

# 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 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. Physik des Erdnahen Weltraums*

Dipl. Phys. E. Georgescu, Dr. S. Haaland, Dr. B. Klecker, Dipl.-Phys. G. Leistner, Dr. O. Marghitu, Dr. F. Pitout, Dr. M. Volwerk, J. Zanker-Smith.

Doktoranden/Diplomanden:

A. Blagau.

*B. Infrarot-und Sub-mm-Astronomie*

A. Agudo Berbel, Dr. H. Bartko, Dipl.-Phys. O. Bauer, Dr. S. Berta, Dr. N. Bouché, Dr. A. Contursi, Dipl.-Phys. G. Cresci, Dr. R. Davies, Dr. F. Eisenhauer, Dipl.-Phys. H. Feuchtgruber, Dr. N. Förster Schreiber, A. Friedl, Dr. N. Geis, H. Gemperlein, Dr. S. Gillessen, A. Gräter, A. Gueguen, N. Hamaus, 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, S. Osterhage, Dr. A. Poglitsch, DR. P. Popesso, Dr. W. Raab, Dr. S. Rabien, Dr. W. Schmid, Dr. E. Sturm, Dr. L. Tacconi, Dr. M. Wetzstein, G. Wildgruber.

Doktoranden/Diplomanden:

Dipl.-Phys. P. Buschkamp, K. Dodds-Eden, Dipl.-Phys. H. Engel, S. Genel, Y. Harayama, G. Hölzl, J. Kolmeder, Dipl.-Phys. F. Müller-Sanchez, O. Pfuhl, S. Rank, M. Schropp, Dipl.-Phys. M. Schweitzer, E. Valiante.

*C. Röntgen-Astronomie*

Dr. R. Andritschke, Dr. B. Aschenbach, Prof. Dr. W. Becker, B. Boller, Prof. Dr. T. Boller, Dr. C. Braig, Dr. H. Bräuninger, Dr. U.G. Briel, Dr. H. Brunner, Dr. M. Brusa, Dr. W. Burkert, Dr. V. Burwitz, Dr. A. Carlson, Dr. K. Dennerl, Dr. A. Finoguenov, Dr. M. Freyberg, Dr. P. Friedrich, Dr. F. Haberl, Dipl.-Math. G. Hartner, M. Hirschinger, Dr. K. Iwasawa, Dr. S. Komossa, Dr. G. Lemson, Dr. N. Meidinger, D. Mießner, K. Misaki, Dr. A. Müller, V. Nosenko, Dipl.-Phys. E. Pfeffermann, Dr. W. Pietsch, Dr. M. Porro, Dr. P. Predehl, Dr. J.M. Ramirez, G. Schaller, Dr. F. Schopper, Dr. S. Shen, Dr. J. Silverman, Dr. I. Strateva, Prof. Dr. L. Strüder, Dr. G.P. Szokly, Prof. Y. Tanaka, Dr. J. Treis, Dr. W. Voges, M. Vongehr.

Doktoranden/Diplomanden:

Dipl.-Phys. I. Balestra, Dipl.-Phys. M. Bauer, Dipl.-Phys. N. Cappelluti, Dipl.-Phys. P. Chaudhary, P. Eger, V. Fedl, Dipl.-Phys. M. Fürmetz, B. Grünecker, Dipl.-Phys. M. Henze, Dipl.-Phys. H.-H. Huang, D. Hui, E. Hyde, C. Jocham, N. Kimmel, T. Lauf, Dipl.-Phys. M. Mühlegger, Dipl.-Phys. B. Posselt, J. Rabe, H. Stiehle, Dipl.-Phys. G. Schächner, Dipl.-Phys. S. Wölfel, L. Trepl.

*D. Gamma-Astronomie*

Dr. M. Ajello, B. Bribian-Sanchez, Dr. W. Collmar, Dr. R. Diehl, W. Frankenhuisen, Dr. J. Greiner, Dr. G. Kanbach, Dr. A. von Kienlin, Dr. A. Küpcü Yoldas, Dr. G.G. Lichti, Dr. S. McBreen, Dr. D. Petry, D. Rehm, Dr. G. Sala, Dr. S. Savaglio, Dr. A. Strong, Dr. R. Voss, A. Yoldas, Dr. X.-L. Zhang.

Doktoranden/Diplomanden:

P. Afonso, E. Bissaldi, E. Bottacini, J. Brunschweiler, Dipl.-Phys. C. Clemens, S. Duscha, Dipl.-Phys. B. Huber, Dipl.-Phys. K. Kretschmer, Dipl.-Phys. T. Kruehler, Dipl.-Phys. M. Lang, S. Löw, A. Naumann, E. Orlando, N. Prymak, Dipl.-Phys. A. Stefanescu, W. Wang.

*E. Theorie*

Dr. T. Aschenbrenner, Dr. H. Böhringer, Dr. W. Bunk, Dipl.-Phys. H. Höfner, Dr. A. Ivlev, Dr. F. Jamitzky, Dr. S. Khrapak, Dr. B. Klumov, Dr. C. Knappek, Dr. R. Kompaneets, Dr. U. Konopka, Dr. M. Kretschmer, Dr. Y. Li, Dr. R. Monetti, Dr. V. Nosenko, Dr. D. Pierini, Dr. R. Pompl, Dr. G. Pratt, Dr. M. Pustyl'nik, Dr. Ch. R  th, Dr. M. Rubin-Zuzic, Dr. H. Scheingraber, Dr. T. Shimizu, Dr. I. Sidorenko, Dr. M. Thoma, Dr. H. Thomas, Dr. V. Yaroschenko, Dr. S. Zhdanov.

Doktoranden/Diplomanden:

Dipl.-Phys. T. Antonova, F. Braglia, M. Chaudhuri, Dipl.-Phys. A. Els  ker, Dipl.-Phys. R. Fa  bender, Dipl.-Phys. M. Fink, R. Heidemann Dipl.-Phys. P. Huber, K. Jiang, S. Mitic, J. Santos, Dipl.-Phys. M. Schwabe, A. Simionescu, Dipl.-Phys. R. S  tterlin, Y-Y. Zhang.

*F. Optische und Interpretative Astronomie*

Prof. Dr. A. Burkert, L. Coccato, Dr. N. Drory, Prof. Dr. O. Gerhard, Dr. F. Grupp, Dr. U. Hopp, H. Kortoba, Dr. M. Krause, Dr. M. Montalto, Dr. B. Muschielok, Dr. S. Noll, Dr. E. Noyola y Loya, Dr. S. Phleps, Dr. H. Relke, M. Rieperdinger, Dr. R. Saglia, Dr. M. Schartmann, Dr. J. Snigula, Dr. D. Wilman, Dr. S. Zibetti.

Doktoranden/Diplomanden:

A. Balaguera Antolinez, J. Connelly, P. Das, Dipl.-Phys. F. De Lorenzi, Dipl.-Phys. M. Hirschmann, Dipl.-Phys. R. Koehler, Dipl.-Phys. J. Koppenh  fer, F. Montasano, Dipl.-Phys. L. Nieves, Dipl.-Phys. N. Nowak, Dipl.-Phys. M. Pannella, Dipl.-Phys. A. Ulubay Siddiki, A. Ventimiglia, Dipl.-Phys. S. Walch.

*G. Ingenieurbereiche und Werkst  tten*

## 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, R. Gressmann, Dipl.-Ing. (FH) T. Hagl, Dipl.-Ing. (FH) O. H  lker, O. Hans, M. Hengmith, Dipl.-Ing. (FH) S.-C. Herrmann, Dipl.-Ing. (FH) F. Huber, Dipl.-Ing. (FH) G. Jakob, Dipl.-Ing. S. Kellner, Dipl.-Ing. (FH) W. Kink, P. Langer, R. Lederer, W. Lieb, Dipl.-Ing. (FH) S. M  ller, F. Oberauer, C. Rau, P. Reiss, Dr. H. Rothermel, T. Rupperecht, M. Schneider, F. Schrey, B. Steffes, Dipl.-Ing. K. Tarantik, 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. Czempiel, C. Deyssenroth, M. Deyssenroth, G. Dietrich, Dipl.-Ing. (FH) K. Dittrich, J. Eibl, J. El-Masry, P. Feldmeier, J. Gahl, A. Goldbrunner, Dipl.-Ing. (FH) M. Haug, M. Honsberg, F.-X. Huber, Dipl.-Ing. H. Huber, N. 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, T. Blasi, J. Hartwig, S. Hasinger, D. Huber, E. Niemetz, M. Schindelmeier, A. Schneider, S. Senftleben.

*H. Zentrale DV-Gruppe*

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

*I. Publikationsunterstützung*

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

*J. Bibliothek*

E. Chmielewski, C. Hardt, R. Schurkus.

*K. Verwaltung und Allgemeine Dienste*

G. Apold, A. Arturo, M. Bauernfeind, M. Bidell, U. Bitzer, M. Blaschek, C. Brielmair, U. Cziasto, E. Doll, C. Eicher, M. Ertl, Y. Gießler, S. Goldbrunner, M. Grasemann, H.-P. Gschnell, R. Hübner, M. Ihle, I. Inhofer, T. Jäkel, 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, D. Schneider, Dipl.-Ökonom G. Seeger, R. Steinle, R. Strecker, A. Stuiber, L. Thiess, P. Troll, J. Vogt.

**2 Lehrtätigkeiten**

Annaratone, B.: Introduction to Complex Plasma, LMU München WS 06/07

Becker, W.: Weiße Zwerge, Neutronensterne und Schwarze Löcher, LMU München WS 06/07 und 07/08; Astrophysikalisches Doktorandenseminar mit den Studenten der *International Max-Planck Research School on Astrophysics*, LMU München WS 06/07, SS 07 und WS 07/08; Gravitationswellen und ihr Nachweis, LMU München SS 07

Bender, R.: Astronomisches Hauptseminar zur Astrophysik, LMU München SS 07 und WS 07/08; Astrophysikalisches Praktikum "A" und Übungen, LMU München WS 06/07, SS 07 und WS 07/08; Astrophysikalisches Praktikum "B" und Übungen, LMU München SS 07 und WS 07/08; Astronomisches Kolloquium, LMU München SS 07 und WS 07/08; IMPRS introductory course, IMPRS Garching SS 07; Extragalactic Journal Club, LMU München SS 07 und WS 07/08; Extragalactic Group Seminar, LMU München SS 07 und WS 07/08; Dark Matter and Dark Energy (E) WS 07/08

Böhringer, H.: Inflation und dunkle Energie in der Kosmologie, LMU München WS 06/07; Cosmology, Large-Scale Structure and Galaxy Clusters, IMPRS Garching WS 07/08

Boller, Th.: Distribution functions and advanced AGN science, University of Padua SS 07; Einführung in die Astronomie I, J.-W. von Goethe Univ. Frankfurt WS 06/07 und WS 07/08; Einführung in die Astronomie II, J.-W. von Goethe Univ. Frankfurt SS 07; Astrophysikalisches Praktikum, J.-W. von Goethe Univ. Frankfurt SS 07; Astrophysik III, J.-W. von Goethe Univ. Frankfurt WS 06/07 und WS 07/08; Advanced IMPRS lectures on AGN Science, IMPRS Garching SS 07

Burkert, A.: Sternentstehung, LMU München SS 07

Davies, R.: Adaptive Optics: Observations and Prospects for AGN Studies, Nicolas Copernicus University, Summer School 07

Diehl, R.: Seminar zu Fragen der Astrophysik, TU München WS 06/07, SS 07 und WS 07/08; Astrophysics Lecture Series for Graduate Students: „Nuclear Astrophysics with Cosmic Gamma-ray Observations“, Universitat Polytechnica de Catalunya, Barcelona SS 07

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

Genzel, R.: IMPRS Advanced Course: Experimental Astrophysics: Radio to Optical Wavelength Bands, IMPRS Garching SS 07; Modern Experimental Astrophysics: New Tools for Infrared Astronomy, University of California Berkeley 2007

Gerhard, O.: IMPRS Advanced Course II: Stellar dynamics, galaxy structure, simulation

of galaxies and the intergalactic medium. Part 2 on Structure of the Milky Way, IMPRS Garching WS 06/07

Gillessen, S.: Seminar "Tools in Modern Astrophysics", LMU München WS 06/07, SS 07 und WS 07/08

Greiner, J.: Seminar zu Fragen der Astrophysik, TU München WS 06/07, SS 07 und WS 07/08

Hasinger, G.: Einführung in die Astrophysik, TU München WS 06/07; IMPRS Advanced Course: Experimental Astrophysics: High Energy Astrophysics, IMPRS Garching SS 07; Seminar zu Fragen der Astrophysik, TU München WS 06/07, SS 07 und WS 07/08

Jamitzky, F.: Java Programmierkurs, LMU München WS 06/07; Grenzflächen und weiche Materie, LMU München WS 06/07 und SS 07

Kretschmer, M.: Fortgeschrittenenpraktikum III und IV - Versuch 03: Plasmakristall, TU München WS 06/07

Saglia, R.: IMPRS introductory course, IMPRS Garching SS 07

Schuecker, P.: Kosmologie der Inflation und Dunklen Energie, LMU München WS 06/07

Thoma, M.: Hadronen, Quarks und Symmetrien, Univ. Gießen WS 06/07; Physik des Quark-Gluon-Plasmas, Univ. Gießen SS 07; Introduction to Thermal Field Theory, IMPRS MPI für Physik SS 07; Einführung in die Transporttheorie, Univ. Gießen WS 06/07

Trippe, S.: Seminar "Tools in Modern Astrophysics", LMU München WS 06/07

### 3 Wissenschaftliche Arbeiten

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

### 4 Diplomarbeiten, Dissertationen, Habilitationen

#### 4.1 Diplomarbeiten

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.

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.

#### 4.2 Dissertationen

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.

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

## 5 Tagungen und Veranstaltungen

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

**Dynamics of Galaxies**, St. Petersburg, Russland, 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**, Wien, Österreich, 15.-20.4.2007, Organisation: H. Krüger, T.G. Müller, G. Schwehm.

**Five Years of INTEGRAL**, Chia Laguna, Italien, 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, Deutschland, 17.-23.6.2007, Organisation: S. Gillessen, R. Genzel, S. Harai-Ströbl, L. Tacconi.

**Galactic Positrons I.**, Bern, Schweiz, 24.- 27.1. 2007, Organisation: N. Prantzos, R. Diehl.

**Galactic Positrons II**, Bern, Schweiz, 24.-26.10. 2007, Organisation: N. Prantzos, R. Diehl.

**Gas Accretion and Star Formation in Galaxies**, Garching, Deutschland, 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, Italien, 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, Deutschland, 24.-26.1.2007, Organisation: M.H. Thoma, G.E. Morfill, H.M. Thomas.

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

**Simbol-X: the hard X-ray universe in focus**, Bologna, Italien, 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, Spanien, 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**, Schloß Ringberg, Deutschland, 29.-31.1.2007, Organisation: G. Haerendel, G. Paschmann, M. Rieperding.

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

## 6 Projekte am Institut

### 6.1 Kooperationen mit anderen Instituten

#### Argentinien

Observatorio Astronomico Felix Aguilar (OAFa), 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.

#### 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.

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

Deutschland

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; OmegaCAM, 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); Multi-Ionen 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 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 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.

#### Frankreich

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 - Auroraphysik; 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.

#### Großbritannien

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.

#### 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.

#### 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.

#### Italien

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; 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.

Kyushu University: IMPF.

Tohoku University: Komplexe Plasmen; IMPF.

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

#### Kroatien

Ministry of Science and Technology, Zagreb: CAST.

#### Niederlande

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

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; IMPF.

#### 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

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.

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.

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

Universidad de Zaragoza: CAST.

Taiwan

National Central University, Chungli: IMPF.

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.

Johns Hopkins University: PanSTARRS.

Lawrence Berkeley National Laboratory, Berkeley: Herstellung der Ge:Ga Detektorenelemente 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 Galliumarsenidematerial 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; Galliumarsenide-Zentrifuge; Polarlichtbeobachtungen; FAST; INTEGRAL-Spektrometer SPI; CLUSTER/CIS; STEREO.

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

## 6.2 Multinationale Projekte

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, Finnland; 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.

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.

### 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.

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; FIFI-LS; 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 Vakuumpumpsystem; Fertigung von elektrischen Ansteuerungen für die Testanlagen PANTER, CALIFA und PUMA.

ESL GmbH, Berlin: Fertigung von Leiterplatten.

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

GEWO, Wörth/Hörlkofen: Strukturteile für FIFI-LS.

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

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

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

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: Design und Konstruktion von GROND-Komponenten.

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

Ingenieurbüro Weisz, München: Design und Konstruktion für LUCIFER; PACS Testoptik; XEUS-Spiegeltechnologie.

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.

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.

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

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

Thomas Markl GmbH, Deisenhofen: Fertigung von Strukturteilen für PACS und FIFI-LS.

Zeiss, Oberkochen: Politur der Spiegel für SPIFFI.

## 7 Veröffentlichungen

### 7.1 In Zeitschriften und Büchern

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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## 7.6 Vorträge, Astronomische Telegramme und Zirkulare

Von Mitarbeitern des MPE wurden im Jahre 2007 insgesamt 460 Vorträge auf Konferenzen, bei Seminaren und Kolloquien und in der Öffentlichkeitsarbeit im In- und Ausland gehalten. Zusätzlich haben sie an insgesamt 98 astronomischen Telegrammen und Zirkularen mitgewirkt. Die Zahlen, verteilt auf die einzelnen Arbeitsgruppen, sind in Tabelle 1 gelistet. Die Zahlen in Klammern geben die eingeladenen Vorträge (bei Konferenzen und zu Kolloquien) an, sowie die Zahl der Erstautorschaften bei Telegrammen und Zirkularen.

Tabelle 1: Vorträge und Telegramme/Zirkulare

Arbeitsgruppe	Vorträge	Telegramme, Zirkulare
Weltraum Plasmaphysik:	47 (17)	0 (0)
Infrarot Astronomie:	84 (59)	5 (2)
Röntgen Astronomie:	149 (65)	35 (20)
Gamma Astronomie:	40 (23)	48 (19)
Theorie, komplexe Plasmen:	118 (59)	1 (0)
Interpretative Astronomie:	26 (13)	9 (0)

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

Günther Hasinger