloquium, University of California, Berkeley, USA, February 2007.
- Gerhard, O.E.: Baryonic and Dark Mass in the Milky Way, invited talk, Dynamics of Galaxies, St. Petersburg, Russia, August 2007.
- Gerhard, O.E.: Collisionless Dynamical Models of Elliptical Galaxies, colloquium, Potsdam-Golm, Germany, October 2007.
- Gerhard, O.E.: Self-gravitating Disks, invited talk, Galactic Center Workshop 2007, Schloß Ringberg, Germany, June 2007.
- Gerhard, O.E.: Stars between Galaxies: The Diffuse Stellar Population in Galaxy Clusters, colloquium, Zürich, Switzerland, February 2007.
- Gerhard, O.E.: Stars between Galaxies: The Diffuse Stellar Population in Galaxy Clusters, colloquium, Honolulu, USA, April 2007.
- Gerhard, O.E.: Stars between Galaxies: The Diffuse Stellar Population in Galaxy Clusters, contributed talk, Clusters of Galaxies as Cosmological Probes, Aspen, USA, February 2007.
- Gillessen, S.: 15 years of high precision astrometry in the Galactic center, contributed talk, IAU Symposium No.248 A Giant Step: from Milli- to Micro-arcsecond Astrometry, Shanghai, China, October 2007.
- Gillessen, S.: Precision measurements of stellar orbits, invited talk, Galactic Center Workshop 2007 Celebrating 15 years of precision astronomy in the Galactic Center - hot topics and observational challenges, Schloß Ringberg, Germany, June 2007.
- Gillessen, S.: Sgr A* in the Near Infrared 2007 and 2012, invited talk, SIMBOL-X: The Hard X-Ray Universe in Focus, Bologna, Italien, May 2007.
- Gillessen, S.: Stellar Populations and Star Formation in the GC, invited talk, Advanced Photonics in Application to Astrophysical Problem, Washington, USA, June 2007.
- Haaland, S.: Discontinuity analysis with Cluster, contributed talk, Solar-Terrestrial Interactions - from Microscales to Global Models (STIMM 2), Sinaia, Romania, June 2007.
- Haaland, S.: Energetic particle signatures of reconnection, contributed talk, MPE Workshop on Solar System Plasmas, Schloß Ringberg, Germany, January 2007.
- Haberl, F.: On the Prospects of an SMC survey with XMM-Newton, contributed talk, XMM-Newton: The Next Decade, ESAC, Madrid, Spain, June 2007.
- Haberl, F.: The Magnificent Seven - Nearby Cooling Neutron Stars with 1013 Gauss Magnetic Fields, invited talk, Fenomec Mini Workshop on Magnetic Fields and Neutron Star Surface, Cocoyoc, Mexico, February 2007.
- Haberl, F.: X-ray Source Populations in the Magellanic Clouds, invited talk, X-rays from Nearby Galaxies, ESAC, Madrid, Spain, September 2007.
- Haerendel, G.: Are we alone? – Searching for life in the universe and its creation, public talk, ESF/ESA/ESPI Conference, Humans in Outer Space – Interdisciplinary Odysseys, Vienna, Austria, October 2007.
- Haerendel, G.: Auroral arcs as sites of magnetic stress release, invited talk, IUGG 2007, Perugia, Italy, July 2007.
- Haerendel, G.: Convection arcs, contributed talk, MPE Workshop on Solar System Plasmas, Schloß Ringberg, Germany, January 2007.
- Haerendel, G.: COSPAR: An offspring of the IGY, invited talk, IUGG 2007, Perugia, Italy, July 2007.
- Haerendel, G.: Exploration needs cooperation, invited talk, 3rd ASI/ESA Workshop on International Cooperation for Sustainable Space Exploration, Spineto, Italy, May 2007.
- Haerendel, G.: Plasmawolken, Polarlichter und die Sonne, public talk, FS Polarstern, April 2007.
- Haerendel, G.: Progress report on a theory of auroral arcs, colloquium, Space Science Laboratory, University of California, Berkeley, USA, June 2007.
- Haerendel, G.: Sechs Stufen der Schöpfung, public talk, Vocale Ottobeuren, Germany, September 2007.
- Haerendel, G.: “The threefold way of searching for life in the universe”, Humans in Space- A Humanities Assessment of the Implications of Space Sounding and Exploration, contributed talk, Workshop of the European

- Science Foundation, Genova, Italy, March 2007.
- Haerendel, G.: What powers auroral arcs?, colloquium, University of New Hampshire, USA, November 2007.
- Hasinger, G.: Active Galactic Nuclei, invited talk, 41st ESLAB Symposium, ESTEC, Noordwijk, The Netherlands, May 2007.
- Hasinger, G.: Auf der Jagd nach der Dunklen Energie, colloquium, Seminar, GSOC Oberpfaffenhofen, Germany, May 2007.
- Hasinger, G.: Auf der Jagd nach der Dunklen Energie, public talk, Physik Modern, LMU München, Germany, April 2007.
- Hasinger, G.: Cosmic Evolution of AGN, invited talk, Obscured AGN across cosmic time, Seeon, Germany, June 2007.
- Hasinger, G.: COSMOS AGN photo-zs, invited talk, zCOSMOS meeting, MPE Garching, Germany, October 2007.
- Hasinger, G.: Das Schicksal des Universums, invited talk, Fachtagung „Schulen ans Netz“, TU München, Germany, October 2007.
- Hasinger, G.: Das Schicksal des Universums, invited talk, Österreichische Akademie der Wissenschaften, Vienna, Austria, December 2007.
- Hasinger, G.: Das Schicksal des Universums, public talk, Buchvorstellung in der Max-Planck-Gesellschaft, München, Germany, September 2007.
- Hasinger, G.: Das Schicksal des Universums, public talk, Buchvorstellung, Dussmann das KulturKaufhaus, Berlin, Germany, October 2007.
- Hasinger, G.: Das Schicksal des Universums, public talk, Carl-Orff-Gymnasium, Unterschleißheim, Germany, November 2007.
- Hasinger, G.: Das Schicksal des Universums, public talk, Lange Nacht der Wissenschaften, MPE Garching, Germany, October 2007.
- Hasinger, G.: Das Schicksal des Universums, public talk, Vortrag in der Reihe „Faszinierendes Weltall“, Universität Göttingen, Germany, Februar 2007.
- Hasinger, G.: Die Zukunft des Universums, public talk, Verein der Ingenieure, AUDI-Forum Ingolstadt, Germany, January 2007.
- Hasinger, G.: Do we understand the cosmological evolution of AGN?, colloquium, IfA Colloquium, Honolulu/Hawaii, USA, July 2007.
- Hasinger, G.: Evolution of Black Hole Obscuration, colloquium, Caltech, USA, December 2007.
- Hasinger, G.: Evolution of Black Hole Obscuration, invited talk, Excellence Cluster Area F kickoff meeting, MPE Garching, Germany, October 2007.
- Hasinger, G.: Evolution of Black Holes in the Universe, colloquium, Physics Colloquium, ETH Zürich, Switzerland, May 2007.
- Hasinger, G.: Hunting Dark Energy with Galaxy Clusters, invited talk, From Quarks to Cosmos, Bremen, Germany, June 2007.
- Hasinger, G.: Hunting Dark Energy, colloquium, Max-Planck-Institute for Physics, Munich, Germany, November 2007.
- Hasinger, G.: Suzaku Future Impact: Compact & Stellar Objects, invited talk, San Diego, December 2007.
- Hasinger, G.: Synergies between Pan-STARRS and eROSITA, contributed talk, IfA lunch seminar, Honolulu/Hawaii, USA, September 2007.
- Hasinger, G.: The ERA-NET Astronet – Towards a Strategic Plan for European Astronomy, invited talk, ASPERA Workshop, Amsterdam, The Netherlands, September 2007.
- Hasinger, G.: The Fate of the Universe, colloquium, GSI Darmstadt, Germany, May 2007.
- Hasinger, G.: The Future of X-ray Astronomy, colloquium, IfA Colloquium, Honolulu/Hawaii, USA, August 2007.
- Hasinger, G.: The X-ray Wide-Deep Survey in the COSMOS Field, colloquium, Joint Astrophysics Colloquium, ESO Garching, Germany, January 2007.
- Hasinger, G.: Weltraum: An der Grenze des Wissens, public talk, Keynote am Festakt zum 20-jährigen Jubiläum der österreichischen ESA-Mitgliedschaft, Wiener Hofburg, Vienna, Austria, October 2007.
- Heidemann, R.: Nonlinear Waves in 3D Complex Plasmas, contributed talk, PK-3 Plus & PK-4 Science Meeting, Schloß Ringberg, Germany, January 2007.
- Hicks, E.K.S.: Using LGS AO to Study Stellar and Gas Kinematics in the Central 100 pc of AGN, contributed talk, Astronomy with Laser Guide Star Adaptive Optics, Schloß Ringberg, Germany, October 2007.
- Hicks, E.K.S.: Viewing the Molecular Torus in AGN, contributed talk, ESO Workshop on Obscured AGN across Cosmic Time, Seeon, Germany, June 2007.
- Horanyi, M.: Laboratory Studies of the Lunar Surface Plasma Sheath and Methods for in situ Plasma Measurements, contributed talk, American Geophysical Union, Fall Meeting 2007, San Francisco, USA, December 2007.
- Horanyi, M.: Spokes in Saturn's B Ring: Could Lightning be the Cause?, contributed talk, American Geophysical Union, Fall Meeting 2007, San Francisco, USA, December 2007.
- Horanyi, M.: The Large-scale Structure of Saturn's E ring, contributed talk, American Geophysical Union, Fall Meeting 2007, San Francisco, USA, December 2007.
- Ivlev, A.V.: Complex Plasmas: New Discoveries in Strong Coupling Physics, invited talk, DPG Tagung, Düsseldorf, Germany, March 2007.
- Ivlev, A.V.: Complex Plasmas: Studies at the Particle Level, invited talk, Fourth International Conference on Flow Dynamics, Sendai, Japan, September 2007.
- Ivlev, A.V.: Non-Newtonian Complex Plasma Fluids, invited talk, Fourth Capri Workshop on Dusty Plasmas, Capri, Italy, May 2007.
- Ivlev, A.V.: String Fluids in Electrorheological Complex Plasmas, contributed talk, Third International Symposium on Physical Sciences in Space, Nara, Japan, October 2007.

- Kanbach, G.: Fully resolved optical polarization of the Crab pulsar, contributed talk, High Time Resolution Astrophysics: The Universe at sub-second timescales, Royal Observatory Edinburgh, Scotland, UK, September 2007.
- Kanbach, G.: GRIPS: Gamma-Ray Burst Investigations with Polarimetry and Spectroscopy: A Mission proposed for the ESA Cosmic Vision Programme, colloquium, Physics Department University of Crete, Iraklio, Heraklion, Greece, November 2007.
- Kanbach, G.: HIGH ENERGY PULSARS: Powerful electrodynamic Accelerators in Space, invited talk, Multifrequency Behaviour of High Energy Cosmic Sources, Frascati Workshop 2007, Vulcano, Italy, May 2007.
- Kanbach, G.: High time resolution observations of Cataclysmic Variables with OPTIMA, contributed talk, High Time Resolution Astrophysics: The Universe at sub-second timescales, Royal Observatory Edinburgh, Scotland, UK, September 2007.
- Kanbach, G.: High-Time-Resolution Astronomy: Astrophysical Concepts and Observational Results, colloquium, Physics Department University of Crete, Iraklio, Heraklion, Greece, November 2007.
- Kanbach, G.: Imaging through Compton Scattering and Pair Creation as well as Earth Occultation (together with Volker Schönfelder), invited talk, Observing Photons in Space, ISSI Bern, Switzerland, September 2007.
- Kanbach, G.: Konzepte und Praxis der Instrumentierung in der Hochenergieastronomie, colloquium, Kolloquium der Universität Würzburg, Fakultät für Physik, Würzburg, Germany, January 2007.
- Kanbach, G.: pnCCDs for Ultra-Fast and Ultra-Sensitive Optical and NIR Imaging, contributed talk, High Time Resolution Astrophysics: The Universe at sub-second timescales, Royal Observatory Edinburgh, Scotland, UK, September 2007.
- Kanbach, G.: Polarisation of the Crab: comparing radio, optical, and hard-X/gamma-ray measurements, colloquium, Physics Department University of Crete, Iraklio, Heraklion, Greece, October 2007.
- Kanbach, G.: Polarized Light: Astrophysical origins, measurements and analysis, colloquium, Seminar, Physics Department University of Crete, Iraklio, Heraklion, Greece, November 2007.
- Kanbach, G.: Practical High-Time-Resolution Astronomy: Concept and Results from the OPTIMA project, colloquium, Seminar at Lund Observatory, Lund, Sweden, April 2007.
- Khrapak, S.A.: Attraction of positively charged particles in highly collisional plasmas, contributed talk, Fourth Capri workshop on dusty plasmas, Capri, Italy, June 2007.
- Khrapak, S.A.: Basics of complex (dusty) plasmas, invited talk, Workshop on complexity in plasma and geospace systems, Geylo, Norway, March 2007.
- Khrapak, S.A.: Critical point in complex plasmas using PK-3 Plus: Estimates based on SIGLO-2D simulations, contributed talk, PK-3 Plus Symposium, Garching, Germany, December 2007.
- Khrapak, S.A.: Critical point studies with PK-4, contributed talk, PK-4 science meeting, Schloß Ringberg, Germany, January 2007.
- Khrapak, S.A.: Distribution of electric potential around a small absorbing body in plasmas: Effect of ion-neutral collisions, contributed talk, Annual Moscow Workshop on the Nonideal Plasma Physics, Moscow, Russia, December 2007.
- Khrapak, S.A.: Interparticle interactions in the context of liquid-vapour critical point in complex plasmas, contributed talk, Topical team meeting on critical point in complex plasmas, Nara, Japan, October 2007.
- Khrapak, S.A.: Ion drag force on an absorbing body in highly collisional plasmas, contributed talk, 2nd International conference on the physics of dusty and burning plasmas, Odessa, Ukraine, August 2007.
- Khrapak, S.A.: Liquid-vapour critical point in complex plasmas under microgravity conditions, contributed talk, Third international symposium on physical sciences in space, Nara, Japan, October 2007.
- Khrapak, S.A.: Liquid-vapour critical point in complex plasmas: Theoretical approach, contributed talk, PK-3 Plus meeting, Garching, Germany, May 2007.
- Khrapak, S.A.: Theoretical approach to the liquid-vapour critical point in complex plasmas, contributed talk, Fourth Capri workshop on dusty plasmas, Capri, Italy, June 2007.
- Klecker, B.: Die Sonne und das Weltraumwetter, public talk, Lange Nacht der Wissenschaft, MPE, Garching, Germany, October 2007.
- Klecker, B.: Die Sonne und das Weltraumwetter, public talk, Space Weather Day - Wetterleuchten im All, IWF/OEAW Graz, Austria, October 2007.
- Klecker, B.: Injection, acceleration and transport signatures in solar energetic particle events, invited talk, SOHO/CELIAS-STEREO/PLASTIC-SEPT Workshop, Kiel, Germany, March 2007.
- Klecker, B.: International Heliophysical Year in Germany: Public Outreach, contributed talk, AGU Joint Assembly, Acapulco, Mexico, May 2007.
- Klecker, B.: Interpretation and modelling of particle spectra, invited talk, Solar Terrestrial Interactions: Instruments and Techniques, 6th COSPAR Capacity Building Workshop, Sinaia, Romania, June 2007.
- Klecker, B.: Ionenladung solarer energetischer Teilchen: ein Schlüssel zur Beschleunigungsregion, contributed talk, MPE Workshop on Solar System Plasmas, Schloß Ringberg, Germany, January 2007.
- Klecker, B.: Ionic charge states of heavy ions associated with interplanetary shocks at 1AU, contributed talk, 30th Intern. Cosmic Ray Conf., Merida, Mexico, July 2007.
- Klecker, B.: Ionic Charge States of Low Energy Ions in Solar Energetic Particle Events: an Overview, invited talk, AGU Fall Meeting, San Francisco, USA, December 2007.
- Klecker, B.: Low-energy ion transport parameters inferred from pickup ions and CIR associated ions, invited talk,

- Workshop on "Transport of Energetic Particles in the Inner Heliosphere", ISSI, Bern, Switzerland, November 2007.
- Klecker, B.: On the variability of suprathermal He⁺: new results from STEREO and SOHO, invited talk, AGU Joint Assembly, Acapulco, Mexico, May 2007.
- Klecker, B.: Pickup Helium in the Inner Heliosphere: an Overview, invited talk, AGU Fall Meeting, San Francisco, USA, December 2007.
- Klecker, B.: Principles of particle spectrometry, invited talk, Solar Terrestrial Interactions: Instruments and Techniques, 6th COSPAR Capacity Building Workshop, Sinaia, Romania, June 2007.
- Klecker, B.: Rapporteur talk on "Sun, Corona and Transient Phenomena in the Heliosphere", invited talk, 30th Intern. Cosmic Ray Conf., Merida, Mexico, July 2007.
- Klecker, B.: Solar – Terrestrische Beziehungen, invited talk, AEF/DPG Tagung, Regensburg, Germany, March 2007.
- Klecker, B.: Solar–terrestrial relations: an overview, invited talk, Solar–terrestrial Interactions: From Microscale to Global Models (STIMM 2), Sinaia, Romania, June 2007.
- Klecker, B.: Weltraumwetter: Sonne - Erde Wechselwirkungen, public talk, FH Rosenheim, Germany, November 2007.
- Knappek, C.A.: Recrystallization of a 2D Plasma Crystal, contributed talk, Science Meeting MPE, Garching, Germany, March 2007.
- Knappek, C.A.: Recrystallization of a 2D Plasma Crystal, contributed talk, PK-3 Plus Meeting, Garching, Germany, May 2007.
- Komossa, S.: Astrophysical Black Holes in the Nearby and Distant Universe - The High Energy View, invited talk, Black Holes VI: Theoretical and Mathematical Aspects, White Point, Nova Scotia, Canada, May 2007.
- Komossa, S.: Astrophysical Supermassive Black Holes, colloquium, Physikalisches Kolloquium, Universität Oldenburg, Germany, October 2007.
- Komossa, S.: Narrow-Line Seyfert 1 Galaxies, invited talk, The nuclear region, host galaxy and environment Active Galaxies, Huatulco, Mexico, April 2007.
- Komossa, S.: Observations of Supermassive Black Holes in Galaxies: Singles and Pairs, colloquium, University of California at Riverside, USA, February 2007.
- Komossa, S.: Radio-Loud Narrow-Line Seyfert 1 Galaxies, contributed talk, MPE Science Meeting, München, Germany, March 2007.
- Komossa, S.: Radio-Loud NLS1 Galaxies, invited talk, Black Holes in Krakow, Poland, May 2007.
- Komossa, S.: The Locus of Low-Mass, Highly Accreting AGN on the M-sigma Plane, contributed talk, Physics of Galactic Nuclei Start-up Workshop, Garching, Germany, December 2007.
- Konopka, U.: New, Flexible Plasma Devices for Complex Plasma Experiments, contributed talk, Liverpool University (Department of Electrical Engineering and Electronics), UK, September 2007.
- Konopka, U.: PlasmaLab: The Future of Complex Plasma Space Experiments on the ISS, invited talk, 8th Workshop on Fine Particle Plasmas, Toki, Japan, Dezember 2007.
- Kretschmer, K.: 26Al spectroscopy and Structure & Kinematics in the inner Galaxy, contributed talk, Five years of INTEGRAL, Chia Laguna (Cagliari), Italy, October 2007.
- Kretschmer, M.: Complex plasmas – A new state of matter, invited talk, 9th International Workshop on the Interrelationship between Plasma Experiments in Laboratory and Space (IPELS2007), Cairns, Australia, August 2007.
- Kretschmer, M.: PK-4 – The next-generation complex plasma experiment on the ISS, contributed talk, Workshop on physics of complex multi-component plasma systems, Sydney, Australia, August 2007.
- Kretschmer, M.: Self-organisation in complex plasmas: Lane formation, contributed talk, PK-3 Plus & PK-4 Science Meeting, Schloß Ringberg, Germany, January 2007.
- Lang, M.: SPI Detection of ⁶⁰Fe Radioactivity from the Galaxy, contributed talk, Five years of INTEGRAL, Chia Laguna (Cagliari), Italy, October 2007.
- Lutz, D.: Akari and Akari Science, invited talk, Science with the Herschel Space Observatory, Les Houches, France, April 2007.
- Lutz, D.: An infrared spectroscopic view of distant infrared galaxies and quasars, contributed talk, From IRAS to Herschel/Planck, London, UK, July 2007.
- Lutz, D.: An IRS view of distant infrared galaxies and quasars, contributed talk, The Origin of Galaxies, Obergurgl, Austria, March 2007.
- Lutz, D.: Science with Herschel-PACS, colloquium, MPIfR Bonn, Germany, February 2007.
- Lutz, D.: Star Formation in High Redshift Submillimeter Galaxies and QSO Hosts, invited talk, Splinter Session 'The Evolution of the Interstellar Medium over Cosmic Time' at AG Tagung 2007, Würzburg, Germany, September 2007.
- Lutz, D.: Star Formation in High Redshift Submillimeter Galaxies and QSO Hosts, contributed talk, Gas Accretion and Star Formation in Galaxies, München, Germany, September 2007.
- Lutz, D.: Studies of galaxy evolution with Herschel, invited talk, Astronomy with the Herschel Space Observatory, Les Houches, Frankreich, April 2007.
- Marghitu, O.: Auroral Electrodynamics on Arc and Oval Scales, contributed talk, Solar-Terrestrial Interactions – from Microscales to Global Models (STIMM 2 Workshop), Sinaia, Romania, June 2007.
- Marghitu, O.: Cluster observations of energy conversion in the plasma sheet, contributed talk, AEF/DPG Tagung, Regensburg, Germany, March 2007.
- Marghitu, O.: Energy conversion features observed by Cluster in the plasma sheet, contributed talk, EGU General Assembly, Vienna, Austria, April 2007.
- Marghitu, O.: Investigation of Energy Conversion and Transfer in the Auroral Magnetosphere by Multi-

- Point Observations, contributed talk, Solar-Terrestrial Interactions – from Microscales to Global Models (STIMM 2), Sinaia, Romania, June 2007.
- Marghitu, O.: Investigation of energy conversion and transfer in the auroral magnetosphere by multi-point observations, contributed talk, CIS/HIA Cluster and Double Star Team Meeting, Berg, Germany, June 2007.
- Marghitu, O.: Load Regions in the Plasma Sheet. Cluster observations versus simulation results, contributed talk, MPE Workshop on Solar System Plasmas, Schloß Ringberg, Germany, January 2007.
- Marghitu, O.: Plasma sheet energy conversion as observed by Cluster, contributed talk, 4th Alfvén Conference, Arcachon, France, September 2007.
- McBreen, S.: A tale of two „dark“ gamma-ray bursts, contributed talk, 070228: The Next Decade of GRB Afterglows, Amsterdam, The Netherlands, March 2007.
- McBreen, S.: Polarisation studies of GRB041219a using the spectrometer INTEGRAL, contributed talk, FIVE YEARS OF INTEGRAL: A Science Workshop in Sardinia, Italy, October 2007.
- McBreen, S.: The temporal properties of gamma-ray bursts, contributed talk, Workshop on SHORT GAMMA-RAY BURSTS: Observations and Physics, Schloß Ringberg, Germany, March 2007.
- Merloni, A.: Cosmological growth of supermassive black holes: constraints on kinetic and radiative feedback, colloquium, DARK Cosmology Center, Copenhagen, Denmark, August 2007.
- Merloni, A.: Black Holes, invited talk, Excellence Cluster Universe Science Week, Munich, Germany, December 2007.
- Merloni, A.: Cosmological growth of supermassive black holes, colloquium, CESR, Toulouse, France, November 2007.
- Merloni, A.: Cosmological growth of supermassive black holes, contributed talk, The prospect for LOFAR surveys, Leiden, The Netherlands, December 2007.
- Merloni, A.: Cosmological growth of supermassive black holes: constraints on kinetic and radiative energy feedback, colloquium, USM, München, Germany, July 2007.
- Merloni, A.: Cosmological growth of supermassive black holes: constraints on kinetic and radiative energy feedback, contributed talk, AGN Splinter meeting at the 80th Annual Scientific Meeting of the Astronomische Gesellschaft, Würzburg, Germany, September 2007.
- Merloni, A.: Kinetic luminosity, jet production efficiency and feedback properties of growing black holes, contributed talk, Obscured AGN, Kloster Seeon, Germany, June 2007.
- Merloni, A.: The physical state of radio-mode, low-luminosity AGN, contributed talk, MPE Workshop „Physics of Galactic Nuclei“, München, Germany, December 2007.
- Mitic, S.D.: Convective dust clouds in a complex plasma, contributed talk, Sydney University, Australia, August 2007.
- Mitic, S.D.: Selfgenerated Waves in Thermophoretic Levitated Dust CLOUD, contributed talk, MPE Science Meeting, Schloß Ringberg, Germany, January 2007.
- Mitic, S.D.: Spectroscopic Measurements in PK3+ influence of particles on plasma parameters, contributed talk, PK3+ Symposium, Garching, Germany, December 2007.
- Monetti, R.: Structure Characterization of uCT Images of Human Trabecular Bone, invited talk, Magnetic Resonance Science Center, UCSF, San Francisco, USA, February 2007.
- Morfill, G.E.: Clusters in dusty plasmas, invited talk, ICPIG Conference, Prague, Czech Republic, July 2007.
- Morfill, G.E.: Complex Plasmas – a new state of matter with unusual properties, invited talk, Deutsche Vakuum Gesellschaft, Greifswald, Germany, August 2007.
- Morfill, G.E.: Complex Plasmas – a new state of matter, invited talk, University Auburn, USA, October 2007.
- Morfill, G.E.: Complex Plasmas – an Overview, invited talk, Colloquium Universität Liverpool, UK, August 2007.
- Morfill, G.E.: Complex Plasmas – New Developments, invited talk, Fourth Capri Workshop on Dusty Plasmas, Capri, Italy, May 2007.
- Morfill, G.E.: Complex Plasmas in Space, invited talk, 3rd Int. Symposium on Physical Sciences in Space, Nara-City, Japan, October 2007.
- Morfill, G.E.: Critical Phenomena and Phase Transitions - First Kinetic Investigations in Space, invited talk, From Quantum to Cosmos 2 - workshop, Bremen, Germany, June 2007.
- Morfill, G.E.: Crystalline and liquid plasmas – new states of matter? invited talk, Alfvén lecture, Stockholm, Schweden, May 2007.
- Morfill, G.E.: Introduction to complex plasmas, invited talk, 1MIME Workshop, Garching, Germany, August 2007.
- Morfill, G.E.: Neutral gas contamination in fusion reactors due to dust impacts, invited talk, 34th EPS Conference on Plasma Physics, Warsaw, Poland, July 2007.
- Morfill, G.E.: The Plasma-Medicine-Project – an Overview, invited talk, Plasmamedizin Workshop, Garching, Germany, November 2007.
- Morfill, G.E.: Von der Astrophysik zur Medizin – der interdisziplinäre Einfluss der Medizin, invited talk, Ringvorlesung TU Berlin, Germany, December 2007.
- Müller, A.: Black Holes, public talk, MPE, Garching, Germany, March 2007.
- Müller, A.: Evolution of Supermassive Black Hole Mass Function, invited talk, Space Telescope Science Institute (STScI), Baltimore, USA, April 2007.
- Müller, A.: Iron K lines in the cosmic X-ray background, contributed talk, 18th International Conference on General Relativity and Gravitation, Sydney, Australia, July 2007.
- Müller, A.: Schwarze Löcher - Schwerkräftfallen des Universums, public talk, Ausbildung Physiker/Astronom, Ricarda-Huch-Schule, Kiel, Germany, June 2007.
- Müller, A.: Schwarze Löcher - Schwerkräftfallen des Universums, public talk, Ausbildung Physiker/Astronom,

- Gymnasium Kronwerk, Rendsburg, Germany, June 2007.
- Müller, A.: Schwarze Löcher - Schwerkräften des Universums, public talk, Ausbildung Physiker/Astronom, Max-Planck-Schule, Kiel, Germany, June 2007.
- Müller, A.: Schwarze Löcher - Schwerkräften des Universums, public talk, Ausbildung Physiker/Astronom, Johann-Heinrich-Voss-Schule, Eutin, Germany, June 2007.
- Müller, T.G.: Kleinkörper im Infrarotweltall, public talk, Michael-Adrian-Observatorium, Sternwarte Trebur, Germany, January 2007.
- Nosenko, V.: Heat transport in a two-dimensional complex (dusty) plasma at melting conditions, contributed talk, 49th Annual Meeting of the APS Division of Plasma Physics, Orlando, USA, November 2007.
- Nosenko, V.: Thermal conductivity measurements in a 2D complex (dusty) plasma, contributed talk, Thermal conductivity measurements in a 2D complex (dusty) plasma, Odessa, Ukraine, August 2007.
- Nosenko, V.: Thermal conductivity measurements in a 2D Yukawa system, contributed talk, APS March Meeting, Denver, USA, March 2007.
- Noyola, E.: Black Holes in Globular Clusters, contributed talk, Gemini Science Meeting, Iguazu, Brazil, June 2007.
- Noyola, E.: Central dynamics of globular clusters: the case for a black hole in Omega Cen, contributed talk, Dynamical Evolution of Dense Stellar Systems, International Astronomical Union Symposium 246, Capri, Italy, September 2007.
- Noyola, E.: Dinamica central de cumulos globulares, colloquium, Instituto de Astronomia, UNAM, Mexico City, Mexico, November 2007.
- Ott, T.: High angular resolution observations of the Galactic Center at the VLT with LGS-AO, contributed talk, Astronomy with Laser Guide Star Adaptive Optics, Schloß Ringberg, Germany, October 2007.
- Ott, T.: The need for a general purpose diffraction limited imager at the VLT, contributed talk, Science with the VLT in the ELT era, Garching, Germany, October 2007.
- Paschmann, G.: Magnetospheric boundaries in spacecraft data, invited talk, Solar Terrestrial Interactions: Instruments and Techniques, 6th COSPAR Capacity Building Workshop, Sinaia, Romania, June 2007.
- Paschmann, G.: Solar Wind Reconnection Events, contributed talk, MPE Workshop on Solar System Plasmas, Schloß Ringberg, Germany, January 2007.
- Paschmann, G.: The Cluster mission to the magnetosphere, invited talk, Solar Terrestrial Interactions: Instruments and Techniques, 6th COSPAR Capacity Building Workshop, Sinaia, Romania, June 2007.
- Pheps, S.: Measuring ω with Pan-STARRS data, contributed talk, Annual Meeting of the Transregio 33 „The dark universe“, Bonn, Germany, October 2007.
- Pheps, S.: Pan-STARRS, contributed talk, Decrypting the Universe Large Surveys for Cosmology, Edinburgh, Scotland, UK, October 2007.
- Pierini, D.: The diversity of red disk-like galaxies at intermediate/high redshifts, invited talk, Tracing Dust in Spiral Galaxies: radiative transfer studies in the dawn of a new generation of observing facilities, Ghent, Belgium, May 2007.
- Pietsch, W.: The X-ray source population of M 31 and M 33, invited talk, X-rays from nearby galaxies, Madrid, Spain, September 2007.
- Pietsch, W.: The X-ray source population of the Andromeda galaxy M 31, invited talk, XMM-Newton: The Next Decade, Madrid, Spain, June 2007.
- Pietsch, W.: X-ray source population studies in nearby galaxies, invited talk, Simbol-X: the hard X-ray universe in focus, Bologna, Italy, May 2007.
- Pitout, F.: Cluster survey of the mid-altitude cusp, contributed talk, Solar-Terrestrial Interactions – from Microscales to Global Models (STIMM 2 Workshop), Sinaia, Romania, June 2007.
- Poglitsch, A.: Far Infrared Detector Development for Herschel/PACS and SOFIA/FIFI LS, invited talk, DPG Frühjahrstagung, Symposium „Terahertz Detectors“, Regensburg, Germany, March 2007.
- Poglitsch, A.: Herschel Photodetector Array Camera & Spectrometer, public talk, Herschel Press Day, Friedrichshafen, Germany, September 2007.
- Poglitsch, A.: Herschel Photodetector Array Camera & Spectrometer, invited talk, Astronomy in the submillimeter and far infrared domains with the Herschel Space Observatory, Les Houches, France, April 2007.
- Poglitsch, A.: PACS Instrument and Guaranteed Time Programmes, invited talk, Herschel Open Time Key Program Workshop, Noordwijk, The Netherlands, February 2007.
- Poglitsch, A.: The Far-Infrared Field-Imaging Line Spectrometer (FIFI LS) for SOFIA, invited talk, Sonderforschungsbereich Kolloquium, Köln, Germany, December 2007.
- Pompl, R.: Effect of low-temperature Plasma on Bacteria observed by repeated AFM-imaging, contributed talk, International Conference on Plasma Medicine (ICPM), Corpus Christi, USA, October 2007.
- Pratt, G.W.: Representative samples of galaxy clusters: recent results and future prospects, contributed talk, XMM-Newton: The Next Decade, Madrid, Spain, June 2007.
- Pratt, G.W.: Representative samples of galaxy clusters: recent results and future prospects, contributed talk, EPIC Consortium Meeting, Leicester, UK, September 2007.
- Pratt, G.W.: Structure and dynamics of galaxy clusters in X-rays, invited talk, Tracing Cosmic Evolution with Clusters of Galaxies: Six Years Later, Sesto Alto Adige, Italy, June 2007.
- Pratt, G.W.: Structure and dynamics of galaxy clusters in X-rays, colloquium, SRON, Utrecht, The Netherlands, December 2007.
- Pratt, G.W.: X-ray structure of the REXCESS clusters, contributed talk, REXCESS Workshop, Frauenwörth, Germany, May 2007.
- Predehl, P.: Das Dunkle Universum, public talk,

- Astronomische Gesellschaft Graubünden, Falera, Switzerland, July 2007.
- Predehl, P.: Das Dunkle Universum, public talk, Lehrerfortbildung, Gars, Germany, July 2007.
- Predehl, P.: Das Dunkle Universum, public talk, Schulvortrag, Kiel, Germany, June 2007.
- Predehl, P.: Das Dunkle Universum, public talk, Schulvortrag, Rendsburg, Germany, June 2007.
- Predehl, P.: eROSITA, contributed talk, XMM-EPIC Consortium Meeting, Leicester, September 2007.
- Predehl, P.: Zeit des Universums, public talk, Citta del Bolzano, Italy, October 2007.
- Räth, C.: A Scaling Index Analysis of the WMAP Three-Year-Data: Signatures of non-Gaussianities and asymmetries in the CMB, colloquium, JPL, Pasadena, USA, February 2007.
- Räth, C.: Analysing μ CT images of bone specimen with Wavelets and Scaling Indices: Which texture measure does better depict the trabecular bone structure?, colloquium, UCSF, San Francisco, USA, February 2007.
- Räth, C.: Analysis methods for quantifying phase transitions in electrorheological plasmas, invited talk, PK 3 plus-Symposium, Garching, Germany, December 2007.
- Räth, C.: Comparing order parameters for quantifying the liquid to string-liquid phase transition in electrorheological plasmas, invited talk, ESA/JAXA-Topical Team Meeting, Nara, Japan, October 2007.
- Räth, C.: Fusion of optical and X-ray images based on landmarks: Material, Methods and First Results, colloquium, UCSF, San Francisco, USA, February 2007.
- Räth, C.: GE and SE Sequences at 1.5 Tesla: Which sequence does better visualize the trabecular structure of the distal radius?, colloquium, UCSF, San Francisco, USA, February 2007.
- Räth, C.: Phase transitions in electrorheological fluids in complex plasmas, invited talk, IGPP/ Universität Freiburg, Germany, April 2007.
- Rubin-Zuzic, M.: Complex Plasmas under Microgravity Conditions - Phase demixing observed on „molecular scale“, contributed talk, Third International Symposium on Physical Sciences in Space (ISPS 2007), Nara, Japan, October 2007.
- Rubin-Zuzic, M.: Complex Plasmas under Microgravity Conditions- Phase demixing observed on “molecular scale” ,contributed talk, PK-3 Plus Symposium, Max-Planck-Institute für extraterrestrische Physik, Garching, Germany, December 2007.
- Rubin-Zuzic, M.: Crystallisation Experiments with Complex Plasmas, contributed talk, Liverpool meeting, Department of Electrical Engineering and Electronics, UK, September 2007.
- Rubin-Zuzic, M.: Fundamental Stability Principles of Matter, contributed talk, MPE Science Meeting, Max-Planck-Institute für extraterrestrische Physik, Garching, Germany, March 2007.
- Rubin-Zuzic, M.: Recrystallisation of a 2D plasma crystal, contributed talk, Topical Team Meeting „Critical Point in complex plasmas“, Nara, Japan, October 2007.
- Scheingraber, H.: Arthur Eddington und die Sonnenfinsternis von 1919, invited talk, Heisse Eisen in der Wissenschaft, IGPP Freiburg, Germany, December 2007.
- Scholer, M.: Instabilities in the Foot Region of Quasi-Perpendicular Shocks: Full Particle Electromagnetic Simulations, contributed talk, AGU Fall Meeting, San Francisco, USA, December 2007.
- Scholer, M.: Turbulence in collisionless shocks, contributed talk, MPE Workshop on Solar System Plasmas, Schloß Ringberg, Germany, January 2007.
- Schwabe, M.: Highly resolved self-excited density waves, contributed talk, 2nd International Conference on dusty plasmas in applications, Odessa, Ukraine, August 2007.
- Schwabe, M.: Self-excited dust density waves, contributed talk, Workshop on physics of complex multi-component plasma systems, Sydney, Australia, August 2007.
- Schwabe, M.: Self-excited Waves and Bubbles, contributed talk, PK-3 Plus and PK-4 Science Meeting, Schloß Ringberg, Germany, January 2007.
- Schwabe, M.: Waves in PK-3 Plus, contributed talk, PK-3 Plus Symposium, MPE Garching, Germany, December 2007.
- Shimizu, T.: Characterization of microwave plasma torch for decontamination, contributed talk, International Conference on Plasma Medicine (ICPM) I, Corpus Christi, USA, October 2007.
- Shimizu, T.: Plasma Medicine, application of plasma for wound sterilization, invited talk, 8th Workshop on Fine Particle Plasmas, Toki, Japan, December 2007.
- Stefanescu, A.: OPTIMA-Burst Observing GRBAfterglows with High Time Resolution, contributed talk, High Time Resolution Astrophysics: The Universe at sub-second timescales, Edinburgh, UK, September 2007.
- Steinle, H.: GBM Response Simulation - Simulation of the Calibration at MPE, invited talk, General Dynamics - Factory of the Future Internal Seminar, Phoenix, USA, May 2007.
- Stiele, H.: A deep XMM-Newton survey of M31, contributed talk, X-Rays from Nearby Galaxies, ESAC, ESA, Madrid, Spain, September 2007.
- Strong, A.W.: Diffuse Galactic Continuum: interstellar and source components, invited talk, Five Years of INTEGRAL, Cagliari, Sardinia, October 2007.
- Strong, A.W.: The Galactic magnetic field: the cosmic ray/ gamma ray/radio connection, invited talk, The Large-Scale Magnetic Field of the Milky Way, Princeton University, USA, May 2007.
- Strong, A.W.: The Galactic magnetic field: the cosmic ray/ gamma ray/radio connection, colloquium, MPIfR Institute Colloquium, MPIfR, Bonn, Germany, June 2007.
- Strüder, L.: High speed, low noise, low power, radiation hard, high Q.E. - home made 2D imaging X-ray detectors, invited talk, Stanford Linear Accelerator, Menlo Park, Ca., USA, February 2007.
- Strüder, L.: Modern Silicon Detectors from the IR to Gamma Rays, invited talk, MPE Science Meeting,

Garching, Germany, March 2007.

Strüder, L.: Modern Silicon Detectors from the IR to Gamma Rays, invited talk, MPE Fachbeirat Meeting, Garching, Germany, May 2007.

Strüder, L.: LSDD – high speed imaging for CFEL and XFEL science, invited talk, Presentation of the LSDD Proposal at the DAC, DESY Hamburg, Germany, May 2007.

Strüder, L.: X-ray detectors for X- and Gamma rays, invited talk, X-and Gamma Ray workshop of CNES, Toulouse, France, May 2007.

Strüder, L.: pnCCDs for FLASH, LCLS and XFEL science, invited talk, DESY-SLAC Workshop, DESY Hamburg, Germany, May 2007.

Strüder, L.: pnCCDs for nano-cluster experiments at X-ray laser facilities, colloquium, Institut für Optik und atomare Physik, TU-Berlin, Germany, June 2007.

Strüder, L.: Position and energy resolving X-ray and electron detectors, contributed talk, Microanalysis and Microscopy, Annual Conference, Ft. Lauderdale, USA, August 2007.

Strüder, L.: Modern Silicon detectors for experiments from X-rays to Gamma rays, invited talk, Gamma-Konzil, Wildbad Kreuth, Germany, October 2007.

Strüder, L.: X-ray imaging detectors for the experiments at FLASH, LCLS, PETRA III and XFEL, contributed Talk, XFEL Workshop, MPI für Kernphysik, Heidelberg, Germany, October 2007.

Strüder, L.: pnCCDs for high speed X-ray imaging at experiments at FLASH, LCLS, PETRA III and XFEL, contributed talk, IEEE Nuclear Science Symposium, Honolulu, USA, November 2007.

Strüder, L.: DEPMOS active pixel sensors for megafame X-ray imaging at FLASH and XFEL, contributed talk, IEEE Nuclear Science Symposium, Honolulu, USA, November 2007.

Strüder, L.: Modern Silicon detectors for experiments from X-rays to Gamma rays, invited talk, Space Science Laboratory, University of Berkeley, California, USA, October 2007.

Strüder, L.: High speed semiconductor detectors for synchrotron experiments at FLASH, LCLS, PETRA III and XFEL, invited talk, Advanced Light Source (ALS) at LBL, Berkeley, California, USA, October 2007.

Strüder, L.: Semiconductor Radiation Detectors – from the Infrared to Gamma rays – in Heaven and on Earth, colloquium, Excellence: Structure and Origin of the Universe, Lectures on instrumentation, TU München, Germany, November 2007.

Strüder, L.: Single Photon Counting in the optical and NIR, colloquium, Excellence: Structure and Origin of the Universe, Lectures on instrumentation, TU München, Germany, November 2007.

Strüder, L.: Far infrared detectors based on Silicon and recent developments in wave front sensors for adaptive optics systems, invited talk, IR group retreat in Kloster Seeon, Germany, December 2007.

Strüder, L.: The pnCCD ocal plane detector concept for

LUSI at LCLS, invited talk, LDAC meeting at SLAC, Menlo Park, USA, December 2007.

Strüder, L.: Status of the pnCCD X-ray imagers for FLASH, colloquium, DESY HASYLab, Hamburg, Germany, December 2007.

Sturm, E.: Extragalactic Science with SOFIA/FIFI LS, colloquium, Sonderforschungsbereich 494, University of Cologne, Germany, December 2007.

Sturm, E.: Line Spectroscopy with Herschel/PACS, invited talk, Herschel Open Time Key Projects Workshop, ESTEC, Noordwijk, The Netherlands, February 2007.

Sturm, E.: The starburst-AGN connection in the infrared light, invited talk, Joint European and National Astronomy Meeting (JENAM-2007), Yerevan, Armenia, August 2007.

Tacconi, L.J.: High Resolution Molecular Spectroscopy of Submillimeter Galaxies, invited talk, Obscured AGN across Cosmic Time, Kloster Seeon, Germany, June 2007.

Tacconi, L.J.: Molecular Line Emission as a Tool for Studying Distant Galaxies, invited talk, FIR Workshop, Bad Honnef, Germany, November 2007.

Tacconi, L.J.: Submillimeter Galaxies at High Resolution, invited talk, The Evolution of the Interstellar Medium Over Cosmic Time, AG Splinter C, Würzburg, Germany, September 2007.

Tacconi, L.J.: Submillimeter Galaxies at High Resolution, invited talk, Gas Accretion in Galaxies, MPA/ESO/MPE/USM Conference, Garching, Germany, September 2007.

Tacconi, L.J.: The Dynamical Evolution of Ultraluminous Galaxies at Low and High Redshift, colloquium, ETH-Zürich, Switzerland, May 2007.

Thoma, M.H.: Critical Point Investigations with PK-4, invited talk, Topical Team Meeting Critical Point in Complex Plasmas, Nara, Japan, October 2007.

Thoma, M.H.: From Garching to Tokyo – Being a Student at E17, invited talk, Festkolloquium anlässlich des 85. Geburtstags von Herrn Prof. Dr. Dr. h.c. Haruhiko Morinaga, TUM, Garching, Germany, October 2007.

Thoma, M.H.: Gibt es Quarksterne?, colloquium, Physikalisches Kolloquium, Universität Giessen, Germany, May 2007.

Thoma, M.H.: PK-4: Complex Plasmas in Space - the next Generation, invited talk, PK-3 Plus Symposium, MPE, Garching, Germany, December 2007.

Thoma, M.H.: PK-4: Complex Plasmas in Space – the next Generation, contributed talk, 3rd International Symposium on Physical Sciences in Space, Nara, Japan, October 2007.

Thoma, M.H.: PK-4: Complex Plasmas in Space – the next Generation, invited talk, PK-3 Plus and PK-4 Science Meeting, Schloß Ringberg, Germany, January 2007.

Thoma, M.H.: Plasmakristallexperimente auf der ISS, invited talk, DLR, Oberpfaffenhofen, Germany, October 2007.

Thoma, M.H.: Scientific experiments and prospects of the complex plasma project PK-4, invited talk, 4th Capri Workshop on Dusty Plasmas, Capri, Italy, May 2007.

- Thoma, M.H.: Strange Quark Matter in Neutron Stars?, colloquium, MPI-Kolloquium, Max-Planck-Institut für Physik, München, Germany, July 2007.
- Thoma, M.H.: Strongly Coupled Plasmas and the Plasma Crystal - Plasma Physics under Microgravity, colloquium, Kolloquium am Institut für Strahlenphysik, Forschungszentrum Rossendorf, Germany, September 2007.
- Thoma, M.H.: Ultrarelativistic Plasmas - Electron-Positron Plasma and Quark-Gluon Plasma, invited talk, LMU, Munich, Germany, November 2007.
- Thoma, M.H.: What can we learn from complex and strongly-coupled plasmas about the quark-gluon plasma?, colloquium, MLL-Kolloquium für Kern- und Teilchenphysik, LMU and TUM, Garching, Germany, May 2007.
- Thoma, M.H.: What can we learn from complex and strongly-coupled plasmas about the quark-gluon plasma?, colloquium, Kolloquium zur Struktur und Dynamik der elementaren Materie, Universität Frankfurt/M., Germany, May 2007.
- Thoma, M.H.: Wissenschaft unter Schwerelosigkeit am Beispiel des Plasmakristalls, public talk, 'Wissenschaft für jedermann', Deutsches Museum, Munich, Germany, January 2007.
- Thoma, M.H.: Wissenschaft unter Schwerelosigkeit am Beispiel des Plasmakristalls, colloquium, Physikalisches Kolloquium, TU Darmstadt, Germany, November 2007.
- Thomas, H.M.: Dusty Plasmas, invited talk, 4th Alfvén Conference, Arcachon, France, September 2007.
- Thomas, H.M.: Initiative for Basic Research in Space, invited talk, DPG-Konferenz, Regensburg, Germany, March 2003.
- Thomas, H.M.: PK-3 Plus - Complex Plasma Research on the International Space Station, contributed talk, Third International Symposium on Physical Sciences in Space, Nara, Japan, October 2007.
- Thomas, H.M.: PK-3 Plus - Plasma crystal and complex plasma research on the International Space Station, invited talk, 34th EPS-Conference on Plasma Physics, Warsaw, Poland, July 2007.
- Thomas, H.M.: PK-3 Plus - Status and Filamentary Mode, contributed talk, Second PK-3 Plus Symposium, Garching, Germany, December 2007.
- Thomas, H.M.: PK-3 Plus, invited talk, Astrolab Mission - Mission Final Review, Noordwijk, The Netherlands, February 2007.
- Thomas, H.M.: PKE-Nefedov - First Natural Science Experiment on the International Space Station, contributed talk, Third International Symposium on Physical Sciences in Space, Nara, Japan, October 2007.
- Thomas, H.M.: Results from PK-3 Plus on the ISS, contributed talk, Dusty Plasma Workshop, Capri, Italy, May 2007.
- Trippe, S.: Sagittarius A* in the near infrared, contributed talk, Nuclear region, host galaxy, and environment of AGN, Huatulco, Mexico, April 2007.
- Trippe, S.: An L-band flare from SgrA* with 20-min substructure, invited talk, Celebrating 15 years of precision astronomy in the Galactic Center - Hot topics and observational challenges, Schloß Ringberg, Germany, June 2007.
- Trippe, S.: Astronomie mit Infrarotlicht, public talk, VDI Public Lecture Series, Munich, Germany, July 2007.
- Trümper, J.: Das Rätsel der Dunklen Materie, public talk, Alfred Krupp Kolleg Greifswald, January 2007.
- Trümper, J.: Röntgenteleskope in der Erdumlaufbahn, public talk, VDI Rosenheim, March 2007.
- Trümper, J.: ROSAT, public talk, Augustinum München, April 2007.
- Trümper, J.: Weiße Zwerge und Schwarze Löcher, public talk, Sternfreunde Nordenham, June 2007.
- Trümper, J.: Thermal Emission from Pulsars and Isolated Neutron Stars, invited talk, Conference on High Energy Astrophysics, 50th Anniversary of the Sputnik, Moscow, Russia, October 2007.
- Trümper, J.: Galactic X-Ray Sources, invited talk, High Energy in Space, Palermo, Italy, October 2007.
- Trümper, J.: Memories of Livio Scarsi, invited talk, High Energy in Space, Palermo, Italy, October 2007.
- Trümper, J.: Röntgenteleskope in der Erdumlaufbahn, public talk, Besuch einer Carl Zeiss Gruppe am MPE, October 2007.
- Trümper, J.: Thermal Emission from Pulsars and Isolated Neutron Stars, colloquium, Physics Department Heraklion, Greece, November 2007.
- Trümper, J.: Galactic X-Ray Astronomy, colloquium, Physics Department Heraklion, Greece, December 2007.
- Ulubay-Siddiki, A.: Kompakt Cismiler Etrafinda Egrilikli Diskler - Warped Disks around Compact Objects, contributed talk, Istanbul Astrophysics Days, Sabanci University, Istanbul, Turkey, January 2007.
- Ulubay-Siddiki, A.: Self-Gravitating Warped Disks around Supermassive Black Holes, invited talk, N-body Dynamics in Near-Keplerian Potentials, Leiden, The Netherlands, June 2007.
- Ulubay-Siddiki, A.: Stable Warped Stellar Disks in the Galactic Center?, contributed talk, Celebrating 15 Years of Precision Astronomy in the Galactic Center - Hot Topics and Observational Challenges, Schloß Ringberg, Germany, June 2007.
- Ulubay-Siddiki, A.: Self-Gravitating Warped Disks around Nuclear Black Holes, contributed talk, Summer School „Active Galactic Nuclei at the Highest Angular Resolution: Theory and Observations“, Torun, Poland, August 2007.
- Ulubay-Siddiki, A.: Constraining the Mass of the Putative IMBH in the Core of GCIRS13E, contributed talk, Summer School „Active Galactic Nuclei at the Highest Angular Resolution: Theory and Observations“, Torun, Poland, September 2007.
- Valiante, E.: A mid-infrared spectroscopic study of sub-mm galaxies: luminous starbursts at high redshift, contributed talk, The Origin of Galaxies - Exploring Galaxy Evolution with the New Generation of Infrared-Millimeter Facilities, Obergurgl, Austria, March 2007.

van Dishoeck, E.: Astrochemistry of dense protostellar environments, invited talk, Astrophysics in the next decade: JWST and concurrent facilities, Tucson, USA, September 2007.

van Dishoeck, E.: Building planets and the ingredients of life between the stars: Grubb Parson prize public lecture, public talk, Durham University, UK, November 2007.

van Dishoeck, E.: SOFIA science opportunities to 2020, invited talk, SOFIA 2020 vision workshop, Pasadena, USA, December 2007.

Volwerk, M.: Fast flows in Themis like configuration: Part 1, contributed talk, Cluster Tail Workshop, Holbury St. Mary's, UK, March 2007.

Volwerk, M.: Europas's interaction with Jupiter's Magnetosphere: The wake region, contributed talk, Europlanet Scientific Congress 2007, Potsdam, Germany, August 2007.

Volwerk, M.: Magnetotail Dipolarizations and Associated Current Systems Observed by Cluster and DoubleStar, contributed talk, STAMMS2, Orleans, France, September 2007.

von Kienlin, A.: INTEGRAL und GLAST - zwei Satellitenmissionen für die Gamma-Astronomie,

invited talk, DLR - Institut für Raumflugbetrieb und Astronautentraining, Oberpfaffenhofen, Germany, October 2007.

Wilman, D.: Galaxies die in Groups: An IRAC Autopsy, contributed talk, The 1st International Subaru Conference: Panaramic Views of Galaxy Formation, Hayama, Japan, December 2007.

Wilman, D.: S0 Formation in Groups: Evidence at Intermediate Redshift, contributed talk, Tracing Cosmic Evolution with Clusters of Galaxies: Six Years Later, Sesto, Italy, June 2007.

Yaroshenko, V.V.: Collective processes in collisional dusty plasmas of planetary rings, contributed talk, 34. EPS Conference on Plasma Physics, Warsaw, Poland, July 2007.

Zhdanov, S.: Circulation and convection in complex plasmas, contributed talk, PK3 Plus Symposium, Garching, Germany, December 2007.

Zhdanov, S.: Circulation dynamo in complex plasmas, contributed talk, Liverpool University Department of Electrical Engineering and Electronics, Liverpool, UK, September 2007.

PhD Theses

Ajello, M.: Swift/BAT studies of AGN the Cosmic X-ray Background. TU München 2007.

Antonova, T.: Interaction of particles with complex electrostatic structures and 3D clusters. LMU München 2007.

Balestra, I.: Chemical abundances in the intracluster medium and in AGN. TU München 2007.

Blagau, A.: Characteristics of Earth's magnetopause from Cluster measurements. LMU München 2007.

Cappelluti, N.: Large scale structures in X-ray surveys. TU München 2007.

De Lorenzi, F.: Made-to-measure dynamical particle models of elliptical galaxies. Astronomisches Institut der Universität Basel and Max-Planck-Institut für extraterrestrische Physik 2007.

Fan, Y.: X-ray analysis of starburst and AGN components. TU München 2007.

Fassbender, R.: Studying Cosmic Evolution with the XMM-Newton Distant Cluster Project - X-ray Luminous Galaxy Clusters at $z > 1$ and their Galaxy Populations. LMU München 2007.

Kompaneets, R.: Complex plasmas: Interaction potentials and non-Hamiltonian dynamics. LMU München 2007.

Mokler, F.F.C.: Die Rolle der Staubkoagulation bei der Planetenentstehung - Coulomb-dipolinduzierte Gelierung im besonderen. LMU München 2007.

Pannella, M.: Morphological evolution of galaxies over the last 8 billion years. LMU München 2007.

Wölfel, S.: Neuartige DEPFET-RNDR-Detektoren im experimentellen Betrieb. Universität Siegen 2007

Diploma Theses

Das, P.: The dynamics and dark matter halo of the elliptical galaxy NGC 5846. LMU München 2007.

Fürmetz, M.: Entwicklung eines Kühlkonzepts für das Röntgenteleskop eROSITA. TU München 2007.

Harayama, Y.: The IMF of the massive star-forming region NGC 3603 from NIR adaptive optics observation. LMU München 2007.

Heidemann, R.: Nichtlineare Wellen in Dreidimensionalen Komplexen Plasmen. TU München 2007.

Schropp, M.: Feasibility test of an interferometric laser guide star. LMU München 2007.

Trepl, L.: Untersuchung der Emissionseigenschaften von rotationsgetriebenen Pulsaren mit den Röntgensatelliten XMM-Newton und ROSAT. LMU München 2007.

PR Work

- Greiner, J., W. Bornemann, C. Clemens, M. Deuter, G. Hasinger, M. Honsberg, H. Huber, S. Huber, M. Krauss, T. Krühler, A. Küpcü Yoldas, H. Mayer-Hasselwander, B. Mican, N. Primak, F. Schrey, I. Steiner, G. Szokoly, C.C. Thöne, A. Yoldas, S. Klose, U. Laux and J. Winkler: GROND commissioned at the 2.2 m telescope. *The Messenger* 130, 12-14 (2007).
- Hasinger, G.: *Das Schicksal des Universums*. C.H. Beck, München, 280 p (2007).
- Lichtenauer, G., A. Feige and A. von Kienlin: Von der Erkundung des Weltraums. In: *Zeitschrift „focus“* (Hrsg. JENOPTIK AG), 2/2007, 18-21 (2007).
- Klecker, B.: Das interplanetare Magnetfeld. *Sterne und Weltraum, Special 1*, 44-45, 2007.
- Klecker, B.: Wie es schnelle Teilchen regnet. *Sterne und Weltraum, Special 1*, 67-69, 2007.
- Poglitsch, A. et al.: PACS - Photodetector Array Camera & Spectrometer für das Herschel Space Observatory, Exhibition „Deutschland - Land der Innovationen“ at the Office of the Chancellor of the Federal Republic of Germany during the open house of the German Federal Government, Berlin, Germany, August 2007.
- Savaglio, S., T. Budavári, K. Glazebrook, D. Le Borgne, E. Le Floch, H.-W. Chen, J. Greiner and A. Küpcü Yoldas: GHostS Gamma-Ray Burst Host Studies. *The Messenger* 128, 47 (2007).
- Schweitzer, M. et al.: FIFI LS - Das „Far-Infrared Field-Imaging Line Spectrometer“ für SOFIA, Exhibition „Deutschland - Land der Innovationen“ at the Office of the Chancellor of the Federal Republic of Germany during the open house of the German Federal Government, Berlin, Germany, August 2007.
- Siebenmorgen, R., A. Smette, H.U. Kaeufl, A. Seifahrt, S. Uttenthaler, A. Bik, M. Casali, S. Hubrig, Y. Jung, F. Kerber, J. Melnick, A. Moorwood, J.-F. Pirard, H. Sana, E. Valenti, L. Tacconi-Garman, M. Hilker, F. Primas, P.J. Amado, A. Carmona, E.F. van Dishoeck, C. Foellmi, M. Goto, R. Gredel, E. Guenther, B. Gustaffson, D. Kurtz, C. Lidman, H. Linz, F. Martins, K. Menten, C. Moutou, P.E. Nissen, D. Nuernberger and A. Reiners: Exploring the near-infrared at high spatial and spectral resolution: first results from CRIRES science verification. *The Messenger* 128, 17-22 (2007).
- Sturm, E. et al.: Infrarotastronomie, Exhibition „Deutschland - Land der Innovationen“ at the Office of the Chancellor of the Federal Republic of Germany during the open house of the German Federal Government, Berlin, Germany, August 2007.
- Tapken, C., I. Appenzeller, A. Gabasch, J. Heidt, U. Hopp, R. Bender, S. Noll, S. Seitz and S. Richling: The puzzle of the Ly α galaxies: new results from the VLT. *The Messenger* 128, 51-55 (2007).
- von Kienlin, A.: GLAST - ein neues Auge für Astrophysiker. *Limburger Sternenpost* 2, 14-17 (2007).
- Zuther, J., S. Fischer, J.-U. Pott, T. Bertram, A. Eckart, C. Straubmeier, C. Iserlohe, W. Voges and G. Hasinger: Dissecting the Nuclear Environment of Mrk 609 with SINFONI the Starburst-AGN Connection. *The Messenger* 128, 44 (2007).

Books

- Aschenbach, B., V. Burwitz, G. Hasinger and B. Leibundgut (Eds.): *Relativistic Astrophysics and Cosmology - Einstein's Legacy*. Springer, Berlin - Heidelberg 2007, 504 p.
- Becker, W. and H.H. Huang: *Neutron Stars and Pulsars: About 40 yrs after the discovery*, Proceedings des 363rd WE-Heraeus Seminar, Bad Honnef, May 2006, MPE-Report 291, 2007, 229 p.
- Böhringer, H., G.W. Pratt, A. Finoguenov and P. Schuecker (Eds.): *Heating versus Cooling in Galaxies and Clusters of Galaxies*. Springer, Berlin 2007, 444 p.
- Tsytovich, V.N., G.E. Morfill, S.V. Vladimirov and H.M. Thomas (Eds.): *Elementary Physics of Complex Plasmas*. Springer, Heidelberg 2007, 370 p.

Collaborations / Transfer of Know-How

Scientific Collaborations by Country

Argentina

Observatorio Astronomico Felix Aguilar (OFA), Universität 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.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

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-Spectrometer SPI.

Europäische Kommission, Joint Research Centre (JRC-IRMM), Geel: Entwicklung von großflächigen Röntgenfiltern für eROSITA.

Brasil

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.

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

Germany

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

Christian-Albrechts-Universität, Kiel: IMPF; komplexe Plasmen; STEREO.

DLR Berlin: SOFIA.

DLR-Köln Porz: Plasmakristall Experiment; Rosetta Lander (ROLAND); PKE-Nefedov.

European Southern Observatory (ESO), Garching: KMOS

Multiobjekt-Spectrograph für VLT; GRAVITY; GROND; PARSEC für die VLT Laser Guide Star Facility; ROSAT (MIDAS); Galaxienentstehung; ASTRO-WISE; Omega-CAM, PRIMA testbed.

Fraunhofer Institut für Festkörpertechnologie, München: XEUS; eROSITA.

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

International University Bremen: Astro-Plasmaphysik, CLUSTER.

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.

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

Max-Planck-Institut für Sonnensystemforschung, Katlenburg-Lindau: Experiment CELIAS auf SOHO; Experiment CIS auf CLUSTER; Rosetta Lander (ROLAND); Millionen Plasmatheorie; MIXS auf BepiColombo.

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

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.

Thüringer Landessternwarte Tautenberg: GROND; Gamma-Ray Bursts.

Technische Universität Braunschweig, Institut für Geophysik und Meteorologie: Hybridcode-Simulationen; Mirror-Moden.

Technische Universität Darmstadt: CAST.

Universität Bochum: Komplexe Plasmen; LUCIFER.

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

Universität der Bundeswehr München: Venus Express.

Universität Erlangen: eROSITA.

Universität Greifswald: Komplexe Plasmen.

Universität Hamburg: eROSITA.

Universität Köln: Galaktisches Zentrum; GRAVITY.

Universitätssternwarte Göttingen: OmegaCAM.

Universität Siegen: Compton Kamera.
Universität Würzburg: ACE, STEREO.

France

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

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 - Aurora-physik; IMPF.

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

IGRP Marseille: Herschel-PACS.

Observatoire de Meudon: ASTRO-WISE.

Observatoire de Paris / LESIA: GRAVITY.

Université d'Orléans CNRS: PKE-Nefedov.

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.

Israel

Ber Sheva University: Astro-Plasmaphysik.

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

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

Italy

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen; XEUS.

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

INAF Trieste: Gamma-Ray Bursts.

INFR Frascati: SIDDHARTA.

Istituto di Fisica Cosmica e Tecnologia, Mailand: INTEGRAL-Spektrometer SPI.

Istituto di Fisica dello Spazio Interplanetario (CNR), Frascati: Herschel-PACS; CLUSTER/CIS; Double Star.

OAA/LENS Firenze: Herschel-PACS.

OAP Padua: Herschel-PACS; OmegaCAM.

Osservatorio Astrofisico di Arcetri, Florenz: Hardpoints für den LBT-Primärspiegel.

Osservatorio di Capodimonte, Napoli: OmegaCAM; ASTRO-WISE.

Osservatorio di Padova: OmegaCAM.

Politecnico di Milano: rauscharme Elektronik; Röntgen-

detektorentwicklung.

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.

Kyushu University: IMPF.

Tohoku University: Komplexe Plasmen; IMPF.

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

Kroatia

Ministry of Science and Technology, Zagreb: CAST.

The Netherlands

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

SRON, Utrecht: COMPTEL; Chandra-LETG.

Sterrewacht Leiden: ASTRO-WISE; OmegaCAM.

TU Delft: Reflexions Messungen an schwarzen Farben.

University Eindhoven: Komplexe Plasmen; IMPF.

University of Groningen, Kapteyn Institute: Rekonstruktion der Dichteverteilung im Universum; OmegaCAM; ASTRO-WISE.

Norway

Universität Trømsø: Komplexe Plasmen; IMPF.

Portugal

Universität Lissabon: Komplexe Plasmen.

Romania

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

Russia

Institute for High Energy Densities (IHED) of the Russian Academy of Science, Moscow: Plasmakristall Experiment (PKE); PKE-Nefedov; PK-3 Plus; PK-4; IMPF.

Institute Physics of Earth, Moscow: Plasmaphysik; Astro-Plasmaphysik.

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

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

Switzerland

CERN, Geneva: CAST.

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

Observatoire de Genève Sauverny, Geneva: ISDC.

Universität Bern: SOHO/CELIAS; STEREO/PLASTIC.

Spain

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

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

Universidad de Zaragoza: CAST.

Taiwan

National Central University, Chungli: IMPF.

Turkey

Bogazici University, Istanbul: IMPF; CAST.

UK

BRUNEL University: XEUS.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

Rutherford Appleton Laboratory, Council for the Central Laboratory of the Research Councils: SIS-Junctions; Komplexe Plasmen; Rosetta Lander (ROLAND); JSOC für CLUSTER.

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

University of Bristol: KMOS.

University of Durham: KMOS, PanSTARRS.

University of Edinburgh: KMOS, PanSTARRS.

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

University of Liverpool: Komplexe Plasmen.

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

University Oxford: Komplexe Plasmen; IMPF, KMOS.

University of Sheffield: Astro-Plasmaphysik.

USA

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

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

Clemson University: Gamma-Ray Bursts; Nukleare Astrophysik.

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

Harvard University: PanSTARRS.

Institute for Astronomy, Hawaii, Honolulu: Galaxienentstehung, PanSTARRS.

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: GLAST Gamma-Ray Burst Monitor; XMM-Newton und Chandra Beobachtungen von Neutronensternen, Pulsaren und Supernova-überresten.

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

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

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

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

Space Telescope Science Institute, Baltimore: Galaxienentstehung.

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

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

University of California, San Diego: CLUSTER/EDI; INTEGRAL-Spektrometer SPI; IMPF.

University of Colorado, Boulder: SAMPEX.

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

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

University of Toledo: Galaxienentstehung.

University of Washington, Seattle: CLUSTER/CIS.

University Space Research Association, Moffett Field: SOFIA.

Multinational Collaborations - Projects

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

CAST: 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 Moskow, 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, Pittsburg, 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.

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

FAST: SSL-UCB Berkeley, USA; CETP St.Maur, France.

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

GLAST – 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.

GRAVITY – Instrument for VLT Interferometry: MPIA Heidelberg, Germany; Observatoire de Paris / LESIA, France; Universität zu Köln, Germany; European Southern Observatory, Garching, Germany.

GROND - Gamma-Ray Burst Optical Near-IR Detector: Landessternwarte Tautenburg, Germany; ESO Garching, Germany.

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.

IMPF – International Microgravity Plasma Facility / IMPACT – International Microgravity Plasma, Aerosol and Cosmic Dust Twin Laboratory: Oxford University, UK; Université d'Orléans CNRS, France; Institute for High Energy Densities Moscow, Russia; University of Iowa, USA; University of Tromsø, Norway; National Central University Chungli, Taiwan; Eindhoven University of Technology, The Netherlands; University of California, San Diego, USA; Tohoku University, Kyushu University, Japan; Christian-Albrechts-Universität Kiel, Germany.

INTAS – Cooperation of Western and Eastern European Scientist: 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 die Astrofisica Spatiale Frascati, Italy; N. Copernikus 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, University of California, San Diego, USA.

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

LBT, Large Binocular Telescope Project: MPIA Heidelberg, MPIfR Bonn, Landessternwarte Heidelberg Königstuhl, Astrophysikalisches Institut Potsdam, Germany; University of Arizona Tucson, 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.

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

PanSTARRS: MPIA Heidelberg, Germany, University of Hawaii, Harvard University, USA, Johns Hopkins Univ. Baltimore, MD, USA, Universities of Durham, Edinburgh, Belfast, UK.

Plasma-crystal experiment PKE-Nefedov: IHED Moscow, Russia; University of Iowa City, USA; DLR-Köln, Germany; Université d'Orléans CNRS, France.

PK-3 Plus (Plasma-crystal experiment): IHED Moscow, Russia.

PK-4 (Plasma-crystal experiment): IHED Moscow, Russia.

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

PLASTIC experiment for STEREO: University of New Hampshire Durham, NASA/GSFC Greenbelt, USA; Universität Bern, Switzerland; Universität Kiel, Germany.

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

SIMBOL-X: Osservatorio Astronomico di Brera, Italy; CEA Saclay, France.

Swift: 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; IHED, Moscow, Russia.

XEUS: 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), Japan.

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

XMM-Newton/TS: ESTEC Noordwijk, The Netherlands.

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

Industrial Collaborations

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.

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

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

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, Jena: eROSITA mirror and mandrels.

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

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.

Freyer GmbH, Tuningen: Production of structural parts for LUCIFER; PANTER.

GEWO, Wörth/Hörlkofen: Structural parts for FIFI-LS.

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

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

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

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

Ingenieurbüro Dohnalek, München: Design FIFI-LS and support on the design of pressed Ge:Ga-arrays.

Ingenieurbüro pfma, Haar-Salmdorf: Design and manufacturing of GROND components.

Ingenieurbüro Steinbach, Jena: Design and manufacturing of the GROND-M3 flip-mirror unit.

Ingenieurbüro Weisz, München: Design and mechanical engineering for LUCIFER; PACS test optics; XEUS mirror technology.

Kayser-Threde GmbH, München: Main contractor for Herschel-PACS; plasma-crystal experiments on the ISS; PKE; PK-3 Plus, PK-4, eROSITA-Spiegelsystem.

Kugler GmbH, Salem: Mirrors for OPTIMA, FIFI-LS.

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

PNSensor, München: Development and Manufacturing of semiconductor detectors.

Pribil D., Unterhaching: Manufacturing of structural parts for LUCIFER.

Sagem, Paris: Manufacturing of filters for OmegaCAM.

SCHOTT GLAS, Mainz: Investigations on the manufacturing of mirrors; XEUS.

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

Tafelmaier Dünnschichttechnik, Rosenheim: Coating of optical components for GROND.

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

Thomas Markl GmbH, Deisenhofen: Manufacturing of structural parts for PACS and FIFI-LS.

Zeiss, Oberkochen: Polishing of the SPIFFI mirrors.

Activities in Transfer of Know-How

The many 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: Technology development in the field of X-ray optics and spectroscopy; absolute calibration of X-ray CCD systems.

OHB-System GmbH, Bremen: Pre-investigations for a flexible S/W simulator for small satellites.

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

B) Licences

Ganimed AG, Freiburg: EKG-Analysen.

Knoll AG, Ludwigshafen: Pharmakologie.

ADTEC, Japan, Plasma Torch.

Biocam, GmbH, Regensburg: Melanomerkennung.

Baader Planetarium GmbH, Mammendorf:

Reflexionsgitter Spectrograph für Lehrzwecke.

C) Cooperations with Universities (by contract)

Anaesthesiology:

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

Scanning Probe Microscopy:

Institut für Kristallographie und Angewandte Mineralogie,

Ludwig-Maximilians-Universität, München.

Radiology:

Institut für Röntgendiagnostik, TU München.

Pattern recognition:

Bayerisches Landeskriminalamt, StZ, München.

Plasmamedicine:

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

Klinik und Poliklinik für Dermatologie, Universität Regensburg.

Russian Academy of Sciences, RAS, Moscow (Russia).

Russian Academy of Medical Sciences, RAMS, Moscow (Russia).

D) Patents - Activities in 2007

„Ventu-Plaster“ (Plasmamedizin zur Sterilisation) - Patent 07009716.7 (EU)

DEPFET Auslesestruktur mit hohem dynamischen Bereich - Patent 10 2007 048 890.6 (D)

Method for producing particles with diamond structure - EP 1456436 B1

Method and Device for Operating a Plasma Device - EP 1825493 A0

Plasma Source - EP 1765044 A1

Halbleiterdetektor und zugehöriges Betriebsverfahren - Patent 10 2007 029 898.8 - 33 (D)