

Garching

Max-Planck-Institut für extraterrestrische Physik

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0 Allgemeines

Das Max-Planck-Institut für extraterrestrische Physik (MPE) befaßt sich mit Themen der Astrophysik und Plasmaphysik, die sich fünf großen Bereichen zuordnen lassen: (i) *Galaxienentwicklung, Großräumige Strukturen und Kosmologie*, (ii) *Galaxien, Galaxienkerne und massive Schwarze Löcher*, (iii) *Sternentwicklung und Interstellares Medium*, (iv) *Physik des Sonnensystems* und (v) *Komplexe Plasmen*. Dabei werden überwiegend experimentelle Methoden angewandt, aber auch theoretische Untersuchungen durchgeführt. Der Name des Instituts bezieht sich einerseits auf den Gegenstand der Forschung: die Physik des Weltraums, andererseits auf die Forschungsmethoden: viele unserer Experimente werden notwendigerweise oberhalb der dichten, absorbierenden Erdatmosphäre mit Flugzeugen, Raketen, Satelliten und Raumsonden durchgeführt. In zunehmendem Maße setzen wir aber, vor allem im optischen und Infrarotbereich, auch Instrumente an erdgebundenen Teleskopen ein. Ergänzt werden unsere Untersuchungen durch Experimente im Labor.

Methodisch lassen sich die Forschungsaktivitäten des MPE in mehrere Bereiche einteilen. In den astrophysikalischen Forschungsbereichen wird die Strahlung entfernter Objekte mit Teleskopen in den Millimeter/Sub-millimeter-, Infrarot-, Optischen-, Röntgen- und Gammastrahlungsbereichen gemessen. Der hierbei überdeckte Teil des elektromagnetischen Spektrums umfasst mehr als zwölf Dekaden. Die untersuchten Objekte reichen von Kometen bis zu den fernsten Quasaren, von den winzigen Neutronensternen bis zu Galaxienhaufen, den größten bekannten Formationen im Kosmos. Ein weiterer Bereich beschäftigt sich mit Teilchen und elektromagnetischen Feldern, sowie ihren Wechselwirkungen im Sonnensystem, d.h. in der Ionosphäre und Magnetosphäre der Erde und im Sonnenwind. Dabei werden diagnostische "in-situ"-Messungen durchgeführt. Seit der Entdeckung eines neuen Plasmazustandes ("Plasmakristall") hat sich noch das junge Forschungsfeld "Komplexe Plasmen" aufgetan, das hauptsächlich in Laborexperimenten betrieben wird. Um die Gravitation "auszuschalten" werden inzwischen auch Experimente auf Parabelflügen und auf der Internationalen Raumstation durchgeführt. Die Theoriegruppe des Instituts beteiligt sich Gruppen-übergreifend an der Interpretation der Beobachtungen und Messungen. Die direkte Wechselwirkung von Beobachtern, Experimentatoren und Theoretikern im Hause ist ein Markenzeichen unseres Arbeitsstils und führt oft im direkten Wechselspiel von Hypothesen und neuen Beobachtungen zu einer frühen Erkennung vielversprechender neuer Forschungsrichtungen.

Zwei technologische Einrichtungen des MPE sind von besonderer Bedeutung: Die 130 m lange Vakuumanlage *Panther* zum Test von Röntgenteleskopen in Neuried bei München

und das zusammen mit dem Max-Planck-Institut für Physik betriebene Halbleiterlabor in München-Neuperlach, in dem Strahlungsdetektoren für unsere Raumfahrtexperimente entwickelt werden. Auch durch diese Einrichtungen gewinnt der Transfer von neuen Verfahren und Methoden in die industrielle Anwendung immer mehr an Bedeutung. Besonders hervorzuheben sind dabei ein weiter Bereich von Anwendungen für die von uns entwickelten Strahlungsdetektoren, die erfolgreiche Verwendung mathematischer Methoden der nichtlinearen Dynamik in der Medizin, sowie die Anwendungen der Plasmaphysik auf die Medizin.

Neben der Forschung nimmt unser Institut auch universitäre Ausbildungsaufgaben wahr. MPE-Wissenschaftler sind als Hochschullehrer an mehreren Universitäten tätig und betreuen studentische Forschungsprojekte (Diplom- und Doktorarbeiten). Die Mehrzahl davon an den beiden Münchner Universitäten, aber auch an anderen deutschen Hochschulen und sogar im Ausland. Darüber hinaus veranstalten wir spezielle Seminare und Symposien zu unseren und angrenzenden Forschungsgebieten, häufig in Zusammenarbeit mit Universitätsinstituten. Unsere sehr erfolgreiche "International Max-Planck Research School on Astrophysics" an der Ludwig-Maximilians-Universität (LMU) München brachte eine wesentliche Intensivierung der Doktorandenausbildung im Raum Garching/München. An dieser im Jahre 2000 gegründeten Graduate School sind neben unserem Institut und dem Max-Planck-Institut für Astrophysik (MPA) noch das Institut für Astronomie und Astrophysik der LMU, die Europäische Südsternwarte, sowie Forschergruppen aus der TU München beteiligt.

1 Personal und Ausstattung

1.1 Personalstand

Direktoren und Professoren:

Prof. Dr. G. Hasinger (Geschäftsführung), Hochenergieastrophysik; Prof. Dr. R. Bender, Optische und Interpretative Astronomie; Prof. Dr. R. Genzel, Infrarot- und Submillimeter-Astronomie; Prof. Dr. G. Morfill, Theorie, komplexe Plasmen; Prof. Dr. G. Haerendel (emeritiert); Prof. Dr. R. Lüst (emeritiert); Prof. Dr. J. Trümper (emeritiert).

Auswärtige wissenschaftliche Mitglieder:

Prof. Dr. E. van Dishoeck (Universität Leiden, Niederlande); Prof. Dr. V. Fortov (IHED, Moskau, Russland); Prof. Dr. R. Z. Sagdeev (University of Maryland, College Park, USA); Prof. Dr. M. Schmidt (CALTECH, Pasadena, USA); Prof. Dr. Y. Tanaka (JSPS, Bonn; MPE, Deutschland); Prof. Dr. C. H. Townes (UC, Berkeley, USA).

Kuratorium:

I. Aigner, Mitglied des Bundestages; Dr. L. Baumgarten, Vorstandsmitglied DLR; Prof. Dr. A. Bode, TU München; J. Breitkopf, Kayser-Threde GmbH; D. Dauke, Bundesministerium für Wirtschaft und Technologie; H.-J. Dürrmeier, Süddeutscher Verlag; Prof. Dr. W. Glatthaar, DG Bank (Vorsitzender des Kuratoriums); Dr. G. Gruppe, Bayerisches Staatsministerium für Wirtschaft, Verkehr und Technologie; Prof. Dr. B. Huber, Rektor der LMU München; Dr. M. Mayer, ehem. Mitglied des Bundestages; Prof. Dr. E. Rohkamm, Thyssen Krupp AG.

Fachbeirat:

Prof. Dr. R. Davies, Oxford University (UK); Prof. Dr. A. Ellis, CALTECH (USA); Dr. N. Gehrels, NASA GSFC (USA); Prof. Dr. R. Harrison, CALTECH (USA); Prof. Dr. O. Havnes, Trømsø University (Norwegen); Prof. Dr. P. Léna, Université Paris VII (Frankreich); Prof. Dr. R. McCray, University of Colorado (USA); Prof. Dr. M. Salvati, Osservatorio Astrofisico di Arcetri (Italien).

Sonderfachbeirat (CIPS):

Prof. Dr. H. Gleiter, Forschungszentrum Karlsruhe (Deutschland); Prof. Dr. R. Sauerbrey, Forschungszentrum Rossendorf, Dresden (Deutschland).

*Wissenschaftliche Mitarbeiter und Angestellte**A. Infrarot-und Sub-mm-Astronomie*

Dr. N. Ageorges A. Agudo Berbel, Dr. H. Bartko, Dipl.-Phys. O. Bauer, Dr. S. Berta, Dr. N. Bouché, Dr. J. Brown, Dr. A. Contursi, Dr. D. Cesarky, Dr. G. Cresci, Dr. R. Davies, Dr. V. Doublier Pritchard, Dr. F. Eisenhauer, Dipl.-Phys. H. Feuchtgruber, Dr. N. Förster Schreiber, A. Friedl, Dr. N. Geis, H. Gemperlein, Dr. S. Gillessen, Dr. J. Gracia Carpio, A. Gräter, A. Gueguen, Dr. C. Hartinger, Dr. G. Herczeg, S. Harai-Ströbl, Dr. C. Hartinger, Dr. E. Hicks, Dr. R. Hofmann, Dr. R. Katterloher, A. Kleiser, Dr. M. Kornberg, H. Krombach, Dr. D. Lutz, Dr. T. Müller, Dr. R. Nordon S. Osterhage, Dr. A. Poglitsch, DR. P. Popesso, Dr. W. Raab, Dr. S. Rabien, Dr. M. Schweitzer, Dr. E. Sturm, Dr. L. Tacconi, Dr. S. Trippe, Dr. M. Wetzstein.

Doktoranden/Diplomanden:

Dipl.-Phys. P. Buschkamp, K. Dodds-Eden, Dipl.-Phys. H. Engel, S. Genel, G. Hölzl, J. Kolmeder, L. Mascetti, P. Mayer, Dipl.-Phys. F. Müller-Sanchez, O. Pfuhl, L. Shao, E. Valiante.

B. Hochenergieastrophysik

Dr. M. Ajello, Dr. R. Andritschke, Dr. B. Aschenbach, Dr. I. Balestra, Prof. Dr. W. Becker, B. Boller, Prof. Dr. T. Boller, Dr. A. Bongiorno, Dr. H. Bräuninger, Dr. U.G. Briel, Dr. H. Brunner, Dr. M. Brusa, Dr. W. Burkert, Dr. V. Burwitz, Dr. N. Cappelluti, Dr. A. Carlson, Dr. W. Collmar, Dr. K. Dennerl, Dr. R. Diehl, Dr. J. Elbs, Dipl.-Ing. J. Eder, Dr. A. Finoguenov, W. Frankenhuisen, Dr. M. Freyberg, Dr. P. Friedrich, Dr. J. Greiner, Dr. F. Haberl, Dipl.-Math. G. Hartner, M. Hirschinger, Dr. K. Iwasawa, Dr. G. Kanbach, Dr. A. von Kienlin, Dr. N. Kimmel, Dr. S. Komossa, Dr. A. Küpcü Yoldas, Dr. G. Lemson, Dr. S. McBreen, Dr. N. Meidinger, DR. K. Misaki, Dr. F. Mokler, Dr. D. Petry, Dipl.-Phys. E. Pfeffermann, Dr. W. Pietsch, Dr. M. Porro, Dr. P. Predehl, Dr. J.M. Ramirez, D. Rehm, Dr. M. Rovilos, Dr. G. Sala, Dr. S. Savaglio, G. Schaller, Dr. F. Schopper, Dr. I. Strateva, Dr. A. Strong, Prof. Dr. L. Strüder, Prof. Y. Tanaka, Dr. J. Treis, Dr. W. Voges, M. Vongehr, Dr. R. Voss, A. Yoldas, Dr. X.-L. Zhang.

Doktoranden/Diplomanden:

P. Afonso, A. Bähr, Dipl.-Phys. M. Bauer, E. Bissaldi, E. Bottacini, Dipl.-Phys. D. Bur-lon, Dipl.-Phys. P. Chaudhary, Dipl.-Phys. C. Clemens, P. Eger, Dipl.-Phys. S. Eber-mayer, Dipl.-Phys. P. Esquei, V. Fedl, Dipl.-Phys. R. Filgas, Dipl.-Phys. M. Fürmetz, B. Grünecker, Dipl.-Phys. M. Henze, Dipl.-Phys. B. Huber, Dipl.-Phys. H.-H. Huang, E. Hyde, C. Jocham, N. Kimmel, Dipl.-Phys. K. Kretschmer, Dipl.-Phys. T. Kruehler, Dipl.-Phys. M. Lang, T. Lauf, D.T. Le, S. Löw, Dipl.-Phys. P. Mendes, A. Mikova, Dipl.-Phys. M. Mühlegger, H. Ohlendorf, F. Olivares, Dipl.-Phys. E. Orlando, N. Prymak, J. Rabe, C. Städtler, Dipl.-Phys. G. Schächner, Dipl.-Phys. A. Stefanescu, Dipl.-Phys. H. Stiehle, R. Sturm, Dipl.-Phys. S. Wölfel.

C. Theorie

Dr. T. Aschenbrenner, Dr. P. Badyopadhyay, Dr. H. Böhringer, Dr. W. Bunk, Dr. M. Chaudhuri, Dr. L. Couedel, Dr. R. Fassbender, Dipl.-Phys. H. Höfner, Dr. A. Ivlev, Dr. S. Khripak, Dr. B. Klumov, Dr. R. Kompaneets, Dr. U. Konopka, Dr. M. Kretschmer, Dr. Y. Li, Dr. R. Monetti, Dr. V. Nosenko, Dr. N. Ota, Dr. D. Pierini, Dr. R. Pompl, Dr. G. Pratt, Dr. M. Pustyl'nik, Dr. Ch. Räh, Dr. M. Rubin-Zuzic, Dr. H. Scheingraber, Dr. S. Shimizu, Dr. T. Shimizu, Dr. I. Sidorenko, Dr. M. Thoma, Dr. H. Thomas, Dr. V. Yaroschenko, Dr. S. Zhdanov.

Doktoranden/Diplomanden:

Dipl.-Phys. T. Antonova, Dipl.-Phys. F. Braglia, Dipl.-Phys. P. Brandt, C. Du, Dipl.-Phys. M. Fink, Dipl.-Phys. S. Giodini, R. Heidemann, Dipl.-Phys. P. Huber, K. Jiang, Dipl.-Phys. C. Knappek, Dipl.-Phys. S. Mitic, Dipl.-Phys. S. Mihatsch, A. Mois, Dipl.-Phys. G. Rossmannith, J. Santos, Dipl.-Phys. M. Schwabe, A. Simionesco, R. Suhada, Dipl.-Phys. R. Sütterlin, Y-Y. Zhang.

D. Optische und Interpretative Astronomie

Prof. Dr. A. Burkert, Dr. L. Coccato, Dr. F. De Lorenzi, Dr. N. Drory, Prof. Dr. O. Gerhard, Dr. F. Grupp, Dr. U. Hopp, Dr. S. Khochfar, Dr. M. Krause, Dr. M. Montalto, Dr. B. Muschielok, Dr. E. Noyola y Loya, Dr. S. Phleps, Dr. H. Relke, M. Rieperding, Dr. R. Saglia, Dr. A. Sanchez, Dr. M. Schartmann, Dr. R. Senger, Dr. D. Wilman.

Doktoranden/Diplomanden:

A. Balaguera Antolinez, J. Connelly, P. Das, Dipl.-Phys. M. Hirschmann, Dipl.-Phys. R. Koehler, H. Kotarba, E. McNeil, F. Montasano, L. Morganti, S. Prianto Rusli, Dipl.-Phys. H. Schlagenhauer, R. Schoenrich, Dipl.-Phys. A. Ulubay Siddiki.

E. Physik des Erdnahen Weltraums

Dipl. Phys. E. Georgescu, Dr. B. Klecker, J. Zanker-Smith.

F. Ingenieurbereiche und Werkstätten

a) Elektrotechnik

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

b) Mechanik

S. Arzt, R. Bayer, J. Blasi, J. Brandstetter, A. Brara, B. Budau, S. Czempel, C. Deyssenroth, M. Deysenroth, G. Dietrich, Dipl.-Ing. (FH) K. Dittrich, J. Eibl, P. Feldmeier, J. Gahl, A. Goldbrunner, Dipl.-Ing. (FH) M. Haug, M. Honsberg, F.-X. Huber, Dipl.-Ing. H. Huber, S. Huber, H.J. Kestler, J. Liebhardt, R. Mayr, R. Mayr-Ihbe, Dipl.-Ing. (FH) B. Mican, M. Plangger, Dipl.-Ing. (FH) D. Pietschner, C. Rohe, R. Sandmair, P. Schnell, W. Schunn, F. Soller, P. Straube, Dipl.-Ing. M. Thiel, Dipl.-Ing. L. Tiedemann.

c) Auszubildende

M. Bibracher, D. Cziasto, J. Hartwig, S. Hasinger, D. Huber, F. Mihé, E. Niemetz, M. Schindelmeier, A. Schneider, S. Senfleben, T. Urban.

G. Zentrale DV-Gruppe

Dipl.-Phys. O.H. Bauer, H. Baumgartner, Dipl.-Phys. A. Bohnet, B. Bribian-Sanchez, A. Kleiser, L. Klose, C. Kollmer, A. Oberauer, Dr. T. Ott, J. Paul, Dipl.-Ing. (FH) R. Sigl, Dr. J. Snigula, Dr. H. Steinle, Dipl.-Ing. E. Wieprecht, Dipl.-Ing. E. Wiezorrek.

H. Öffentlichkeitsarbeit

Dr. M. Clerico.

I. Publikationsunterstützung

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

J. Bibliothek

E. Chmielewski, E. Blank, C. Hardt.

K. Verwaltung und Allgemeine Dienste

G. Apold, A. Arturo, M. Bauernfeind, U. Bitzer, M. Blaschek, U. Cziasto, E. Doll, C. Eicher, M. Ertl, S. Goldbrunner, M. Grasmann, H.-P. Gschnell, R. Hübner, M. Ihle, I. Inhofer, T. Jäkel, J. Jirsch, W. Karing, M. Keil, L. Kestler, V. Kliem, T. Kürzinger, C. Lochner, A. Nagy, A. Neun, M. Peischl, C. Preisler, A. Reither, R. Rochner, E. Rossa, P. Sandtner, E. Sarsilmaz, B. Scheiner, Dipl.-Ökonom G. Seeger, R. Steinle, R. Strecker, L. Thiess, P. Troll, J. Vogt.

Preise

Reinhard Genzel erhielt den Shaw-Preis für Astronomie 2008 von der Shaw Prize Foundation in Hong Kong, China.

Reinhard Genzel hielt die Bishop Lecture 2008 der Columbia Universität, New York, USA.

Reinhard Genzel hielt die Sackler Lecture 2008 der University of Cambridge, Cambridge, UK.

Ortwin Gerhard ist Präsident der IAU Division VII (Galactic Structure) und der IAU Kommission 33 (Structure and Dynamics of the Galactic System).

Günther Hasinger ist Präsident der IAU Division XI / Commission 44 (Space and High Energy Astrophysics).

Felicitas Mokler erhielt den Klaus-Tschira-Preis "KlarText" für verständliche Wissenschaft im Fach Physik.

Sandra Savaglio erhielt den Pythagoras-Preis 2008 der Universität von Kalabrien (Italien).

Maarten Schmidt erhielt den Kavli-Preis für Astrophysik 2008.

2 Lehrtätigkeiten

Becker, W.: Weiße Zwerge, Neutronensterne und Schwarze Löcher, LMU München WS 07/08 und 08/09; Astrophysikalisches Doktorandenseminar mit den Studenten der *International Max-Planck Research School on Astrophysics*, LMU München WS 07/08, SS 08 und WS 08/09; Gravitationswellen und ihr Nachweis, LMU München SS 08

Bender, R.: Astronomisches Hauptseminar zur Astrophysik, LMU München SS 08 und WS 08/09; Astrophysikalisches Praktikum "A" und Übungen, LMU München WS 07/08, SS 08 und WS 08/09; Astrophysikalisches Praktikum "B" und Übungen, LMU München SS 08 und WS 08/09; Astronomisches Kolloquium, LMU München SS 08 und WS 08/09; Extragalactic Journal Club, LMU München SS 08 und WS 08/09; Extragalactic Group Seminar, LMU München SS 08 und WS 08/09; Introduction into Astronomy and Astrophysics and Exercises, LMU München WS 08/09; IMPRS introductory course, IMPRS Garching SS 08

Böhringer, H.: Cosmology, Large-Scale Structure and Galaxy Clusters, IMPRS Garching WS 07/08

Boller, Th.: AGN Physics and AGN distribution functions, University of Padova SS 08; Einführung in die Astronomie I, J.-W. von Goethe Univ. Frankfurt WS 07/08 und WS 08/09; Einführung in die Astronomie II, J.-W. von Goethe Univ. Frankfurt SS 08; Astrophysikalisches Praktikum, J.-W. von Goethe Univ. Frankfurt SS 08; Astrophysik III, Master Course, J.-W. von Goethe Univ. Frankfurt WS 07/08 und WS 08/09;

Davies, R: Adaptive Optics: Principles and Practice in Astronomy, ETH Zürich WS 08

Diehl, R.: Seminar on "Nuclei in the Cosmos", TU München WS 07/08, SS 08 und WS 08/09; Observational High-Energy Astrophysics, TU München SS 08; Abundance Cons-

straints on Nuclei in the Cosmos, Argonne National Laboratory SS 08

Eisenhauer, F.: High Angular Resolution Astronomy: Telescopes, Adaptive Optics, Interferometry, and more, TU München SS 08; Einführung in die Astrophysik, TU München WS 07/08 und WS 08/09

Fassbender, R.: Aktuelle Kosmologische Forschung mit großen Himmelsdurchmusterungen, LMU München SS 08

Genzel, R.: IMPRS Advanced Course I, IMPRS Garching WS 07/08; Black Holes in Astrophysics, University of California, Berkeley 2008

Gillessen, S.: Seminar “Tools in Modern Astrophysics“, LMU München WS 07/08, SS 08 und WS 08/09

Haerendel, G.: Space Physics III: Solar Physics, Jacobs University Bremen WS 08/09

Hasinger, G.: Einführung in die Astrophysik, TU München WS 07/08 und WS 08/09

Phleps, S.: Aktuelle Kosmologische Forschung mit großen Himmelsdurchmusterungen, LMU München SS 08

Poglitich, A.: 3rd Heidelberg Astronomy Summer School “The Art & Craft of Astronomical Instrumentation“, Heidelberg SS 08

Saglia, R.: IMPRS introductory course, IMPRS Garching SS 08; Summer School “Black Holes and Galaxy Evolution“, Bad Honnef SS 08

Sturm, E.: Lehrveranstaltung: Das Weltraumobservatorium Herschel - Astronomie ganz nah, Lehrerfortbildung ESOC Darmstadt WS 08/09

Thoma, M.: Komplexe Plasmen, Univ. Gießen SS 08; Einführung in die Eichtheorie, Univ. Gießen WS 08/09

Thoma, M. (mit Kretschmer, M. und Schwabe, M.): Fortgeschrittenenpraktikum III und IV - Versuch 03: Plasmakristall, TU München WS 07/08, SS 08, WS 08/09

3 Wissenschaftliche Arbeiten

Die wissenschaftlichen Aktivitäten am MPE sind organisatorisch in vier große Arbeitsbereiche aufgeteilt, die jeweils von einem Direktor geleitet werden: (1) Infrarot- und Submm/mm Astronomie, (2) Hochenergieastrophysik, (3) Optische und Interpretative Astronomie und (4) Theorie und komplexe Plasmen. Dazu untersucht noch eine kleinere Gruppe die Plasmaphysik des erdnahen Weltraums. Diese Arbeitsbereiche beschäftigen sich – oft bereichsübergreifend – mit unseren fünf großen Forschungsthemen (siehe “Allgemeines“). Unsere Wissenschaft ist ausführlich auf unseren Internetseiten (<http://www.mpe.mpg.de>) unter dem Punkt “Forschung“ dargestellt. Wichtige Einzelergebnisse sind unter “Aktuelles“ und “MPE Meilensteine“ in zeitlicher Reihenfolge beschrieben.

4 Diplomarbeiten, Dissertationen, Habilitationen

4.1 Diplomarbeiten

Eger, P.: Classification of X-ray sources in the Small Magellanic Cloud: Be/X-ray binaries observed with XMM-Newton. TU München 2008.

Genel, S.: The role of mergers in galaxy formation: comparison between the Millenium simulation and observations. LMU München 2008.

Grünecker, B.: Untersuchung der Röntgenemission rotationsgetriebener Pulsare mit Chandra, XMM-Newton und eROSITA. LMU München 2008.

Hamaus, N.: Simulation of Flares from the Galactic Center Black Hole. LMU München 2008.

Hözl, G.: Optische Hochgeschwindigkeits Shutter für gepulste Laserleitsysteme. TU München 2008.

Kolmeder, J.: Development and Characterization of a Tip-Tilt System for Astronomical Interferometry. TU München 2008.

Naumann, A.: Abbildungsmethoden in der Gammaastronomie. TU München 2008.

Pfuhl, O.P.: Optimization of PRIMA for the Observation of the Galactic Center. TU München 2008.

Rabe, J.: Navigation von Raumfahrzeugen mittels Röntgenpulsaren. LMU München 2008.

Rank, S.: Bestimmung der Helligkeitsverteilung von SgrA*. TU München 2008.

Tuong-Van Le, D.: Gravitationswellen von Neutronensternen. LMU München 2008.

4.2 Dissertationen

Bauer, M.: X-ray emission components of the starburst galaxy NGC 253. TU München 2008.

Bottacini, E.: High energy emission of jet sources. TU München 2008.

Müller Sanchez, F.: SINFONI Observations of Nearby AGN and Design of Interferometric Integral-Field Spectrograph for the LBT. LMU München 2008.

Orlando, E.: Gamma rays from interactions of cosmic-ray electrons. TU München 2008.

Schweitzer, M.: Optical alignment and characterization of FIFI-LS - the Far-Infrared Field Imaging Line Spectrometer for SOFIA and Spitzer IRS observations of active galaxies. LMU München 2008.

Trippe, S.: Ten Thousand Stars and One Black Hole: A Study of the Galactic Center in the Near Infrared. LMU München 2008.

Valiante, E.: High-redshift infrared galaxies: mid-infrared properties and evolutionary models. LMU München 2008.

5 Tagungen und Veranstaltungen

Turbulence and Hydrodynamical Instabilities, Garching, Germany, 17.-19. September 2008, Organisation: N. Adams, A. Burkert, N. Grün, H. Kerschbaum, F. Kupka, A. Müller, E. Müller, W.-C. Müller, F. Röpke, M.H. Thoma.

Gas and Stars in Galaxies - A Multi-Wavelength 3D Perspective, Garching, Germany, 10.-13. June 2008, Organisation: S. Aalto, P. Andreani, C. Carilli, F. Combes, C. De Breuck (co-chair), E. Emsellem, R. Kennicutt, M. Kissler-Patig, H. Kuntschner (co-chair), R. Laing, L. Staveley-Smith, L. Tacconi, L. Testi, J. van Gorkom, F. Walter, M. Zwaan (co-chair).

IAU Symposium 256: The Magellanic System, Stars, Gas, and Galaxies, Keele University, UK, 28. July 1. August 2008, Organisation: J. van Loon, B. Barbuy, G. Da Costa, M. Feast, Y. Fukui, E. Grebel, D. Hatzidimitriou, M. Heydari-Malayeri, B. Moore, W. Pietsch, M. Rubio, S. Stanimirovic, N. Walborn, L. Wyrzykowski.

Future Ground-Based Solar System Research: Synergies with Space Probes And Space Telescope, Isola d'Elba, Livorno, Italy, 8.-12. September 2008, Organisation: U. Käußl, A. Barucci, H. Boehnhardt, N. Biver, A. Coradini, E. Jehin, L.M. Lara, E. Lellouch, J. Licandro, K. Meech, T.G. Müller, R. Schulz, N. Thomas.

3rd Biennial Leopoldina Conference on Dark Energy, LMU München, 7.-11. October 2008, Organisation: R. Bender, S. Phleps, A. Bohnet, C. Ingram, R. Koehler, M. Lerchster, M. Rieperding, H.S. Schlegelhauser.

Galaxies in Real Life and Simulations, Lorentz Center, Leiden, The Netherlands,

15.-19. September 2008, Organisation: N.M. Förster Schreiber, M. Kriek, S. Charlot, A. Cimatti, J. Schaye, R. Somerville, P.G. van Dokkum.

Deconvolving Galaxy Evolution from High-z Surveys, Symposium 8 of JENAM 2008, Vienna, Austria, 7.-12. September 2008, Organisation: E. van Kampen, G. Hensler, C.J. Conselice, N.M. Förster Schreiber, F. Hammer, R. Ivison, J. Liske, H.-W. Rix, B. Ziegler.

Astronomy with Radioactivities VI., Ringberg Castle, Germany, 8.-11. January 2008, Organisation: R. Diehl, D.H. Hartmann, N. Prantzos.

Workshop of Universe Cluster on “Astrophysics with ^{60}Fe “, Universe Cluster, Garching, Germany, 15. July 2008, Organisation: R. Diehl, R. Krücken.

Plasmakristall-Symposium - 10 Years Russian&German Collaboration, Garching, Germany, 17.-18. November 2008, Organisation: G.E. Morfill, H.M. Thomas.

VLBI and high-resolution astronomy in the next decade, MPE, Garching, Germany, 29. June 2008, Organisation: A. Merloni.

The inner Kiloparsec: active galactic nuclei and their hosts, Ierapetra, Crete, Greece, 4.-6. June 2008, Organisation: M. Georganopoulos, A. King, A. Lobanov, A. Merloni, D. Merritt, M. Volonteri, H. Netzer, S. Rawlings.

Astronomy in the next decade: synergies with the SKA, Bonn, Germany, 14.-18. April 2008, Organisation: R. Beck, B. Ciardi, L. Ferretti, H.-R. Kloeckner, M. Kramer, A. Lobanov, A. Merloni, R. Morganti, T. Osterloo, S. Torchinsky

VLT-CRIRES observations of protoplanetary disks, Garching, Germany, 12.-15. May 2008, Organisation: E.F. van Dishoeck, K.M. Pontoppidan.

Water in star-forming regions with Herschel, Arcachon, France, 8. May 2008, Organisation: E.F. van Dishoeck.

6 Projekte am Institut

6.1 Kooperationen mit anderen Instituten

Argentinien

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

Australien

Australian National University: Galaxienentstehung.

Melbourne University: Astro-Plasmaphysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

Belgien

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

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

Brasilien

Universidade de Sao Paulo: Galaxienentstehung.

Chile

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme.

China

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

Institute for Plasma Physics, Hefei: Komplexe Plasmen.

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

Deutschland

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

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; Galaxienentstehung; ASTRO-WISE; OmegaCAM, PRIMA Testbed; MICADO.

Fraunhofer Institut für Festkörpertechnologie, München: XEUS; eROSITA.

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

IAP Berlin: HETDEX.

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; MICADO; HETDEX.

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

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

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 Drift-detektoren 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 Düsseldorf: Komplexe Plasmen.

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; AGADE.

Frankreich

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

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

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

GIS-Phase Paris: MICADO.

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

IGRP Marseille: Herschel-PACS.

Observatoire de Meudon: ASTRO-WISE.

Observatoire de Paris / LESIA: GRAVITY.

Großbritannien

Belfast Queen's University: PanSTARRS.

BRUNEL University: XEUS.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

Open University, Milton Keynes: Kataklysmische variable, Novae.

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 Hertfordshire: RoPACS.

University of Leeds: Komplexe Plasmen.

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.

Griechenland

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

Israel

Ber Sheva University: Astro-Plasmaphysik.

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

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

Italien

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen; XEUS.

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

INAF: Arcetri: ARGOS.

INAF Trieste: Gamma-Ray Bursts.

INFR Frascati: SIDDHARTA.

INAF Padua: Herschel-PACS; OmegaCam; MICADO.

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.

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; Röntgendetektorenentwicklung.

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.

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

Tohoku University: Komplexe Plasmen; IMPF.

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

Yokohama National University: Komplexe Plasmen.

Kroatien

Ministry of Science and Technology, Zagreb: CAST.

Niederlande

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

FOM Institute for Plasma Physics, Rijnhuizen: Komplexe Plasmen.

NOVA Leiden: MICADO.

SRON, Utrecht: 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.

Norwegen

Universität Trømsø: Komplexe Plasmen.

Österreich

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

Universität und TU Wien: Herschel-PACS.

Portugal

Universität Lissabon: Komplexe Plasmen.

Rumänien

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

Russland

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

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.

Schweden

University Stockholm: Komplexe Plasmen; Staubdetektion in Fusionsreaktoren.

Schweiz

CERN, Geneva: CAST.

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

Observatoire de Genève Sauverny, Geneva: ISDC.

Universität Bern: SOHO/CELIAS; STEREO/PLASTIC.

Spanien

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

LAEFF, Madrid: RoPACS.

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

Universidad de Zaragoza: CAST.

Observatorio Astronomico de Mallorca: Novae; Kometen.

Taiwan

National Central University, Chungli: IMPF; PanSTARRS.

Türkei

Bogazici University, Istanbul: IMPF; CAST.

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; NIR Kamera für Wendelstein.

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 Research Laboratory: Komplexe Plasmen.

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

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

Pennsylvania State University: HETDEX.

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

Space Telescope Science Institute, Baltimore: Galaxienentstehung.

Stanford University: Fermi/LAT; Fermi/GBM.

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

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; Komplexe Plasmen.

University of Colorado, Boulder: SAMPEX; Komplexe Plasmen.

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

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

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

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

University of Pittsburgh: Galaxienentstehung.

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

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung.

University of Washington, Seattle: CLUSTER/CIS.

University Space Research Association, Moffett Field: SOFIA.

6.2 Multinationale Projekte

AGADE – Advanced Gamma-ray Detectors: Skobeltsyn Institute Moscow, Russia; Universität Würzburg, Germany.

ARGOS – Laserleitstern für das LBT: API, LSW Heidelberg, MPIA, MPIfR, Germany; University of Arizona, USA.

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

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

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

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

CDFS – The Chandra Deep Field South: ESO Garching, Astrophysikalisches Institut Potsdam, Germany; IAP Paris, France; Osservatorio Astronomico Trieste; Istituto Nazionale di Fisica Nucleare Trieste, Italy; Associated Universities Washington, Johns Hopkins University Baltimore, Space Telescope Science Institute Baltimore, USA; Center for Astrophysics Hefei, China.

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

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

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

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

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

EUCLID - ESA Mission to map the Dark Energy: ESA; CEA Saclay, LAM, France; University Bologna, INAF, Italy; MSSL, Durham University, UKATC, UK; STScI, USA.

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

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

Fermi/LAT – Fermi Large Area 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.

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

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 In-

stitute of the Russian Academy of Sciences Moscow, Russia; Laboratory for High Energy Astrophysics GSFC Greenbelt, USA.

INTEGRAL-Spectrometer SPI: Centre d'Etude Spatiale des Rayonnements (CESR) Toulouse, CEA Saclay Gif-sur-Yvette, France; Institute de Physique Nucleaire Université de Louvain, Belgium; Istituto di Fisica Cosmica e Tecnologia del CNR Milano, Italy; University de Valencia Burjassot, Spain; University of Birmingham, UK; NASA/GSFC Greenbelt, University of California Berkeley.

IXO – International X-ray Observatory: University of Leicester, UK; SRON Utrecht, The Netherlands; Institut für Astronomie und Astrophysik Tübingen, Germany; CESR Toulouse, France; Institute of Space and Astronautical Science (ISAS), Japan.

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.

MICADO – MCAO Imaging Camera for Deep Observations: LMU, USM, MPIA, Germany; INAF Padova, Italy; NOVA, Federation of Dutch University Astronomy Departments, The Netherlands; GIS-Phase Paris, France.

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

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

PK-3 Plus (Plasma-crystal experiment): JIHT Moscow, Russia; University of Iowa City, USA; DLR-Köln, Germany; Université d'Orléans CNRS, France.

PK-4 (Plasma-crystal experiment): JIHT Moscow, Russia; Université d'Orléans CNRS, France; Universität Düsseldorf, Germany; FOM Rijnhuizen, The Netherlands; Kyoto Institute for technology, Japan; University Stockholm, Schweden.

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

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

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

RoPACS – Marie Curie Initial Training Network to study Rocky Planets around Cool Stars: University of Hertfordshire, Institute of Astronomy, Cambridge, UK; Instituto de Astrofisica de Canarias, Laboratono de Astrofisica Espacuval y Fisica Fundamental, Madrid, Spain; Main Astronomical Observatory, Kiev, Ukraine.

SDSS (Sloan Digital Sky Survey): MPA Garching, MPIA Heidelberg, Germany; Univ. of Washington, Seattle, Fermi National Accelerator Laboratory, Batavia, 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; JIHT, Moscow, Russia.

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.

6.3 Projekte mit der Industrie

ABN GmbH, Neuried: Betreuung der Testanlage PANTER.

ADTEC Plasma Technology Co. Ltd., Hiroshima: Entwicklung eines Niedertemperatur-Plasma-Gerätes zur in-vivo Sterilisation für Medizinanwendungen.

Albedo GmbH, München: Soft- and Hardware Entwicklung für PK-3 Plus; Elektronik für SDD-Auslese.

ASTEQ GmbH, Kelkheim: Fertigung von Detektorarrays aus gedrücktem Ge:Ga und Bearbeitung von Detektorproben aus Galliumarsenid; SAFARI.

BASF Coatings AG, Münster: Untersuchung der Streueigenschaften von Mikropartikeln.

Bonerz engineering, Weiler-Simmerberg: Platinenentwicklung, Elektronikentwicklung.

Buchberger GmbH, Tuchenbach: Fertigung Strukturteile für PANTER-Manipulatoren und OPTIMA; Strukturteile CAST und GROND, Lucifer.

Carl Zeiss, Jena: eROSITA Spiegel und Mandrels.

Drollinger, Birkenfeld: Vergoldung von Detektorteilen für FIFI-LS.

ESS, Landsberg: Wartung der Elektroinstallation; Ergänzung der Ansteuerungseinheit für das Vakuumpumpensystem; Fertigung von elektrischen Ansteuerungen für die Testanlagen PANTER, CALIFA und PUMA.

ESL GmbH, Berlin: Fertigung von Leiterplatten.

Frank Optic Products GmbH, Berlin: VIRUS-W Faserbündel.

Freyer GmbH, Tuningen: Fertigung von Strukturteilen für LUCIFER; PANTER.

Guido Lex Werkzeugbau GmbH, Miesbach: Strukturteile für FIFI-LS.

Hans Englett OHG, Berlin: Fertigung von Frontplatten und Meßvorrichtungen.

Harold Johnson, Gardena, USA: Spiegel und Normalisierungslinsen.

IMEC, Leuven, Belgium: Herstellung von kryogenen Ausleseelektronik-Schaltkreisen in neuer CMOS Technologie für IR-Detektoren auf Herschel-PACS; FIFI-LS; SAFARI.

Ingenieurbüro Buttler, Essen: Front-End Elektronikentwicklung für XEUS und eROSITA.

Ingenieurbüro Dohnalek, München: Entwurf FIFI-LS und Unterstützung beim Entwurf gedrückter Ge:Ga-Arrays.

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

Ingenieurbüro Steinbach, Jena: Design, Konstruktion und Fertigung von GROND Einheiten.

Ingenieurbüro Weisz, München: Design und Konstruktion für LUCIFER; PACS Testoptik; SAFARI.

JDS Uniphase Corporation, Milpitas, USA: VIRUS-W Schmalbandfilter.

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

Kayser-Threde GmbH, München: Hauptkontraktor für Herschel-PACS; Halbleiter-Detektoren Gamma-Astronomie; Plasmakristall-Experiment auf der Internationalen Raumstation;

PKE; PK-3 Plus; PK-4; eROSITA-Spiegelsystem.

Kugler GmbH, Salem: Spiegel für OPTIMA, FIFI-LS.

Laserjob GmbH, Grafrath, Entwicklung Röntgenbaffle für eROSITA.

PNSensor, München: Entwicklung und Fertigung von Halbleiterdetektoren; Montage von Halbleiterdetektorsystemen; ARGOS.

Pribil D., Unterhaching: Fertigung von Strukturteilen für OPTIMA; LUCIFER.

Sagem, Paris: Fertigung von Filtern für OmegaCAM.

SCHOTT GLAS, Mainz: Machbarkeitsstudie zur Spiegelfertigung; XEUS.

Siegert Electronics GmbH, Cadolzburg: Ausleseelektronik-Platinen für FIFI-LS; SAFARI.

Tafelmaier Dünnschichttechnik, Rosenheim: Beschichtung von optischen Komponenten für GROND.

Technotron, Lindau: Entwicklung und Fertigung der Platinen Layouts für eROSITA.

Zeiss, Oberkochen: Politur der Spiegel für SPIFFI.

7 Veröffentlichungen

7.1 In Zeitschriften und Büchern

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7.4 Bücher

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- Trümper, J.E. and G. Hasinger (Eds.): The Universe in X-rays. Astrophysics and Space Science Library. Springer, Berlin, Germany, 2008, 498 p.
- Tsyтович, V.N., G.E. Morfill, S.V. Vladimirov and H. Thomas (Eds.): Elementary Physics of Complex Plasmas, Lect. Notes Phys. 731. Springer, Berlin Heidelberg, 2008, 370 p.

7.5 Populärwissenschaftliche Veröffentlichungen

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- Lichti, G., A. von Kienlin: Die GLAST Mission: Ein Blick in die kosmischen Hexenkessel. *Sterne und Weltraum*, Heft 5, 40-49 (2008)
- Meisenheimer, K., D. Raban, K.R.W. Tristram, M. Schartmann, W. Jaffe, H. Röttgering and L. Burtscher: Mid-infrared Interferometry of Active Galactic Nuclei: an Outstanding Scientific Success of the VLTI. *The Messenger* 133, 36-41 (2008).
- Morelli, L., E. Pompei, A. Pizzella, J. Méndez-Abreu, E.M. Corsini, L. Coccato, R. Saglia, M. Sarzi and F. Bertola: Stellar Populations of Bulges of Disc Galaxies in Clusters. *The Messenger* 133, 31-35 (2008).
- Morfill, G.E. and H.M. Thomas: The Complex Matter of Plasma. *Scientific American - Looking Up Europe's Quiet Revolution in Microgravity Research*, 82-90 (2008).
- von Kienlin, A., R. Gräve: GLAST vor dem Start. *DLR Countdown*, Heft 2/08 (2008).

7.6 Vorträge, Astronomische Telegramme und Zirkulare, Poster

Von Mitarbeitern des MPE wurden im Jahre 2008 insgesamt 469 Vorträge auf Konferenzen, bei Seminaren und Kollquien und in der Öffentlichkeitsarbeit im In- und Ausland gehalten. Zusätzlich haben sie an insgesamt 123 astronomischen Telegrammen und Zirkularen mitgewirkt und 62 Postern als Erstautoren auf Konferenzen präsentiert. Die Zahlen, verteilt auf die einzelnen Arbeitsbereiche, sind in Tabelle 1 gelistet. Die Zahlen in Klammern geben die eingeladenen Vorträge (bei Konferenzen und zu Kollquien) an, sowie die Zahl der Erstautorschaften bei Telegrammen und Zirkularen.

Tabelle 1: Vorträge, Telegramme/Zirkulare und Poster

Arbeitsgruppe	Vorträge	Telegramme, Zirkulare	Poster
Weltraumplasmaphysik	29 (18)	0 (0)	4
Infrarot-/Submillimeter-Astronomie	115 (90)	1 (0)	7
Hochenergieastrophysik	214 (110)	122 (90)	19
Theorie / Komplexe Plasmen	84 (51)	0 (0)	25
Optische & Interpretative Astronomie	27 (18)	0 (0)	7

Die vollständige Liste der Vorträge, der astronomischen Telegramme und Zirkulare sowie der Poster kann auf der MPE Internetseite (<http://www.mpe.mpg.de>) unter dem Punkt "Veröffentlichungen" eingesehen werden.

8 Öffentlichkeitsarbeit

Das MPE engagiert sich auch in der Öffentlichkeitsarbeit. Im Jahre 2008 hielten MPE-Wissenschaftlern 56 Vorträge vor einem Laien-Publikum (z.B. an Schulen, Planetarien, bei Astronomischen Vereinigungen). In Institutsführungen wurde 24 Gruppen von bis zu 30 Personen, hauptsächlich Schüler und Lehrer von naturwissenschaftlich orientierten Schulen, das Institut und seine Arbeit erläutert. Am "Girl's Day" informierten sich 40 Mädchen über das MPE und 13 Schüler/innen erhielten in ein- oder zweiwöchigen Praktika einen Einblick in die Arbeitswelt von Plasma- und Astrophysikern.

Reinhard Genzel