

## Refereed Publications

- Abdo, A.A., B. Allen, T. Aune, D. Berley, E. Blaufuss, S. Casanova, C. Chen, B.L. Dingus, R.W. Ellsworth, L. Fleysler, R. Fleysler, M.M. Gonzalez, J.A. Goodman, C.M. Hoffman, P.H. Hütemeyer, B.E. Kolterman, C.P. Lansdell, J.T. Linnemann, J.E. McEnery, A.I. Mincer, I.V. Moskalenko, P. Nemethy, D. Noyes, T.A. Porter, J. Pretz, J.M. Ryan, P.M.S. Parkinson, A. Shoup, G. Sinnis, A.J. Smith, A.W. Strong, G.W. Sullivan, V. Vasileiou, G.P. Walker, D.A. Williams and G.B. Yodh: A Measurement of the Spatial Distribution of Diffuse TeV Gamma-Ray Emission from the Galactic Plane with Milagro. *Ap. J.* 688, 1078-1083 (2008).
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- Kompaneets, R. et al.: Screening of a charged dust particle in the rf plasma-wall transition layer, 35th European Physical Society Conference on Plasma Physics, Hersonissos, Crete, Greece, June 2008.
- Kompaneets, R. et al.: Linear shielding of a point charge in a plasma with drifting ions, 5th International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Konopka, U. et al.: PlasmaLab: The Future of Complex Plasma Space Experiments on the ISS, 5th International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.

- Kretschmer, M. et al.: Self-Organization Effects in Complex Plasmas: Lane Formation and Beyond, 5th International Conference on Physics of Dusty Plasmas (ICPDP), Ponta Delgada, Portugal, May 2008.
- Marghitu, O., et al.: Auroral electrodynamics in the Harang region, EGU General Assembly, Vienna, Austria, April 2008.
- Marghitu, O., et al.: New results on 3D current topology in the Harang region and prospects for KuaFu, 3rd International symposium on KuaFu project, Kunming, China, September 2008.
- Mokler, F. et al.: Charging Clouds in Brown Dwarfs, National Astronomy Meeting, NAM, Belfast, UK, April 2008.
- Mokler, F. et al.: Lightning in Brown Dwarfs, Cosmic Dust - Near and Far, Heidelberg, Germany, September 2008.
- Mokler, F.: Lightning in Brown Dwarfs, Cool Stars 15, St Andrews, UK, July 2008.
- Monetti, R. et al.: Characterizing Synchronization in Time Series using Information Measures Extracted from Symbolic Representations, XVI Conference on Nonequilibrium Statistical Mechanics & Nonlinear Physics, Punta del Este, Uruguay, December 2008.
- Monetti, R. et al.: Strength through structure: visualization and local assessment of the trabecular bone structure, XVI Conference on Nonequilibrium Statistical Mechanics & Nonlinear Physics, Punta del Este, Uruguay, December 2008.
- Monetti, R. et al.: Studying the effect of noise on the performance of 2D and 3D texture measures for quantifying the trabecular bone structure as obtained with high resolution MR imaging at 3 Tesla, SPIE Conference on Medical Imaging, San Diego, USA, February 2008.
- Montesano, F. et al.: BAO distortions in the Non Linear Power Spectrum, 3rd Leopoldina Conference on Dark Energy, Munich, Germany, October 2008.
- Mühlegger, M. et al.: Prospects for the eROSITA Cluster Survey, 3rd Biennial Leopoldina Conference on Dark Energy, Munich, Germany, October 2008.
- Müller, T.G. et al.: Herschel Open Time Key Programme: TNOs are Cool: A Survey of the Transneptunian Region, Asteroids, Comets, Meteors 2008, Baltimore, USA, July 2008.
- Müller, T.G. et al.: Herschel Open Time Key Programme: TNOs are Cool: A Survey of the Transneptunian Region, Europlanet (EPSC2008), Münster, Germany, September 2008.
- Müller, T.G. et al.: Herschel Open Time Key Programme: TNOs are Cool: A Survey of the Transneptunian Region, Future Ground-Based Solar System Research: Synergies With Space Probes And Space Telescope, Isola d'Elba, Livorno, Italy, September 2008.
- Nowak, N. et al.: Black holes in low- and high-mass bulges and pseudobulges, 24th Texas Symposium on Relativistic Astrophysics, Vancouver, Canada, December 2008.
- Nowak, N. et al.: Black holes in low-mass bulges and pseudobulges, The central kiloparsec - Active Galactic Nuclei and their hosts, Ierapetra, Crete, Greece, June 2008.
- Orlando, E. et al.: Gamma-ray Emission from the Sun: A Study with EGRET Data and Perspectives for GLAST, American Astronomical Society, HEAD meeting, Los Angeles, USA, March, 2008.
- Pietsch, W. et al.: [PMH2004] 47: The second eclipsing high mass X-ray binary in M 33, The X-ray Universe 2008, Granada, Spain, May 2008.
- Pustyl'nik, M. et al.: Damping of the oscillations of the dust particles levitating in a plasma at very low neutral pressures, Fifth International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Pustyl'nik, M. et al.: Effect of High-Voltage Nanosecond Pulses on Dust Particles levitating in a Plasma, International Congress on Plasma Physics, Fukuoka, Japan, May 2008.
- Pustyl'nik, M. et al.: High-voltage nanosecond pulses induced dynamics of the dust particles levitating in a plasma, Fifth International Conference on Physics of Dusty plasmas, Ponta Delgada, Portugal, May 2008.
- Raeth, C. et al.: Analysis methods for describing phase transitions in electrorheological (ER) plasmas, Fifth International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Raeth, C. et al.: Model-independent tests for scale-dependent non-Gaussianities in the CMB, 3rd Biennial Leopoldina Conference on Dark Energy, Munich, Germany, October 2008.
- Schwabe, M. et al.: Dust Waves in Complex Plasmas under Microgravity Conditions, 35th EPS Plasma Physics Conference, Hersonissos, Greece, June 2008.
- Schwabe, M. et al.: Waves In Complex Plasmas: From "Hypergravity" To Microgravity, Fifth International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Snigula, J. et al.: AGB stars in Local Group Dwarf Irregular Galaxies - Using LPVs and the Fuel Consumption Theorem as tracers of the stellar population, IAU Symposium 258:

The Ages of Stars, Baltimore, USA, October 2008.

Snigula, J. et al.: AGB Stars in metal-poor dwarf galaxies - LPVs and the fuel consumption theorem as tracers of stellar populations, The MPA/ESO/MPE/USM 2008 Joint Astronomy Conference - Chemical Evolution of Dwarf Galaxies and Stellar Clusters, Munich, Germany, July 2008.

Snigula, J. et al.: AGB stars in metal-poor dwarf galaxies - LPVs and the Fuel Consumption theorem as tracers of stellar populations, IAU Symposium 255 Low-Metallicity Star Formation: From the First Stars to Dwarf Galaxies, Rapallo, Italy, June 2008.

Snigula, J. et al.: The photometric classification client for PanStarrs1, ADASS XVIII, Quebec, Canada, November 2008.

Strateva, I. et al.: The X-ray point-source population of NGC 1365, Putting Gravity to Work: from black holes to galaxy clusters, Cambridge, UK, July 2008.

Thoma, M.H.: PK-4: Complex Plasmas in Space - the next Generation, Fifth International Conference on Physics of Dusty Plasmas, Ponta Delgada, Azores, Portugal, May 2008.

von Kienlin, A. et al: Using GRB080723B to cross-calibrate Fermi/GBM and INTEGRAL, The Sixth Huntsville Gamma-Ray Burst Symposium 2008, Huntsville, USA,

October 2008.

Wieprecht, E. et al.: The Herschel/Pacs Photometer Pipeline, Astronomical Data Analysis Software & Systems XVIII (ADASS Conference Series), Quebec City, Canada, November 2008.

Yaroshenko, V.V. et al.: The Wave Mechanism of Spoke Formation in Saturn's Rings, Fifth International Conference on the Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.

Zhdanov, S. et al.: Dislocation Nucleation in 2D Plasma Crystals, 19th European Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG 2008), Granada, Spain, July 2008.

Zhdanov, S. et al.: Dust Density Waves in Complex Plasmas, EGU General Assembly 2008, Vienna, Austria, April 2008.

Zuther, J. et al.: A low-z benchmark for scenarios linking type-1 QSO hosts with galaxy evolution, JENAM 2008, Vienna, Austria, September 2008.

Zuther, J. et al.: The host galaxies of X-raying AGN: Using the Virtual Observatory to search for AO/interferometry suitable targets, JENAM 2008, Vienna, Austria, September 2008.

## Talks

Aschenbach, B.: 21 years - living next door to SN 1987A, invited talk, Frontier Objects in Astrophysics and Particle Physics, Vulcano, Italy, May 2008.

Aschenbach, B.: Realisation of X-ray telescopes - from design to performance, invited talk, 400 Years of Astronomical Telescopes: A Review of History, Science and Technology, Noordwijk, The Netherlands, October 2008.

Aschenbach, B.: Unification of geometric and diffractive scattering from random rough surfaces, contributed talk, Meeting of the Society of Photo-Optical Instrumentation Engineers, San Diego, USA, August 2008.

Bartko, H.: Detailed Statistical Analysis of the Properties of the Stellar Disks in the Galactic Center, contributed talk, Astronomy at the Highest Resolution 2008, Bad Honnef, Germany, April 2008.

Bartko, H.: Microarcsecond Astrometry with GRAVITY, invited talk, VLTI Summer School, Keszthely, Hungary, June 2008.

Becker, W.: Future optical and X-ray facilities for pulsar studies, colloquium, MAGIC Science Meeting, Bad Aibling, Germany, April 2008.

Becker, W.: Gravitational Waves and their detection, colloquium, San Diego State University, San Diego, USA, April 2008.

Becker, W.: Neutron Stars, Supernova Remnants and eROSITA, colloquium, Sabanci University, Istanbul, Turkey, October 2008.

Becker, W.: Neutronensterne, Pulsare und Supernovaüberreste, colloquium, Förderkreis Planetarium Göttingen e.V., Germany, March 2008.

Becker, W.: Pulsars, to be studied with SIMBOL-X, invited talk, European Pulsar Timing Array Meeting, Bad Honnef, Germany, January 2008.

Becker, W.: X-ray emission properties of pulsars, invited talk, ASTRONS Meeting, Istanbul, Turkey, July 2008.

Becker, W.: X-ray emission properties of rotation-powered pulsars, contributed talk, 10th HEAD Meeting, Los Angeles, USA, April 2008.

- Bender, R.: Photometric Redshifts, invited talk, KIDS/DUEL Meeting, Leiden, the Netherlands, February 2008.
- Bender, R.: The supermassive black hole in M31, colloquium, Sterrewacht Leiden, The Netherlands February 2008.
- Bender, R.: Perspectives in optical and near-infrared instrumentation, invited talk, Ringberg meeting on surveys, Ringberg, Germany, May 2008.
- Bender, R.: The Formation of Galaxies, Stars and Planets, invited talk, Symposium on Basic Research in Space, Bayrisches Wirtschaftsministerium, München, Germany, June 2008
- Bender, R.: Dark Matter and Dark Energy, invited talk, Physics Faculty Meeting, Salzburg, Austria, July 2008.
- Bender, R.: Dark Energy, public talk, Munich Science Days, München, Germany, October 2008.
- Berta, S.: ESIS: The ESO-Spitzer wide-area Imaging Survey, invited talk, ESO workshop on large programmes, Garching, Germany, October 14th, 2008.
- Berta, S.: High redshift massive galaxies: the SWIRE view, colloquium, IASF: Istituto di Astrofisica Spaziale e Fisica Cosmica, Milano, Italy, December 2008.
- Berta, S.: High redshift massive galaxies: the SWIRE view, colloquium, MPA Cosmology Seminar, Garching, Germany, April, 2008.
- Bhattacharya, B.: Asteroid Lightcurves: Spitzer/TMO Observations and Thermal Modeling, contributed talk, Asteroids, Comets Meteors 2008, Baltimore, USA, July 2008.
- Bissaldi, E.: On-ground calibration of the GLAST Burst Monitor detectors, contributed talk, AGADE Workshop, Garching, Germany, June 2008.
- Bissaldi, E.: RMFIT at work: Examples of GRB analysis, contributed talk, Fermi/LAT Collaboration Meeting, Stanford, USA, March 2008.
- Blagau, A.: Addressing open questions on MHD reconnection tests at the magnetopause with CIS, CIS Cluster/HIA Double Star/RAPID Cluster Joint Team Meeting and Solar Wind-Magnetosphere interaction Workshop, contributed talk, Venice, Italy, October, 2008.
- Blagau, A.: The magnetopause as a rotational discontinuity: open issues on MHD reconnection tests, contributed talk, EGU General Assembly, Vienna, Austria, April 2008.
- Blagau, A.: Timing technique for determining the macroscopic characteristics of a 2D, non-planar magnetopause, contributed talk, 15th Cluster workshop, Tenerife, Spain, March, 2008.
- Boller, Th.: Anfang und Ende des Universums, public talk, Max-Planck-Hauptversammlung Schulvorträge, Dresden, Germany, June 2008.
- Boller, Th.: Anfang und Ende des Universums, public talk, Max-Planck-Hauptversammlung, Schulvorträge, Brand-Erbisdorf, Germany, June 2008.
- Boller, Th.: Anfang und Ende des Universums, public talk, Max-Planck-Hauptversammlung, Schulvorträge, Pirna, Deutschland, June 2008.
- Boller, Th.: Die wahre Geschichte des Sterns von Bethlehem, public talk, Evangelische Kirche Judenbach, Germany, December 2008.
- Boller, Th.: Die wahre Geschichte des Sterns von Bethlehem, public talk, Lions Club Fürstenfeldbruck, Germany, December 2008.
- Boller, Th.: Die wahre Geschichte des Sterns von Bethlehem, public talk, Vortrag bei Lions Club Munich Mariott Hotel, Germany, November 2008.
- Boller, Th.: Hyper Soft Quasars, colloquium, Colloquium of the Department of Astronomy, University of Padova, Italy, May 2008.
- Boller, Th.: On the unusual SED of the quasar HB89 0102-272, contributed talk, Simbol-X Meeting, Paris, France, December 2008.
- Boller, Th.: Photoionized Plasma Diagnostics for XEUS, contributed talk, The X-ray universe 2008, Granada, Spain, May 2008.
- Boller, Th.: Über Irrtümer, „wishful thinking“ und gesichertes Wissen der Astrophysik, public talk, Astronomie Lehrerweiterbildung, Jena, Germany, July 2008.
- Boller, Th.: Über Irrtümer, gesichertes Wissen der Astrophysik und ‚wishful thinking‘, public talk, Max-Planck-Hauptversammlung Schulvorträge, Dresden, Germany, June 2008.
- Bongiorno, A.: The type-2 AGN luminosity function: results from COSMOS, contributed talk, Multi-wavelength survey, Bologna, Italy, September 2008.
- Bongiorno, A.: Type-2AGN population from the zCOSMOS survey, contributed talk, Active Galactic Nuclei 8, Turin, Italy, May 2008.
- Bongiorno, A.: Type-2 AGN population from the zCOSMOS survey, contributed talk, COSMOS meeting, Paris, France, June 2008.
- Bouché, N.: A SIMPLE way to study starbursts at  $z=1$  and beyond, colloquium, Department of Physics and Astronomy, Tel Aviv University, Israel, May 2008.

- Bouché, N.: A SIMPLE way to study starbursts at  $z=1$  and beyond, contributed talk, HST after servicing mission 4, Bologna, Italy, January 2008.
- Bouché, N.: Are strong MgII absorbers a signature of outflows, contributed talk, The Role of Disk-Halo Interaction in Galaxy Evolution: Outflow vs Infall?, Espinho, Portugal, August 2008.
- Bouché, N.: Galaxies with high-star formation rates at  $z=2$ , contributed talk, Galaxy Evolution workshop, Hebrew University, Jerusalem, Israel, June 2008.
- Bouché, N.: Galaxy formation from 3D spectroscopy, colloquium, Laboratoire d'Astrophysique de Toulouse-Tarbes, Toulouse, France, April 2008.
- Bouché, N.: What is driving star formation at high- $z$ ? Insights from scaling relations, colloquium, Observatoire de Paris, Meudon, Paris, France, November 2008.
- Bouché, N.: What is driving star formation at high- $z$ ?, colloquium, European Southern Observatory, Santiago, Chile, September 2008.
- Bouché, N.: What is driving star formation at high- $z$ ?, colloquium, Observatoire Astronomique de Marseille-Provence, Marseille, France, August 2008.
- Bouché, N.: SINFONI and CO observations of high-redshift galaxies, invited talk, „Gas and Stars in galaxies – A 3D perspective“, Garching, Germany, June 2008.
- Brusa, M.: AGN at high and very high redshifts, invited talk, 2nd eROSITA meeting, Bamberg, Germany, October 2008.
- Brusa, M.: Evolution of Supermassive Black Holes from large area X-ray surveys, invited talk, 8th Italian National Congress on AGN, Turin, Italy, May 2008.
- Brusa, M.: Obscured AGN from MIR surveys, contributed talk, Aspen Center for Physics - Summer workshop, Aspen, USA, July 2008.
- Brusa, M.: The high-redshift AGN population in XMM-COSMOS, contributed talk, The X-ray Universe 2008, Granada, Spain, May 2008.
- Brusa, M.: The host galaxies of obscured AGN in the CDFS, contributed talk, The starburst-AGN connection, Shanghai, China, October 2008.
- Brusa, M.: The population of high- $z$  AGN from XMM-COSMOS, contributed talk, COSMOS meeting, Paris, France, June 2008.
- Brusa, M.: X-ray selected, high-redshift quasars, colloquium, Penn State University, State College, USA, August 2008.
- Brusa, M.: X-raying the COSMOS, colloquium, Osservatorio Astronomico di Bologna, Italy, June 2008.
- Burwitz, V.: Beobachtung und Interpretation von Röntgenstrahlung akkretierender weisser Zwerge, colloquium, TU Berlin, Germany, January 2008.
- Burwitz, V.: Chandra und XMM-Newton Beobachtungen akkretierender weisser Zwerge, colloquium, Dr. Reimeis Sternwarte Bamberg, Germany, February 2008.
- Burwitz, V.: X-ray observations of accreting white dwarfs, colloquium, Sharif University Tehran, Iran, March 2008.
- Burwitz, V.: Cross-calibration results from observations of the INS RX J1856, and the WDs HZ 43 and Sirius B, contributed talk, IACHEC Meeting, Schloss Ringberg, Germany, May 2008.
- Cappelluti, N.: AGN in Galaxy clusters, colloquium, Smithsonian Center for Astrophysics, Boston, USA, March 2008.
- Cappelluti, N.: The Environment of AGN: Highlights from The Cosmos Survey, colloquium, Space Telescope Science Institute, Baltimore, USA, March 2008.
- Cappelluti, N.: The XMM and Chandra COSMOS survey, colloquium, California Institute of Technology, Pasadena, USA, April 2008.
- Cappelluti, N.: The XMM-COSMOS survey, colloquium, INAF-Osservatorio Astronomico di Bologna, Italy, October 2008.
- Cappelluti, N.: The XMM-COSMOS wide field survey in the COSMOS field, contributed talk, COSMOS meeting, Paris, France, June 2008.
- Cappelluti, N.: X-ray survey, colloquium, UNAM-Ensenada, Ensenada, Mexico, May 2008.
- Collmar, W.: Gamma-Ray Lightcurves and GROND Spectra of the Blazars 3C 279 and PKS 0208-512, contributed talk, Fermi Collaboration Meeting, Stanford, USA, September 2008.
- Cresci, G.: Processing and visualizing 3D near infrared data, invited talk, Gas and Stars in Galaxies - A Multi-Wavelength 3D Perspective, Garching, Germany, June 2008.
- Cresci, G.: The infrared SN rate, invited talk, Supernova Rates 2008, Florence, Italy, May 2008.
- Das, P.D.: The orbital structure of the massive elliptical galaxy NGC 5846, contributed talk, Galactic & Stellar Dynamics in the Era of High Resolution Surveys, Strasbourg, France, March 2008.
- Davies, R.: Exploring the Starburst-AGN Connection on 10pc Scales with Adaptive Optics, colloquium, University

- of California, Santa Cruz and the Center for Adaptive Optics, Santa Cruz, USA, March 2008.
- Davies, R.: Exploring the Starburst-Torus-AGN Connection on 10pc Scales with Adaptive Optics, colloquium, ETH, Zurich, Switzerland, November 2008.
- Davies, R.: Exploring the Starburst-Torus-AGN Connection on 10pc Scales with Adaptive Optics, colloquium, IPAC, Caltech, Pasadena, USA, November 2008.
- Davies, R.: Exploring the Starburst-Torus-AGN Connection on 10pc Scales with Adaptive Optics, colloquium, University of Tel Aviv, Israel, March 2008.
- Davies, R.: MICADO: the adaptive optics imaging camera for the E-ELT, contributed talk, Science with AO fed instruments on large telescopes, Anglo-Australian Observatory, Dunk Island, Australia, April 2008.
- Davies, R.: Observations of AGN with Adaptive Optics, invited talk, Anglo-Australian Observatory, Dunk Island, Australia, April 2008.
- Davies, R.: MICADO: the adaptive optics imaging camera for the E-ELT, contributed talk, Detector Workshop, Oxford, UK, June 2008.
- de Vita, G.: Integrated Front-End Readout Electronics and Analog Filtering Strategies for DEPFETs with Special Functionalities, contributed talk, IEEE Nuclear Science Symposium, Dresden, Germany, October 2008.
- Dennerl, K.: eROSITA Calibration, contributed talk, 3rd IACHEC Meeting, Ringberg, Germany, May 2008.
- Dennerl, K.: eROSITA/TRoPIC Detector Calibration, contributed talk, 2nd eROSITA Consortium Meeting, Bamberg, Germany, October 2008.
- Diehl, R.:  $^{26}\text{Al}$  Emission throughout the Galaxy, contributed talk, Astronomy with Radioactivities VI., Schloss Ringberg, Germany, January 2008.
- Diehl, R.: Abundance Constraints on Nuclei in the Cosmos: Principles and Methods, invited talk, JINA School on Nuclei in the Cosmos, Argonne, USA, July 2008.
- Diehl, R.: Cosmic Gamma-Rays: Measuring Radioactive Isotopes in the Universe, colloquium, Kolloquium Dep. of Physics & Astronomy, Clemson, USA, August 2008.
- Diehl, R.: Future instrumentation and prospects for astrophysics with  $^{60}\text{Fe}$ , contributed talk, Workshop of Universe Cluster on „Astrophysics with  $^{60}\text{Fe}$ “, Garching, Germany, July 2008.
- Diehl, R.: Gamma-Ray Astronomy, invited talk, 4th VISTARS Workshop, Russbach, Austria, March 2008.
- Diehl, R.: Gamma-Ray Bursts, invited talk, Symposium „Symmetries and Phases in the Universe“, Irsee, Germany, June 2008.
- Diehl, R.: In-Orbit Instrument Performances and Extraction of Astronomical Information, contributed talk, Workshop on Advanced Gamma-Ray Detectors, Garching, Germany, June 2008.
- Diehl, R.: INTEGRAL and Gamma-Ray Lines from Cosmic Nucleosynthesis, contributed talk, 10th Int. Conference „Nuclei in the Cosmos“, MacKinnac Island, USA, August 2008.
- Diehl, R.: Lessons from Gamma-Ray Line Observations with INTEGRAL, contributed talk, 14th. Nuclear Astrophysics Workshop, Schloss Ringberg, Germany, March 2008.
- Diehl, R.: Measuring Cosmic Elements with Gamma-Ray Telescopes, contributed talk, Workshop „Origin of Elements Heavier than Fe“, Torino, Italy, September 2008.
- Diehl, R.: Measuring Radioactive Nuclei in the Universe, colloquium, Physikalisches Kolloquium TU, Dresden, Germany, June 2008.
- Diehl, R.: Nuclear Astrophysics with Cosmic Gamma-Rays, invited talk, 8th International Conference on Particles and Nuclei (PANIC08), Eilat, Israel, November 2008.
- Diehl, R.: Particle Acceleration in Astrophysics, invited talk, Int. Workshop „Extreme Light Infrastructure“, Frauenchiemsee, Germany, September 2008.
- Diehl, R.: Positron Annihilation Emission, invited talk, 7th INTEGRAL Science Workshop „Compact Objects“, Copenhagen, Denmark, September 2008.
- Diehl, R.: Why  $^{60}\text{Fe}$  is interesting for nuclear astrophysics, contributed talk, Workshop of Universe Cluster on „Astrophysics with  $^{60}\text{Fe}$ “, Garching, Germany, July 2008.
- Eisenhauer, F.: 3D spectroscopy with adaptive optics, invited talk, SPIE Astronomical Instrumentation, Marseille, France, June 2008.
- Eisenhauer, F.: An Update on the Galactic Center black hole: From the stars to the event horizon, from adaptive optics with NACO/SINFONI to interferometry with GRAVITY, colloquium, TU Munich, Garching, Germany, July 2008.
- Eisenhauer, F.: GRAVITY: Microarcsecond astrometry and deep interferometric imaging with the VLT, invited talk, The Universe under the Microscope, Bad Honnef, Germany, April 2008.
- Eisenhauer, F.: High Angular Resolution Astronomy with Adaptive Optics and Interferometry, invited talk, Ringvorlesung: Methoden und Instrumentierung in der

- Kern-, Teilchen- und Astrophysik, TUM-Exzellenzcluster „Origin and Structure of the Universe“, Garching, Germany, January 2008.
- Fassbender, R.: Distant X-ray Luminous Galaxy Clusters from the XMM-Archive, contributed talk, XMM XXL Survey Workshop, Paris, France, April 2008.
- Fassbender, R.: New X-ray Luminous Galaxy Clusters at  $z \geq 1$  and their Galaxy Populations, colloquium, Center for Astrophysics (CfA), Cambridge, USA, November 2008.
- Fassbender, R.: New X-ray Luminous Galaxy Clusters at  $z \geq 1$  and their Galaxy Populations, colloquium, Department of Astronomy, University of Bologna, Italy, December 2008.
- Fassbender, R.: New X-ray Luminous Galaxy Clusters at  $z \geq 1$  and their Galaxy Populations, colloquium, Department of Astronomy, University of Illinois at Urbana/Champaign, USA, November 2008.
- Fedl, V.: Investigation of Single Pixel DePMOSFETs under cryogenic conditions, contributed talk, IEEE Conference, Dresden, Germany, October 2008.
- Förster Schreiber, N.M.: Kinematics of High Redshift Galaxies, invited talk, Galactic Structure and the Structure of Galaxies, Ensenada, Mexico, March 2008.
- Förster Schreiber, N.M.: Latest results from the SINS survey, invited talk, Galaxy evolution from mass-selected samples, Leiden, The Netherlands, January 2008.
- Förster Schreiber, N.M.: Resolving the Dynamics and Physical Properties of  $z \sim 2$  Galaxies, colloquium, Zentrum für Astronomie, Universität Heidelberg, Germany, October 2008.
- Förster Schreiber, N.M.: SED Modeling: Update, invited talk, Galaxy evolution from mass-selected samples, Leiden, The Netherlands, January 2008.
- Förster Schreiber, N.M.: SINS: Watching Galaxies Grow, colloquium, Padova Observatory, Italy, June 2008.
- Förster Schreiber, N.M.: SINS: Watching Galaxies Grow, invited talk, Meeting of the Computational Astrophysics Group of the Universitätssternwarte München, Schliersee, Germany, February 2008.
- Förster Schreiber, N.M.: The SINS survey of high redshift star-forming galaxies, invited talk, Conference: Gas and Stars in Galaxies - a Multi-wavelength 3D Perspective, Garching, Germany, June 2008.
- Förster Schreiber, N.M.: The SINS Survey of  $z \sim 2$  Star-forming Galaxies, invited talk, Bi-Annual meeting of the AEGIS Team, London, UK, May 2008.
- Förster Schreiber, N.M.: The SINS survey: New Insights on Galaxy Growth, colloquium, Geneva Observatory, Sauvergnay, Switzerland, July 2008.
- Förster Schreiber, N.M.: The SINS survey: New Insights on Galaxy Growth, invited talk, Department of Physics and Astronomy, University of California, Los Angeles, USA, October 2008.
- Genel, S.: Mass accretion and merger rates in galaxy assembly: insights from the Millennium Simulation, invited talk, Astro Seminar, Department of Astronomy and Astrophysics, Tel Aviv University, Israel, December 2008.
- Genel, S.: Mass accretion and merger rates in galaxy assembly: insights from the Millennium Simulation, invited talk, Astrophysics Seminar, The Racah Institute of Physics, The Hebrew University of Jerusalem, Israel, December 2008.
- Genel, S.: Mergers and Mass Accretion Rates in Galaxy Assembly: The Millennium Simulation Compared to Observations of  $z \sim 2$  Galaxies, contributed talk, Galaxy Evolution: Emerging Insights and Future Challenges, The University of Texas, Austin, USA, November 2008.
- Genel, S.: The Role of Mergers in galaxy formation: Insights from the Millennium Simulation, invited talk, USM Group Outing, Munich, Germany, February 2008.
- Genzel, R.: The Galactic Center: A Unique Laboratory for Studying Fundamental Physical Processes Near Black Holes, invited talk, ESO Workshop on Large Programmes, ESO Garching, Germany, October 2008.
- Genzel, R.: Zooming in on the Galactic Center, invited talk, 400 Years of Astronomical Telescopes A Review of History, Science and Technology, ESA-ESTEC, Noordwijk, The Netherlands, September 2008.
- Genzel, R.: The Massive Black Hole at the Center of the Milky Way, invited talk, Annual Meeting of the Belgian Physical Society, Brussels, Belgium, May 2008.
- Genzel, R.: Applying AO for Studying the Center of the Milky Way, colloquium, University of California, Berkeley, USA, February 2008.
- Genzel, R.: Black Holes, invited talk, Festkolloquium zu Ehren von Prof. Joachim Trümper anlässlich seines 75. Geburtstag, MPE, Garching, Germany, July 2008
- Genzel, R.: Evidence for Rapid Secular Galaxy Evolution at  $z=2$ , invited talk, Santa Cruz Galaxy Workshop, Santa Cruz, USA, August 2008.
- Genzel, R.: From Rings to Bulges: Secular Evolution of Galaxy Disks at high- $z$ , colloquium, University of California, Berkeley, USA, February 2008.

- Genzel, R.: Future Science with AO, Science with AO-fed Instruments on Large Telescopes, invited talk, Dunk Island, Australia, April 2008.
- Genzel, R.: Massive Black Holes and Galaxies, invited talk, Sackler Lecture, Institute of Astronomy, Cambridge, UK, November 2008.
- Genzel, R.: Massive Black Holes and Galaxies, public talk, Kavli Institute for Astronomy and Astrophysics, Peking, China, November 2008.
- Genzel, R.: Massive Black Holes and Galaxies, invited talk, Shaw Prize Lecture in Astronomy, Hong Kong, China, September 2008.
- Genzel, R.: Massive Black Holes, colloquium, University of California, Berkeley, USA, February 2008.
- Genzel, R.: Secular Galaxy Evolution and Bulge Formation at  $z \sim 2$ , colloquium, Kavli Institute for Astronomy and Astrophysics, Peking, China, November 2008.
- Genzel, R.: Secular Galaxy Evolution and Bulge Formation at  $z \sim 2$ , invited talk, The Starburst-AGN Connection, Shanghai Normal University, China, October 2008.
- Genzel, R.: Spatially Resolved Dynamics of High- $z$  Star Forming Galaxies, colloquium, Columbia University, USA, April 2008.
- Genzel, R.: Spatially Resolved Dynamics of High- $z$  Star Forming Galaxies, invited talk, IAU Symposium 254 "The Galaxy Disk in Cosmological Context", Copenhagen, Denmark, June 2008.
- Genzel, R.: Spatially Resolved Dynamics of High- $z$  Star Forming Galaxies, invited talk, SPIE Conference 7015 "Adaptive Optics Systems", Marseille, France, June 2008.
- Genzel, R.: Spatially-resolved dynamics and star formation at high redshift, invited talk, Galaxies in Real Life and Simulations, Leiden, The Netherlands, September 2008.
- Genzel, R.: The Black Hole at the Galactic Center, colloquium, Tel Aviv University, Tel Aviv, Israel, June 2008.
- Genzel, R.: The Black Hole at the Galactic Center, invited talk, 24th Texas Symposium on Relativistic Astrophysics, Vancouver, Canada, December 2008.
- Genzel, R.: The Black Hole in the Center of Our Galaxy, colloquium, Paul Scherrer Institute (PSI), Villigen, Switzerland, May 2008.
- Genzel, R.: The Conference Summary Comments, invited talk, Dunk Island, Australia, April 2008.
- Genzel, R.: The Massive Black Hole at the Center of the Milky Way, invited talk, Bishop Lecture, Columbia University, New York, USA, April 2008.
- Genzel, R.: The Massive Black Hole at the Center of the Milky Way, colloquium, Princeton, USA, April 2008.
- Genzel, R.: The Nuclear Star Cluster and Central Massive Black Hole, Putting Gravity to Work - From Black Holes to Galaxy Clusters, invited talk, Conf. in Honour of Andy Fabian, Institute of Astronomy, University of Cambridge, July 21-25, 2008 Cambridge, UK, July 2008.
- Genzel, R.: Von massiven Schwarzen Löchern und Galaxien, public talk, Einstein Lecture, Einstein-Gesellschaft, Berlin, Germany, October 2008.
- Genzel, R.: Young Star Disks in the Galactic Center, colloquium, Theoretical Astrophysics Lunch Seminar, VC Berkeley, USA, August 2008.
- Gerhard, O.E.: Dark Matter in Galaxies, invited talk, Science Day Research Area E, Excellence Cluster, Garching, Germany, December 2008.
- Gerhard, O.E.: Pattern Speeds in the Milky Way, invited talk, Twisting and Winding Galaxies: Pattern Speeds along the Hubble Sequence, Padova, Italy, August 2008.
- Gerhard, O.E.: The NMAGIC Project and the Dynamics of Elliptical Galaxies, invited talk, Galactic and Stellar Dynamics in the Era of High Resolution Surveys, Strasbourg, France, March 2008.
- Gillessen, S.: Multi-wavelength observations of Sgr A\*, invited talk, The Universe under the Microscope - Astrophysics at High Angular Resolution, Bad Honnef, Germany, April 2008.
- Gillessen, S.: Dem Urknall auf der Spur, public talk, Bochum, Germany, June 2008.
- Gillessen, S.: Ferne Planetenwelten, public talk, VHS, München, Germany, October 2008.
- Gillessen, S.: Schwarze Löcher - Science Fiction der Realität?, public talk, Sternwarte Ingolstadt, Germany, December 2008.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?, public talk, Lehrerfortbildung, München, Germany, April 2008.
- Gillessen, S.: Wellen im Urknallplasma, public talk, VHS, München, Germany, October 2008.
- Greiner, J.: A strong flare in GRB 080129, contributed talk, 6th Huntsville GRB Symp., Huntsville, USA, October 2008.
- Greiner, J.: Gamma-Ray Burst Afterglow variability: Recent surprises with GROND, invited talk, Conf. on High-energy sources at different time scales, Kathmandu, Nepal, October 2008.

- Greiner, J.: Gamma-Ray Burst Beobachtungen mit Fermi/GLAST und GROND, colloquium, TUM Lehrstuhl Raumfahrttechnik, München, Germany, November 2008.
- Greiner, J.: Gamma-Ray Bursts: How to detect them at high  $z$ ?, invited talk, 24th IAP Conf.: Far away: Light in the young Universe beyond redshift three, Paris, France, July 2008.
- Greiner, J.: Gamma-Ray bursts: Recent News, Joint Astronomy Coll., colloquium, ESO Garching, Germany, October 2008.
- Greiner, J.: GRB 080913 at  $z=6.7$ , invited talk, 6th Huntsville GRB Symp., Huntsville, USA, October 2008.
- Greiner, J.: GRB 080913: The new redshift record, colloquium, MPA High-Energy Seminar, Garching, Germany, September 2008.
- Greiner, J.: GRIPS: A broad-band high-energy mission, invited talk Infrastructure Roadmap Symp., Liverpool, UK, June 2008.
- Greiner, J.: GROND: Capabilities and selected results, colloquium, 1-day Seminar „10th anniversary of GRB/SN 1998bw“, MPA Garching, Germany, April 2008.
- Greiner, J.: GRS 1915+105: Simultaneous high time-resolution observations with XMM-Newton and VLT/ISAAC, contributed talk, 7th Microquasar workshop, Foca, Turkey, September 2008.
- Greiner, J.: On the nature of VY Scl stars, colloquium, Univ. Concepcion, Chile, November 2008.
- Haberl, F.: The XMM-Newton view of the Small Magellanic Cloud, contributed talk, IAU Symposium 256, The Magellanic System: Stars, Gas, and Galaxies, Keele, UK, July 2008.
- Haberl, F.: X-ray emission from Isolated Neutron Stars, invited talk, The X-ray Universe 2008, Granada, Spain, May 2008.
- Haberl, F.: X-ray observations of Isolated Neutron Stars, invited talk, 37th COSPAR Scientific Assembly, Astrophysical Studies of Neutron Stars from Multi-wavelength Observations, Montreal, Canada, July 2008.
- Haerendel, G.: Das Unsichtbare sichtbar machen: Bariumwolkenexperimente im Weltraum, colloquium, 56. Erich-Regener-Vortrag, Max-Planck-Institut für Sonnensystemforschung, Katlenburg-Lindau, Germany, February 2008.
- Haerendel, G.: Barium clouds over the Sahara desert, invited talk, 50th anniversaire du Service d'Aéronomie, Paris, France, October 2008.
- Haerendel, G.: Chromospheric evaporation by pressure-driven Alfvén waves, contributed talk, 37th COSPAR Scientific Assembly, Montréal, Canada, July 2008.
- Haerendel, G.: Current transformer and pressure valve: The poleward arcs of the auroral oval during substorms, invited talk, 9th International Conference on Substorms (ICS9), Schloss Seggau, Graz, Austria, May 2008.
- Haerendel, G.: Die Zukunft der bemannten Raumfahrt, public talk, Rotary Club Bremen-Vegesack, Bremen, Germany, June 2008.
- Haerendel, G.: Hintergründe und Geheimnisse des Polarlichts, colloquium, Technische Universität Braunschweig, Germany, June 2008.
- Haerendel, G.: Wonders and secrets of the northern lights, colloquium, Jacobs University Bremen, Germany, April 2008.
- Hasinger, G.: AGN Surveys and Evolution, invited talk, DFG SPP 1177 Summer School „Black Holes and Galaxy Evolution“, Bad Honnef, Germany, August 2008.
- Hasinger, G.: Am Himmel ist die Hölle los! public talk, Vortrag auf der Wissenschaftsmeile zur 850-Jahrfeier, München, Germany, July 2008.
- Hasinger, G.: Am Himmel ist die Hölle los, invited talk, Vortrag beim Salon '97, München, September 2008.
- Hasinger, G.: Auf der Jagd nach der Dunklen Energie, colloquium, Stuttgarter Physikalisches Kolloquium, MPI für Metallforschung, Stuttgart, Germany, February 2008.
- Hasinger, G.: Auf der Jagd nach der Dunklen Energie, public talk, Berliner Planetarium und Sternwarte Wilhelm-Förster, Berlin, Germany, March 2008.
- Hasinger, G.: Auf der Jagd nach der Dunklen Energie: eROSITA, Simbol-X und XEUS, Fundamentale Physik im Weltraum, invited talk, Symposium der Grundlagenforschung im Weltraum, Bayerisches Wirtschaftsministerium München, Germany, June 2008.
- Hasinger, G.: Colours of the COSMOS: The beauty beyond our sky, invited talk, 3rd Interdisciplinary Max Planck PhDnet Meeting: „The Art of Science and the Science of Art“, München, Germany, August 2008.
- Hasinger, G.: Cosmological Evolution of Active Black Holes, colloquium, JET EFDA Seminar, Culham, UK, December 2008.
- Hasinger, G.: Cosmological Evolution of Active Galactic Nuclei, colloquium, Institute for Advanced Studies, Princeton, USA, November 2008.
- Hasinger, G.: Das Schickal des Universums, public talk, Festvortrag bei der Mitgliederversammlung des VCI, Hamburg, Germany, September 2008.

- Hasinger, G.: Das Schicksal des Universums, public talk, Physikalisches Kolloquium, Universität Bayreuth, Germany, November 2008.
- Hasinger, G.: Das Schicksal des Universums, public talk, DLR Schoolab: Göttinger Literaturherbst, Germany, October 2008.
- Hasinger, G.: Das Schicksal des Universums, public talk, Evangelische Stadtakademie München, Germany, April 2008.
- Hasinger, G.: Das Schicksal des Universums, public talk, Forum Wissen, Buchhandlung Habel & Schlapp, Darmstadt, Germany, January 2008.
- Hasinger, G.: Das Schicksal des Universums, public talk, Volkssternwarte Paderborn, Germany, April 2008.
- Hasinger, G.: Der Kalender des Universums, Zeit wahrnehmen, erleben, verstehen, public talk, Evangelische Akademie Tutzing, Germany, December 2008.
- Hasinger, G.: Der Weg zu einem Fusionskraftwerk, public talk, Ringvorlesung Energie 2020, Technische Universität Hamburg-Harburg, Germany, November 2008.
- Hasinger, G.: Destiny and Mysteries of the Universe, Keynote Lecture, invited talk, 1st IMPRS Interdisciplinary Symposium, Max-Planck-Institute of Biochemistry, München, Germany, February 2008.
- Hasinger, G.: Die kosmische Geschichte der Schwarzen Löcher, invited talk, Karl-Schwarzschild-Vortrag, Physikalischer Verein, Festveranstaltung zu Beginn des 185. Vereinsjahres, Frankfurt, Germany, October 2008.
- Hasinger, G.: eROSITA: Auf der Jagd nach der Dunklen Energie, invited talk, Russisches Konsulat Bonn, Germany, June 2008.
- Hasinger, G.: Evolution of Absorption in AGN, contributed talk, COSMOS Meeting, IAP Paris, France, June 2008.
- Hasinger, G.: Evolution of Black Holes in the Universe, colloquium, Ortway Lecture at Budapest University, Hungary, October 2008.
- Hasinger, G.: Exploring the Hot Universe with IXO, invited talk, Science Meeting at MPE, Garching, Germany, September 2008.
- Hasinger, G.: Kosmologie, invited talk, DPG Festveranstaltung zu Ehren des 150. Geburtstages von Max Planck, TU Berlin, Germany, February 2008.
- Hasinger, G.: Panel A: High Energy Astrophysics, invited talk, Particle Astrophysics and Gravitational Waves, Astronet Roadmap Meeting, Liverpool, UK, June 2008.
- Hasinger, G.: Schicksal des Universums, public talk, Der Kosmos im Wandel, Alfried Krupp Wissenschaftskolleg, Greifswald, Germany, December 2008.
- Hasinger, G.: Schwarze Löcher auf Kollisionskurs, public talk, Planetarium Hamburg, Germany, April 2008.
- Hasinger, G.: Sind wir allein? Gibt es Leben im All?, public talk, Streitgespräch in der Reihe „Naturwissenschaften kontrovers“, VHS Gasteig München, Germany, February 2008.
- Hasinger, G.: Sternstunden, public talk, Caravanseraï München, Germany, December 2008.
- Hasinger, G.: Telescopes and Sacred Mountains, invited talk, 400 Years of Astronomical Telescopes, ESTEC, Noordwijk, The Netherlands, October 2008.
- Hasinger, G.: The Dark Side of the Universe, colloquium, SFB „Particles, Strings & the Early Universe“, Hamburg, Germany, January 2008.
- Hasinger, G.: The Fate of the Universe: New Cosmological Perspectives, invited talk, Festvortrag zum 40. Jubiläum der Europäischen Physikalischen Gesellschaft, Mulhouse, France, March 2008.
- Hasinger, G.: The Future of High-Energy Astronomy, invited talk, The Crawford Days 2008: Hot Topics in High-Energy Astrophysics, Stockholm, Schweden, April 2008.
- Hasinger, G.: The Future of X-ray Astronomy – a Mid Career Review, invited talk, Putting Gravity to Work: From Black Holes to Galaxy Clusters, Cambridge, UK, July 2008.
- Hasinger, G.: Von den Sternen zur Fusion, invited talk, Physikalisches Kolloquium, TU Chemnitz, Germany, October 2008.
- Hasinger, G.: XEUS – Physics of the hot evolving Universe, contributed talk, Astronet Roadmap Meeting, Liverpool, UK, June 2008.
- Hasinger, G.: XEUS and eROSITA, The Warm & Hot Universe, invited talk, Columbia University, New York, USA, May 2008.
- Herrmann, S.: CAMEX Readout ASICs for pnCCDs, contributed talk, IEEE Nuclear Science Symposium, Dresden, Germany, October 2008.
- Hicks, E.: New Insight into Galaxy Evolution: What Young Galaxies, Galaxy Mergers, and Supermassive Black Holes Can Tell Us, colloquium, Western Washington University, Bellingham, USA, January 2008.
- Hicks, E.: The Role of Molecular Hydrogen in Obscuring AGN, contributed talk, Gas and Stars in Galaxies - A Multi-Wavelength 3D Perspective, Garching, Germany, June 2008.

- Huber, P.: Growth and melting of 3-D plasma crystals, contributed talk, MPE - DLR Workshop, Garching, Germany, November 2008.
- Huber, P.: Growth and melting of 3-D plasma crystals, contributed talk, PK3+ Symposium, Garching, Germany, November 2008.
- Ihle, S.: Optical Test Results of Fast pnCCDs, contributed talk, IEEE, Dresden, Germany, October 2008.
- Ivlev, A.: Fluids at the kinetic level: Studies with complex plasmas, invited talk, International Symposium on Gaseous and Liquid Plasmas, Sendai, Japan, September 2008.
- Ivlev, A.: Kinetics of shear flows, invited talk, 5th International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Ivlev, A.: New phenomena in liquid complex plasmas, invited talk, 35th EPS Conference on Controlled Fusion and Plasma Physics, Crete, Greece, June 2008.
- Ivlev, A.: Shear flow phenomena in complex plasmas, invited talk, International workshop on Crystallization and Jamming in Soft Matter under Driving, Leiden, The Netherlands, February 2008.
- Kanbach, G.: Optical Polarization of Pulsars, invited talk, European Pulsar Timing Association (EPTA) Meeting, Bad Honnef, Germany, January, 2008.
- Kanbach, G.: OPTIMA: concept for a high-time resolution instrument at the SALT observatory, contributed talk, Göttingen SALT workshop, Göttingen, Germany, May 2008.
- Kanbach, G.: An electronics front-end for detectors used in Hard X-ray and gamma-ray astronomy, invited talk, Workshop on Advanced Gamma-Ray Detectors, Garching, Germany, June 2008.
- Kanbach, G.: High Time Resolution Astronomy: Instrumentation, Observations, and Results of Photo-Polarimetry at sub-second Timescales, colloquium, Sternwarte University Hamburg, Germany, June 2008.
- Kanbach, G.: High time resolution photo-polarimetry with OPTIMA: instrument design, properties, science goals and results, contributed talk, Astronomical Polarimetry: Science from small to large telescopes, La Malbaie, Quebec, Canada, July 2008
- Kanbach, G.: The discovery of a gamma-ray pulsar in the supernova remnant CTA1, contributed talk, Fermi-LAT collaboration meeting, SLAC, Palo Alto, USA, September 2008.
- Kanbach, G.: GRIPS - Gamma-Ray Burst Investigation via Polarimetry and Spectroscopy, contributed talk, Workshop on Science with the new generation of high-energy gamma ray experiments, Padova, Italy, October 2008.
- Kanbach, G.: Interpretation and modelling of the phase resolved optical polarisation of the Crab pulsar, contributed talk, Polarimetry days in Rome: Crab status, theory and prospects, Rome, Italy, October 2008.
- Kanbach, G.: GRIPS –Gamma-Ray Burst Investigation via Polarimetry and Spectroscopy, contributed talk, Polarimetry days in Rome: Crab status, theory and prospects, Rome, Italy, October 2008.
- Kanbach, G.: A new gamma-ray pulsar in the supernova remnant CTA1, contributed talk, Polarimetry days in Rome: Crab status, theory and prospects, Rome, Italy, October 2008.
- Kanbach, G.: Fast pn detectors for Astrophysics, invited talk, OPTICON Board Meeting, Porto, Portugal, November 2008.
- Khochfar, S.: Dark Matter Driven Galaxy Formation, colloquium, UNC Chapel Hill, USA, December 2008.
- Khochfar, S.: Do Galaxies care where they live?, colloquium, Imperial College London, UK, October 2008.
- Khochfar, S.: Merger history of galaxies in the context of disk+bulge formation, invited talk, Galaxy Evolution: Emerging Insights and Future Challenges, Austin, USA, November 2008.
- Khochfar, S.: The High-z Universe: Probing Galaxy Formation, invited talk, JENAM 2008, Vienna, Austria, September 2008.
- Khochfar, S.: The star forming universe at  $z=2$ , invited talk, Extragalactic Workshop, Birmingham, UK, June 2008.
- Khrapak, S.A.: Collisional effects in complex (dusty) plasmas, invited talk, 5th International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Khrapak, S.A.: Charge of an individual grain in the bulk of gas discharges, contributed talk, Plasmakristall Symposium, Garching, Germany, November 2008.
- Khrapak, S.A.: Electric potential around a small object in plasmas: Effect of plasma absorption and ion-neutral collisions, contributed talk, 35th EPS Plasma Physics Conference, Crete, Greece, June 2008.
- Khrapak, S.A.: Ion drag force in collisional plasmas, invited talk, 35th IEEE International Conference on Plasma Science, Karlsruhe, Germany, June 2008.
- Khrapak, S.A.: Latest theoretical results on interparticle interactions in complex plasmas, contributed talk, International Topical Team Meeting on “Critical point in complex plasmas”, Ringberg, Germany, July 2008.
- Klecker, B.: Acceleration and transport modelling of SEP charge states in Impulsive Events: Progress Report, contributed talk, ACE Science Working Team Meeting, Berkeley, USA, February 2008.

- Kleckner, B.: Corotating Interaction Regions: Observations of H<sup>+</sup>, He<sup>2+</sup>, and He<sup>+</sup> with PLASTIC onboard STEREO, contributed talk, STEREO-Ulysses-SOHO-ACE Workshop, Kiel, Germany, October 2008.
- Kleckner, B.: Das Reich der Sonne - unsere kosmische Heimat, public talk, Ingolstädter Astronomietage, Ingolstadt, Germany, October 2008.
- Kleckner, B.: Das Reich der Sonne: unsere kosmische Heimat, invited talk, Seminar der Hanns-Seidel Stiftung "Heimatplanet Erde - eine Reise durch das Sonnensystem", Wildbad Kreuth, Germany, February 2008.
- Kleckner, B.: Das Weltraumwetter: Sonne – Erde Wechselwirkungen, public talk, Planetarium Nürnberg, Germany, January 2008.
- Kleckner, B.: Die STEREO Mission: Übersicht und erste Ergebnisse, colloquium, Christian-Albrechts Universität, Kiel, Germany, October 2008.
- Kleckner, B.: Energetic Particles in the Heliosphere, invited talk, 21st European Cosmic Ray Symposium, Kosice, Slovakia, September 2008.
- Kleckner, B.: Interplanetary transport of low energy ions: New results for upstream ions and pickup ions, contributed talk, ISSI Team Meeting on 'Transport of Energetic Particles in the Inner Heliosphere', Bern, Switzerland, September 2008.
- Kleckner, B.: Pickup Helium in the Inner Heliosphere, contributed talk, STEREO/PLASTIC/SEPT and SOHO/CELIAS Workshop, Ascona, Switzerland, March 2008.
- Kleckner, B.: STEREO Observations of CIR-accelerated particle events during 2007, contributed talk, STEREO-ACE-WIND-Ulysses Workshop, Berkeley, Ca, USA, February 2008.
- Kleckner, B.: The Plasma and Suprathermal Ion Composition Investigation onboard STEREO: Sensor Overview and Research Topics, contributed talk, STEREO-Ulysses-SOHO-ACE Workshop, Kiel, Germany, October 2008.
- Komossa, S.: Active Galactic Nuclei - intrinsic properties and cosmic evolution, invited talk, Timescales of High-energy Astrophysical Sources, Kathmandu, Nepal, October 2008.
- Komossa, S.: Electromagnetic Signatures of Massive Binary Black Hole Mergers, invited talk, TEXAS Symposium on Relativistic Astrophysics, Vancouver, Canada, December 2008.
- Komossa, S.: High accretion rates, tidal disruption flares and recoils - recent results on SMBHs, colloquium, Peking University, Beijing, China, April 2008.
- Komossa, S.: Kicks and Superkicks: Observations of recoiling black holes, colloquium, Universität Jena, Germany, November 2008.
- Komossa, S.: Massereichen Schwarzen Löchern auf der Spur, invited talk, Studium Generale, Tübingen, Germany, January 2008.
- Komossa, S.: Narrow-line Seyfert 1 galaxies - an overview, invited talk, High Energy Laboratory, Beijing, China, April 2008.
- Komossa, S.: Narrow-line Seyfert 1 galaxies on the M-sigma plane, outflows, and light echoes, invited talk, Aspen Centre for Physics, Aspen, USA, July 2008.
- Komossa, S.: Pairs of AGN, Binary Black Holes and Recoils, invited talk, Merging Black Holes in Galaxies: Galaxy Evolution, AGN, and Gravitational Waves, Blue Mountains, Australia, June 2008.
- Komossa, S.: Schwarze Löcher auf Kollisionskurs, invited talk, Kuratorium, Garching, Germany, March 2008.
- Komossa, S.: Supermassive Binary Black Holes and Gravitational Wave Recoil: Observational Evidence and Astrophysical Implications, colloquium, MPI für Gravitationsphysik, Potsdam, Germany, September 2008.
- Komossa, S.: Supermassive Black Holes in Galaxies, invited talk, National Astronomical Observatories (NAOC), Beijing, China, April 2008.
- Komossa, S.: Supermassive black holes: scaling relations, outflows, and stellar tidal disruptions, invited talk, Tsinghua University, Beijing, China, April 2008.
- Komossa, S.: Tidal disruption flares and recoiling supermassive black holes, colloquium, Max Planck Institut fuer Astrophysik, High Energy Seminar, Garching, Germany, October 2008.
- Kompaneets, R.: Screening of a charged dust particle in the plasma-wall transition layer, contributed talk, 15th Gaseous Electronics Meeting, Murramarang, Australia, February 2008.
- Konopka, U.: Active particle manipulation methods for transport and removal in fine particle plasmas, invited talk, 9th Workshop on Fine Particle Plasmas, Toki, Japan, December 2008.
- Konopka, U.: Komplexe Plasmen - Vom Labor in den Weltraum, public talk, Heidelberger Life-Science Lab, Heidelberg, Germany, February 2008.
- Konopka, U.: Systematic Transport and Manipulation of Fine Particles by Low Frequency, Travelling Plasma Modulations, invited talk, The 3rd International School of Advanced Plasma Technology, Varenna, Italy, July 2008.

- Krause, M.G.H.: Extragalactic Faraday Rotation with LOFAR, contributed talk, LOFAR MKSP meeting, Dwingeloo, The Netherlands, June 2008.
- Krause, M.G.H.: Jets and Multiphase Turbulence, contributed talk, The Central Kiloparsec: Active Galactic Nuclei and their Hosts, Ierapetra, Crete, Greece, June 2008.
- Krause, M.G.H.: Magnetic Fields in Galaxy Clusters: Towards the Square Kilometre Array, colloquium, Universitätssternwarte, Munich, Germany, June 2008.
- Krause, M.G.H.: Magnetism in Galaxy Clusters and the SKA, invited talk, MPI für Radioastronomie, Bonn, Germany, May 2008.
- Krause, M.G.H.: Models of Magnetic fields in Clusters of Galaxies, contributed talk, MCCT SKADS Workshop: Deep Field Imaging with the SKA, Cambridge, UK, August 2008.
- Krause, M.G.H.: Multiphase Turbulence & Jet-related Emission Line Regions, invited talk, Zentrum für Astronomie Heidelberg, Germany, October 2008.
- Krause, M.G.H.: Physics and Fate of Jet-related Emission Line Regions, invited talk, The Interface between Galaxy Formation and AGNs, Vulcano, Italy, May 2008.
- Krause, M.G.H.: SKA and the Cosmological Evolution of Cluster Magnetic Fields, contributed talk, Astronomy in the Next Decade: Synergies with the Square Kilometre Array, Bonn, Germany, April 2008.
- Kretschmer, M.: FAST PK-3 PLUS Parabolic Flight Campaign, invited talk, Plasmakristall-Symposium "10 Years Russian & German Collaboration", Garching, Germany, November 2008.
- Kretschmer, M.: Self-Organization in Complex Plasmas - Lane Formation and Beyond, invited talk, 35th IEEE International Conference on Plasma Science, Karlsruhe, Germany, June 2008.
- Kruehler, T.: Recent News from GRB Observations, contributed talk, Excellence Cluster Science Week, Garching, Germany, December 2008.
- Kruehler, T.: The detailed early light curve of the optical/NIR afterglow of XRF 071031, contributed talk, Gamma-Ray Burst Symposium 2008, Huntsville, USA, October 2008.
- Lutz, D.: A spitzer view of high-z submillimeter galaxies and QSOs, invited talk, Challenges in IR extragalactic astrophysics, Hersonissos, Greece, September 2008.
- Lutz, D.: Cosmological Surveys with Herschel/PACS, invited talk, AEGIS Meeting, London, UK, May 2008.
- Lutz, D.: Herschel and the interplay of AGN and star formation, contributed talk, AGN: The interplay between supermassive black holes, star formation and galaxy evolution, Aspen, USA, July 2008.
- Lutz, D.: PEP Data Processing, contributed talk, Herschel Key Programme Workshop, Noordwijk, The Netherlands, July 2008.
- Lutz, D.: Quantifying star formation in known AGN populations, contributed talk, AGN: The interplay between supermassive black holes, star formation and galaxy evolution, Aspen, USA, July 2008.
- Marghitsu, O.: Cluster observations of concentrated load and generator regions in the plasma sheet, contributed talk, Joint Cluster-THEMIS workshop, Durham, USA, September 2008.
- Marghitsu, O.: Multi-point observations of energy conversion and transfer in the auroral magnetosphere, colloquium, Southwest Research Institute, San Antonio, USA, October 2008.
- Marghitsu, O.: Multi-point observations of energy conversion: plasma sheet Cluster events, contributed talk, 15th Cluster workshop, Tenerife, Spain, March 2008.
- Meidinger, N.: eROSITA camera design and first performance measurements with CCDs, invited talk, SPIE Astronomical Instrumentation Conference, Marseille, France, June 2008.
- Meidinger, N.: eROSITA instrument performance summary, colloquium, eROSITA Consortium meeting, Bamberg, Germany, October 2008.
- Meidinger, N.: Large format pnCCDs as imaging detectors for X-ray free electron lasers, colloquium, Summer school on time-resolved x-ray processes in atoms, molecules and solids, Dresden, Germany, August 2008.
- Merloni, A.: A synthetic view of AGN evolution and supermassive black holes growth, colloquium, AIP, Potsdam, Germany, November 2008.
- Merloni, A.: A synthetic view of AGN evolution, colloquium, INAF-Osservatorio Astronomico di Bologna, Italy, September 2008.
- Merloni, A.: Cosmological growth of Supermassive Black Holes: a synthesis model for accretion and feedback, colloquium, Joint Astronomy Colloquium, ESO, Munich, Germany, January 2008.
- Merloni, A.: Cosmology and Black Holes: (towards) the first structures, invited talk, Astronomy in the next decade: synergies with the SKA, Bonn, Germany, April 2008.
- Merloni, A.: Cosmological evolution of supermassive black holes and AGN: a synthesis model for accretion and

- feedback, invited talk, The inner Kpc, Ierapetra, Crete, Greece, June 2008.
- Merloni, A.: Cosmological evolution of supermassive black holes, contributed talk, COSMOS meeting, IAP, Paris, France, June 2008.
- Merloni, A.: Cosmological growth of Supermassive Black Holes, colloquium, University of Barcelona, Barcelona, Spain, November 2008.
- Merloni, A.: Cosmological growth of Supermassive Black Holes: a synthesis model for accretion and feedback, colloquium, INAF-Osservatorio Astronomico di Roma, Rome, Italy, March 2008.
- Merloni, A.: Studying the Cosmological evolution of Supermassive Black Holes with LOFAR, contributed talk, Astrophysics with E-LOFAR, Hamburg, Germany, September 2008.
- Merloni, A.: Testing Black Holes Astrophysics across the mass spectrum, contributed talk, Putting Gravity to Work, Institute of Astronomy, Cambridge, UK, July 2008.
- Mokler, F.: Charge-triggered dust growth in protoplanetary disks, colloquium, School of Physics and Astronomy, University of St Andrews, UK, February 2008.
- Mokler, F.: Planet formation onboard the International Space Station, colloquium, Royal Observatory of Edinburgh, UK, March 2008.
- Mokler, F.: Planetenentstehung auf der Raumstation, public talk, Wettbewerb: Verständliche Wissenschaft, GKSS, Geesthacht, Germany, October 2008.
- Monetti, R.: Analysing Time Series using Symbolic Representations, contributed talk, CHAOS 2008, Chaotic Modeling and Simulation International Conference, Crete, Greece, June 2008.
- Monetti, R.: Characterizing Synchronization in Time Series using Information Measures Extracted from Symbolic Representations, invited talk, INIFTA, Universidad Nacional de La Plata, Argentina, December 2008.
- Monetti, R.: Trabecular bone architecture of the calcaneus measured using nonlinear structure parameters: Comparison of High resolution MR imaging at 3.0 and 1.5 Tesla using noise simulations, invited talk, Magnetic Resonance Science Center, UCSF, San Francisco, USA, February 2008.
- Morfill, G.: Complex Plasmas - A new State of Soft Matter, invited talk, Matter under Driving - Colloidal Suspensions, Granular Media, Foams, and Complex Plasmas, Leiden, The Netherlands, February 2008.
- Morfill, G.: Wave - Particle Duality: Particle Control and Transport, invited talk, MIMAS Workshop, Karlsruhe, Germany, March 2008.
- Morfill, G.: Complex Plasma Research under Microgravity, invited talk, PSAG, Noordwijk, The Netherlands, April 2008.
- Morfill, G.: Complex Plasmas - New Developments, invited talk, 5th International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, Spain, May 2008.
- Morfill, G.: Grundlagenforschung im Weltraum, invited talk, DLR symposium, Dresden, Germany, June 2008.
- Morfill, G.: Flüssige und kristalline Plasmen, colloquium, Universität Greifswald, Greifswald, Germany, Juli 2008.
- Mühlegger, M.: 100000 Clusters of Galaxies - eROSITA image simulations, contributed talk, eROSITA Group Meeting, Bamberg, Germany, October 2008.
- Müller, T.G.: Asteroids as calibrators for Akari, colloquium, LIRA Colloquium, ISAS, Tokyo, Japan, March 2008.
- Müller, T.G.: Asteroids as far-IR/Submm/mm calibrators, colloquium, ALMA Regional Centre, Garching, Germany, November 2008.
- Müller, T.G.: Asteroids as FIR/Submm/MM Calibrators, invited talk, Thermal Models for Planetary Science Workshop, Beaulieu sur Mer, France, September 2008.
- Müller, T.G.: Sizes, Shapes and Size Distributions of Asteroids and Comets, invited talk, Future Ground-Based Solar System Research: Synergies with Space Probes and Space Telescope, Livorno, Italy, September 2008.
- Müller, T.G.: The Asteroid Preparatory Programme for Herschel, AKARI and ALMA, invited talk, Herschel Space Observatory Calibration Workshop #2, Madrid, Spain, February 2008.
- Müller, T.G.: Was gibt es Neues im Sonnensystem?, public talk, Lions-Club Bad Königshofen, Bad Königshofen, Germany, February 2008.
- Nosenko, V.: Dislocation dynamics in 2D plasma crystals, invited talk, International workshop on Crystallization and Jamming in Soft Matter under Driving, Leiden, The Netherlands, February 2008.
- Nosenko, V.: Dislocation nucleation and dynamics observed in a plasma crystal, invited talk, 5th International Conference on Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Nosenko, V.: Dislocation nucleation and motion observed in a 2D Yukawa triangular lattice, contributed talk, March Meeting of American Physical Society, New Orleans, USA, March 2008.

- Nosenko, V.: Dynamics of Defects in a Two-Dimensional Plasma Crystal, contributed talk, International Congress on Plasma Physics, Fukuoka, Japan, September 2008.
- Nosenko, V.: Dynamics of defects in a two-dimensional plasma crystal, colloquium, Christian-Albrechts-Universität Kiel, Germany, December 2008.
- Nosenko, V.: Manipulation of dust particles in complex plasmas by electric field, contributed talk, Meeting of Division of Plasma Physics of American Physical Society, Dallas, USA, November 2008.
- Nosenko, V.: Monolayer complex plasma experiments, invited talk, 35th EPS Conference on Controlled Fusion and Plasma Physics, Hersonissos, Greece, June 2008.
- Nowak, N.: Weighing supermassive black holes, invited talk, Workshop on AGN and Related Fundamental Physics, Jerisjaervi, Finland, April 2008.
- Ott, T.: Das Schwarze Loch im Zentrum unserer Milchstraße, public talk, Berufsbildungszentrum, Nürnberg, Germany, April 2008.
- Phleps, S.: LSS and BAOs with Pan-STARRS, invited talk, 3rd Biennial Leopoldina Conference on Dark Energy, Munich, Germany, October 2008.
- Pierini, D.: On dust extinction in galaxies, near and far, colloquium, MPA, Garching, Germany, March 2008.
- Pierini, D.: Pan-STARRS1 clusters/groups and the MPE X-ray cluster group, contributed talk, Pan-STARRS1 Science Consortium Meeting, Heidelberg, Germany, April 2008.
- Poglitsch, A.: Der kosmische Infrarot-Hintergrund - Was steckt dahinter?, invited talk, Grundlagenforschung im Weltraum: Deutschlands Herausforderung der nächsten Dekaden, Munich, Germany, June 2008.
- Poglitsch, A.: Herschel/PACS and its Promise, colloquium, ETH, Institute of Astronomy, Zurich, Switzerland, April 2008.
- Poglitsch, A.: The Herschel Photodetector Array Camera & Spectrometer (PACS), contributed talk, SPIE Astronomical Instrumentation, Marseille, France, June 2008.
- Porro, M.: DEPFET Applications and 3D Integration, contributed talk, Vertical Integration and High Density Interconnection Technologies for HEP and Imaging Workshop, Ringberg Castle, Germany, April 2008.
- Porro, M.: Large Format X-Ray Imager with Mega-Frame Readout Capability for XFEL, based on the DEPFET Active Pixel Sensor, contributed talk, IEEE Nuclear Science Symposium, Dresden, Germany, October 2008.
- Porro, M.: Performance of ASTEROID: a 64 Channel ASIC for Source Follower Readout of DEPFET Matrices for X-Ray Astronomy, contributed, IEEE Nuclear Science Symposium, Dresden, Germany, October 2008.
- Pratt, G.W.: Astrophysics of galaxy clusters, colloquium, University College Dublin, Ireland, March 2008.
- Pratt, G.W.: eROSITA, contributed talk, An XXL extragalactic survey: prospects for the XMM next decade, Paris, France, April 2008.
- Pratt, G.W.: Evolution of the dark matter distribution on galaxy cluster scales, contributed talk, Exploring the Hot Universe with IXO, Munich, Germany, September 2008.
- Pratt, G.W.: Probing structure formation physics with galaxy clusters, colloquium, MPA Garching, Munich, Germany, May 2008.
- Pratt, G.W.: Properties of the intracluster medium in a representative sample, contributed talk, X-ray Universe 2008, Granada, Spain, May 2008.
- Pratt, G.W.: Structure et dynamique des amas de galaxies en rayons X, colloquium, CESR, Toulouse, France, February 2008.
- Pratt, G.W.: Weighing clusters: the X-ray view, invited talk, Cluster weighing workshop, Munich, Germany, July 2008.
- Predehl, P.: Das Dunkle Universum, public talk, FH Rosenheim, Rosenheim, Germany, October 2008.
- Predehl, P.: Das Dunkle Universum, public talk, Naturama Aarau, Aarau, Switzerland, August 2008.
- Predehl, P.: eROSITA - Instrumentation for X-ray Astronomy, colloquium, Excellence Cluster - Ringvorlesung „Methoden u. Instr. in Kern-, Teilchen- und Astrophysik“, Garching, Germany, June 2008.
- Predehl, P.: eROSITA, contributed talk, DGLR, Darmstadt, Germany, September 2008.
- Predehl, P.: eROSITA, contributed talk, SPIE, Telescopes and Instrumentation II, Ultraviolet to Gamma Rays, Marseille, France, June 2008.
- Predehl, P.: eROSITA, invited talk, DPG Tagung, Freiburg, Germany, March.
- Predehl, P.: eROSITA, invited talk, Leopoldina Conference on Dark Energy, Munich, Germany, November 2008.
- Predehl, P.: Neues vom Röntgenhimmel, public talk, Verein Amateurastronomen Max Valier, Bolzano, Italy, May 2008.
- Predehl, P.: Neues vom Röntgenhimmel, public talk, VSM, Munich, Germany, November 2008.

- Pustynnik, M.: Effect of High-voltage Nanosecond Pulses on Dust Particles Levitating in a Plasma, contributed talk, International Congress on Plasma Physics, Fukuoka, Japan, September 2008.
- Pustynnik, M.: Effect of high-voltage nanosecond pulses on the dust particles in complex plasmas, contributed talk, International Conference on Plasma Physics, Fukuoka, Japan, September 2008.
- Raeth, C.: Chaos, Kosmos, Knochen: Charakterisierung komplexer Strukturen in Physik und Medizin, public talk, Schulvortrag in Rahmen der MPG Hauptversammlung 2008, Meissen, Germany, June 2008.
- Raeth, C.: Chaos, Kosmos, Knochen: Charakterisierung komplexer Strukturen in Physik und Medizin, public talk, Schulvortrag in Rahmen der MPG Hauptversammlung 2008, Dresden, Germany, June 2008.
- Raeth, C.: Chaos, Kosmos, Knochen: Charakterisierung komplexer Strukturen in Physik und Medizin, public talk, Schulvortrag in Rahmen der MPG Hauptversammlung 2008, Riesa, Germany, June 2008.
- Raeth, C.: Constrained Randomisation: Towards model-independent tests for non-Gaussianity in the CMB, colloquium, Caltech/JPL, Pasadena, USA, February 2008.
- Raeth, C.: Constrained Randomisation: Towards model-independent tests for non-Gaussianity in the CMB, contributed talk, Cosmic Microwave Radiation Conference, Aspen, USA, February 2008.
- Raeth, C.: Dust Capture Experiments in HT-7, colloquium, MPE-DLR Workshop, Garching, Germany, November 2008.
- Raeth, C.: From galaxies to bones: Quantitative characterisation of complex structures using nonlinear methods, invited talk, Scripps Institute, San Diego, USA, February 2008.
- Raeth, C.: On the sensitivity of Minkowski functionals, wavelets and scaling indices to higher order correlations in HRMR images of the distal radius, colloquium, UCSF, San Francisco, USA, February 2008.
- Raeth, C.: Surrogates with random Fourier Phases, contributed talk, CHAOS2008: Chaotic Modeling and Simulation International Conference, Chania, Greece, June 2008.
- Raeth, C.: Visualisation and local assessment of the trabecular bone structure using micro CT images, colloquium, TU München, Germany, July 2008.
- Schartmann, M.: Hydrodynamic studies of turbulent AGN tori, contributed talk, JENAM / AG-Tagung: New Challenges to European Astronomy, Vienna, Austria, September 2008.
- Schartmann, M.: Turbulent AGN tori, contributed talk, The Central Kiloparsec: Active Galactic Nuclei and their Hosts, Ierapetra, Crete, Greece, June 2008.
- Scholer, M.: Backstreaming ions and ULF waves at Earth's bow shock: Observations and Simulations, invited talk, Geophysical Environment Modeling Workshop, Midway, USA, June 2008.
- Scholer, M.: Cluster observations of particles and magnetic field power as a function of distance from the bow shock during diffuse upstream ion events, invited talk, Geophysical Environment Modeling Workshop, Midway, USA, June 2008.
- Scholer, M.: Collisionless nonrelativistic shocks: Overview, invited talk, Workshop on Kinetic Modeling of Astrophysical Plasmas, Krakow, Poland, October 2008.
- Scholer, M.: Particles and fields at collisionless shocks: Simulation results versus Cluster bow shock observations, contributed talk, 15th Cluster Workshop, Tenerife, Spain, March 2008.
- Scholer, M.: Variability of high-Mach number quasi-perpendicular shocks, invited talk, ISSI Workshop on High Mach Number Shocks, Bern, Switzerland, April 2008.
- Schwabe, M.: Warum denn gerade Physik?, public talk, Girls' Day, MPE, Garching, Germany, April 2008.
- Schwabe, M.: Bubbles, blobs, and surface cusps in fluid complex plasmas, contributed talk, MPE - DLR Workshop, Garching, Germany, November 2008.
- Schwabe, M.: Bubbles, blobs, and surface cusps in fluid complex plasmas, contributed talk, PK3+ Symposium, Garching, Germany, November 2008.
- Schwabe, M.: Dust Bubbles, contributed talk, Topical Team and Complex Plasma Meeting, Ringberg, Germany, July 2008.
- Segneri, G.: Measurement of the Current Related Damage Rate at  $-50^\circ$  BOC and Consequences on Macropixel Detector Operation in Space Experiments, contributed talk, IEEE Conference, Dresden, Germany, October 2008.
- Segneri, G.: Radiation Damage during Space mission: the BepiColombo example, invited talk, Maier-Leibnitz Laboratorium, Garching, Germany, May 2008.
- Shimizu, S.: Carbon fine particles growth in CH<sub>4</sub>/H<sub>2</sub> rf plasmas, invited talk, 9th Workshop on Fine Particle Plasmas, Toki, Japan, December 2008.

- Shimizu, S.: Diamond fine particles growth on seed particles in the rf CH<sub>4</sub>/H<sub>2</sub> plasma chamber equipped with a hot filament, contributed talk, 3rd International School of Advanced Plasma Technology, Varenna, Italy, July 2008.
- Shimizu, T.: Application of Atmospheric Plasma to Disinfection of Chronic Wounds, invited talk, 3rd International School of Advanced Plasma Technology, Varenna, Italy, July 2008.
- Shimizu, T.: Plasma Medicine, application of plasma for wound sterilization, invited talk, Workshop of atmospheric plasma applications, Institute of Fluid Science, Tohoku University, Sendai, Japan, March 2008.
- Stiele, H.: Soft X-ray sources in the XMM-Newton survey of M 31, contributed talk, The X-ray Universe 2008, Granada, Spain, May 2008.
- Strüder, L.: CFEL activities (MPG-ASG) in Instrumentation, contributed talk, CFEL workshop, Hamburg, January 2008.
- Strüder, L.: Detectors for the experiments at FLASH, LCLS, SCSS and XFEL – the fine art of high speed X-ray imaging, invited talk, Stanford University, SLAC, Menlo Park, USA, August 2008.
- Strüder, L.: Detectors for the experiments at FLASH, LCLS, SCSS and XFEL – the fine art of high speed X-ray imaging, invited talk, Monash University, Melbourne, Australia, September 2008.
- Strüder, L.: Detectors for the experiments at FLASH, LCLS, SCSS and XFEL – the fine art of high speed X-ray imaging, invited talk, “Coherent X-ray Scattering” Conference, Melbourne, Australia, September 2008.
- Strüder, L.: eROSITA and IXO – two major X-ray missions in the next decade, invited talk, IEEE NSS, Dresden, Germany, October 2008.
- Strüder, L.: High Resolution, High Speed Spectroscopic Imagers, colloquium, RSSD, ESTEC, Noordwijk, The Netherlands, November 2008.
- Strüder, L.: High Speed Imaging Detectors – From the Infrared to Gamma Rays, contributed talk, Workshop of the Excellence Cluster “Munich Center of applied Photonics, MAP”, Andechs, Germany, June 2008.
- Strüder, L.: High speed simultaneous X-ray and electron imaging and spectroscopy at synchrotrons and TEMs, invited talk, European Microscopy Conference EMC, Aachen, Germany, September 2008.
- Strüder, L.: High speed spectroscopic imaging for electrons and X-rays, invited talk, “Microscopy and Microanalysis” conference, Albuquerque, USA, August 2008.
- Strüder, L.: High Speed Spectroscopic Imaging, invited talk, Heraeus-workshop: Matter in Coherent Light, Bad Honnef, Germany, March 2008.
- Strüder, L.: IXOs field of view, contributed talk, IXO workshop, MPE, Garching, Germany, September 2008.
- Strüder, L.: pnCCD basics, invited talk, Series of lectures (4), Siegen, Germany, February 2008.
- Strüder, L.: pnCCDs and DEPMOS Active Pixel Sensors for X-ray Imaging and spectroscopy for eROSITA, BepiColombo, Simbol-X, XEUS-WFI, Xeus-HTRS, ExoMars, AO, electrons in TEMs, at FLASH, LCLS, XFEL, HICAM and other opportunities, invited talk, Agade Workshop, Garching, Germany, March 2008.
- Strüder, L.: pnCCDs for High Speed X-ray imaging at experiments at FLASH, LCLS and XFEL, contributed talk, NDIP conference, Aix-les-Bains, France, June 2008.
- Strüder, L.: Progress with silicon detector systems for spectroscopic imaging close to room temperature, invited talk, IEEE RTSD, Dresden, Germany, October 2008.
- Strüder, L.: Progress with the XEUS WFI, contributed talk, SPIE conference, Marseille, France, June 2008.
- Strüder, L.: Siliziumsensoren für die Röntgenastronomie – Transferprojekte aus dem MPI-HLL, contributed talk, Kuratoriumssitzung des MPE, Garching, Germany, March 2008.
- Strüder, L.: Single photon imaging with Avalanche multiplying readout, contributed talk, SPIE conference, Marseille, France, June 2008.
- Strüder, L.: Sub-electron noise performance in high speed optical detector systems, contributed talk, SPIE conference Marseille, France, June 2008.
- Strüder, L.: Technical Readiness of the XEUS Wide Field Imager, contributed talk, IWG ESTEC, Noordwijk, The Netherlands, February 2008.
- Strüder, L.: The CFEL-ASG end station for high resolution X-ray imaging at LCLS (and other light sources), invited talk, LCLS-SSRL workshop, Menlo Park, USA, October 2008.
- Strüder, L.: The IXO wide field imager, invited talk, Goddard Space Flight Center, Greenbelt, USA, August 2008.
- Strüder, L.: The MPI-HLL Sensor developments, invited talk, IMS-Chips, Stuttgart, Germany, February 2008.
- Strüder, L.: What Silicon can do for XEUS, invited talk, XEUS Workshop 2008 ESTEC, Noordwijk, The Netherlands, March 2008.

- Tacconi, L.J.: Cold Gas at High-z and What it Tells Us About Massive Galaxy Evolution, colloquium, MPA Cosmology Seminar, Garching, Germany, July 2008.
- Tacconi, L.J.: Cold Gas at High-z: (Sub)arcsecond Imaging of SMGs and New Observations of  $z=1-2$  Star Forming Galaxies, invited talk, Galaxies in Real Life and Simulations, Lorentz Center, Leiden, The Netherlands, September 2008.
- Tacconi, L.J.: Cold Gas at High-z: First(Sub)arcsecond Imaging of SMGs and New Observations of  $z=1-2$  Star Forming Galaxies, invited talk, Santa Cruz Galaxy Workshop 2008, UC Santa Cruz, USA, August 2008.
- Tacconi, L.J.: Discussion on (3D observations of) AGN and high-z galaxies, invited talk, Gas and Stars in Galaxies - A Multi-Wavelength 3D Perspective, ESO, Garching, Germany, June 2008.
- Tacconi, L.J.: Dynamical Evolution of Luminous Galaxies at High-z, invited talk, Starburst-AGN Connection, Shanghai Normal University, China, October 2008.
- Tacconi, L.J.: Dynamical Properties of Submm Galaxies, colloquium, UC Berkeley Cosmology Seminar, Berkeley, USA, February 2008.
- Tacconi, L.J.: Spatially Resolved Galaxy Dynamics at  $z\sim 2-3$ : New Insights into Galaxy Evolution, colloquium, Astronomy Department Colloquium, Amherst, USA, February 2008.
- Tacconi, L.J.: The Dynamical Evolution of High-Redshift Mergers, colloquium, Munich Joint Astronomy Colloquium, Garching, Germany, March 2008.
- Tacconi, L.J.: The Dynamics and Evolution of Galaxy Mergers: Properties of the 1 Jy ULIRG Sample, invited talk, ESO Large Program Workshop, Garching, Germany, October 2008.
- Thoma, M.H.: Relativistic and Strongly-Coupled Plasmas - Extreme Matter in Plasma-, Astro-, and Nuclear Physics, invited talk, Extreme Matter Institute EMMI Kick-off Meeting and Symposium, Darmstadt, Germany, July 2008.
- Thoma, M.H.: „Soft Matter“ unter Schwerelosigkeit, invited talk, Grundlagenforschung im Weltraum, Munich, Germany, June 2008.
- Thoma, M.H.: Complex Plasmas under Microgravity, invited talk, Crystallization and Jamming in Soft Matter under Driving - Colloidal Suspensions, Granular Media, Foams, and Complex Plasmas, Leiden, The Netherlands, February 2008.
- Thoma, M.H.: Instabilities, Convection, and Turbulence in Complex Plasmas, invited talk, Workshop on Turbulence and Hydrodynamical Instabilities, Garching, Germany, November 2008.
- Thoma, M.H.: Relativistic and Strongly-Coupled Plasmas - Extreme Matter in Nuclear, Astro- and Plasmaphysics, invited talk, TU Darmstadt, Germany, July 2008.
- Thoma, M.H.: Strongly Coupled Plasmas and the Plasma Crystal - Plasma Physics under Microgravity, colloquium, Universität Graz, Austria, February 2008.
- Thoma, M.H.: Ultrarelativistic Electron-Positron Plasma, invited talk, ELI Workshop and School on „Fundamental Physics with Ultra-High Fields“, Frauenchiemsee, Germany, September 2008.
- Thoma, M.H.: What can we learn from electromagnetic plasmas about the quark-gluon plasma?, invited talk, International Conference on Strongly Coupled Coulomb Systems, Camerino, Italy, July 2008.
- Thomas, H.M.: Complex Plasmas under Microgravity Conditions, contributed talk, DLR & MPE Workshop, Garching, Germany, November 2008.
- Thomas, H.M.: Complex Plasmas, invited talk, ELIPS Workshop, Sasbachwalden, Germany, February 2008.
- Thomas, H.M.: Electrorheology in Complex Plasmas, contributed talk, Workshop on Crystallization and Jamming in Soft Matter under Driving, Leiden, The Netherlands, February 2008.
- Thomas, H.M.: Fine Particle Plasmas under Microgravity Conditions on the ISS, invited talk, 9th Workshop on Fine Particle Plasmas, Toki, Japan, December 2008.
- Thomas, H.M.: New Direction of Research in Complex Plasmas on the International Space Station, invited talk, 5th International Conference on the Physics of Dusty Plasmas, Ponta Delgada, Portugal, May 2008.
- Thomas, H.M.: Next Experiments with PK-3 Plus on the International Space Station, contributed talk, Topical Team and Complex Plasma Meeting, Schloss Ringberg, Germany, July 2008.
- Thomas, H.M.: Plasma-Application Oriented Research Supported by Microgravity, invited talk, Space for Innovation – Industry Forum for Material Research and Microgravity, Düsseldorf, Germany, May 2008.
- Treis, J.: Pixel detectors for x-ray Imaging Spectroscopy in Space, invited talk, Fermilab Pixel 2008 International Workshop, Batavia, USA, September 2008.
- Treis, J.: Silicon Detector Applications in Medicine, Biology, Safety and Astrophysics part 2, contributed talk, IEEE Nuclear Science Symposium, Dresden, Germany, October 2008.

- Trippe, S.: High Precision Astrometry with MICADO, invited talk, ESO, Garching, Germany, December 2008.
- Trümper, J.: Röntgensatelliten berichten von sterbenden Sternen, public talk, Görlitz, Germany, March 2008.
- Trümper, J.: Röntgensatelliten berichten von sterbenden Sternen, public talk, Sohland, Germany, March 2008.
- Trümper, J.: Röntgensatelliten berichten von sterbenden Sternen, public talk, Bautzen, Germany, March 2008.
- Trümper, J.: Satellitengestützte Astronomie, public talk, Zwiesel, Germany, April 2008.
- Trümper, J.: The Physical Properties of Neutron Stars, colloquium, Breslau, Germany, April 2008.
- Trümper, J.: Endstadien der Sternentwicklung, public talk, Flensburg, Germany, May 2008.
- Trümper, J.: Die Entstehung der neuen Astronomie nach dem 2. Weltkrieg, public talk, Nordenham, Germany, September 2008.
- Trümper, J.: Das Rätsel der Dunklen Materie, public talk, Harburg, Germany, September 2008.
- Trümper, J.: The Extreme Physical Properties of Neutron Stars, colloquium, Physics Department Heraklion, Crete, Greece, November 2008.
- Trümper, J.: Die Entstehung und Entwicklung der neuen Astronomie nach dem 2. Weltkrieg, public talk, Ingolstadt, Germany, November 2008.
- van Dishoeck, E.F.: ALMA: zooming in on the birthplaces of galaxies, stars and planets, public talk, KNAW symposium Telescopisch perspective, Amsterdam, The Netherlands, June 2008.
- van Dishoeck, E.F.: Astrochemistry and its uses in astronomy, invited talk, ISSI workshop: a new generation of databases for interstellar chemical modeling, Bern, Switzerland, January 2008.
- van Dishoeck, E.F.: Astrochemistry: building on Dalgarno's legacy, invited talk, Dalgarno celebratory symposium, Cambridge, USA, September 2008.
- van Dishoeck, E.F.: Building planets and the ingredients of life between the stars, public talk, University of Copenhagen, Denmark, April 2008.
- van Dishoeck, E.F.: Disks and their evolution: future prospects, invited talk, New light on young stars: Spitzer's view of circumstellar disks, Pasadena, USA, October 2008.
- van Dishoeck, E.F.: Gas and dust evolution in protoplanetary disk, colloquium, University of Copenhagen, Denmark, April 2008.
- van Dishoeck, E.F.: Gas and dust evolution in protoplanetary disks, colloquium, Geneva Observatory, Switzerland, June 2008.
- van Dishoeck, E.F.: Gas and dust evolution in protoplanetary disks, colloquium, University of San Diego, USA, May 2008.
- van Dishoeck, E.F.: Gas in protoplanetary disks: where and when?, contributed talk, JWST-MIRI science team meeting, Onsala, Sweden, May 2008.
- van Dishoeck, E.F.: Organic matter in space: an overview, invited talk, IAU Symposium 251: Organic matter in space, Hong Kong, China, February 2008.
- van Dishoeck, E.F.: Photoprocesses: rates and uncertainties, invited talk, ISSI workshop: a new generation of databases for interstellar chemical modeling, Bern, Switzerland, January 2008.
- van Dishoeck, E.F.: VLT-CRIRES observations of protoplanetary disks: where is the gas inside gaps?, colloquium, ESO, Garching, Germany, January 2008.
- van Dishoeck, E.F.: Water in the universe, invited talk, Molecular universe: physics and chemistry of the ISM, Arcachon, France, May 2008.
- Vongehr, M.: Development of slumped glass mirror segments for large X-ray telescopes, contributed talk, SPIE Astronomical Instrumentation, Marseille, France, June 2008.
- Weidenspointner, G.: A Galactic Mystery: INTEGRAL/SPI Observations of Positron Annihilation, colloquium, Universität Bielefeld, Germany, January, 2008.
- Weidenspointner, G.: Positron astronomy with SPI/INTEGRAL, contributed talk, Astronomy with Radioactivities VI, Schloss Ringberg, Germany, January, 2008.
- Zhdanov, S.: Alive Beating Heart of a Complex Plasma, contributed talk, MPE, PK3+ Symposium, Munich, Germany, November 2008.
- Zhdanov, S.: Basic Mechanisms of Circulation in Complex Plasmas, invited talk, Forschungszentrum Karlsruhe, ICOPS 2008, Karlsruhe, Germany, June 2008.
- Zhdanov, S.: Spontaneous Symmetry Breaking in a 2D Complex Plasma, contributed talk, Complex Plasma Meeting, Schloss Ringberg, Germany, July 2008.

## PhD Theses

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.

## Diploma Theses

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.

Hölzl, 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.

## Books

Paschmann, G. and P.W. Daly (Eds.): Multi-Spacecraft Analysis Methods Revisited. ISSI Scientific Report SR-008, ESA Publ. Div., Noordwijk, The Netherlands, 2008, 114p.

Trümper, J.E. and Hasinger, G. (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.

## Popular Scientific Publications

Davies, R., S. Rabien, C. Lidman, M. Le Louarn, M. Kasper, N.M. Förster Schreiber, V. Roccatagliata, N. Ageorges, P. Amico, C. Dumas and F. Mannucci: Laser Guide Star Adaptive Optics without Tip-tilt. *The Messenger* 131, 7 (2008).

Lichti, G. and 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).

Schönfelder, V.: INTEGRAL entdeckt den Gamma Himmel. In: *Geheimnisvoller Kosmos*. (Eds) T. Bürke, R. Wengenmayr. Wiley-VCH, Weinheim, (2008) 86-93.

von Kienlin, A., R. Gräve: GLAST vor dem Start. *DLR Countdown*, Heft 2/08 (2008).

# Collaborations / Transfer of Know-How

## Scientific Collaborations by Country



### Argentina

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).

### Australia

Australian National University: Galaxienentstehung.

Melbourne University: Astro-Plasmaphysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

### Austria

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

Universität und TU Wien: Herschel-PACS.

### Belgium

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

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

### Brazil

Universidade de Sao Paulo: Galaxienentstehung.

### Chile

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme.

**China**

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

Institute for Plasma Physics, Hefei: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

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

**Croatia**

Ministry of Science and Technology, Zagreb: CAST.

**France**

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

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

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

GIS-Phase Paris: MICADO.

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

IGRP Marseille: Herschel-PACS.

Observatoire de Meudon: ASTRO-WISE.

Observatoire de Paris / LESIA: GRAVITY.

**Germany**

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-Spektrograph für VLT; GRAVITY; GROND; ROSAT (MIDAS); Galaxienentstehung; ASTRO-WISE; OmegaCAM, PRIMA Testbed; MICADO.

Fraunhofer Institut für Festkörpertechnologie, München: XEUS; eROSITA.

IAP Berlin: HETDEX.

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

International University Bremen: Astro-Plasmaphysik, CLUSTER.

Institut für Festkörperphysik und Werkstoff-Forschung, Dresden: Entwicklung weichmagnetischer Werkstoffe.

Institut für Astronomie und Astrophysik Tübingen (IAAT): XMM-Newton; eROSITA.

Klinik für Dermatologie, Allergologie und Umweltmedizin, Krankenhaus München Schwabing: Plasmamedizin.

Landessternwarte Heidelberg-Königstuhl: Nahinfrarotspektrograph LUCIFER für LBT; Galaxienentstehung, ARGOS.

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 Driftdetektoren für den Röntgenbereich; CAST.

Max-Planck-Institut für Radioastronomie Bonn: ARGOS.

Thüringer Landessternwarte Tautenburg: 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 Jena: Isolierte Neutronensterne

Universität Köln: Galaktisches Zentrum; GRAVITY.

Universitätssternwarte Göttingen: OmegaCAM.

Universität Siegen: Compton Kamera.

Universität Würzburg: ACE, STEREO, AGADE.

**Greece**

University of Crete and Foundation for Research and Technology Hellas (FORTH), Heraklion: Ausbau und Betrieb der Skinakas Sternwarte; Untersuchung von windakkretierenden Röntgendoppelsternsystemen; Ent-

wicklung und Einsatz des OPTIMA Photometers; optische Identifikation und Monitoring von Röntgen-AGN, Novae.

### **Israel**

Beer Sheva University: Astro-Plasmaphysik.

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

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

### **Italy**

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen; IXO.

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

INAF Arcetri: ARGOS.

INAF Trieste: Gamma-Ray Bursts.

INAF Padua: Herschel-PACS; OmegaCAM; MICADO.

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.

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

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.

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

Yokohama National University: komplexe Plasmen.

### **The Netherlands**

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

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; Plasmalab.

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

### **Norway**

Universität Trømsø: Komplexe Plasmen.

### **Portugal**

Universität Lissabon: Komplexe Plasmen.

### **Rumania**

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

### **Russia**

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.

### **Sweden**

University Stockholm: komplexe Plasmen, Staubdetektion in Fusionsreaktoren.

### **Switzerland**

CERN, Geneva: CAST.

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

Observatoire de Genève Sauverny, Geneva: ISDC.

Universität Bern: SOHO/CELIAS; STEREO/PLASTIC.

### **Spain**

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; Pan-STARRS.

**Turkey**

Bogazici University, Istanbul: IMPF; CAST.

**UK**

Belfast, Queen's University: PanSTARRS.

BRUNEL University: XEUS.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

Open University, Milton Keynes: Kataklysmische Variablen, Novae

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

University 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; KMOS.

University of Sheffield: Astro-Plasmaphysik.

**Ukraine**

Main National Observatory, Kiev: RoPACS.

**USA**

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

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

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 Detektorenelemente für Herschel-PACS und SOFIA; Charakterisierung von GaAs-Detektorenmaterial.

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

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 Galliumarsenidematerial 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.

Texas State University: HETDEX.

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

University of California, Berkeley: MPG/UCB-Kollaboration; Fern-Infrarot-Detektoren; Galliumarsenide-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; PKE-Nefedov, PK-3 Plus.

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

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

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

University of Pittsburgh: Galaxienentstehung.

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

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung.

University of Washington, Seattle: CLUSTER/CIS.

University Space Research Association, Moffett Field: SOFIA.

## Multinational Collaborations - Projects

AGADE - Advanced Gamma-ray Detectors: Skobel'syn Inst. Moskow, 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.

BOSS: SDSS-III Collaboration.

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

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

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

CELIAS - Experiment for SOHO: MPS Katlenburg-Lindau, TU Braunschweig, Germany; Universität Bern, Switzerland; IKI 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.

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

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

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

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

Fermi Gamma-Ray Large Area Space Telescope: Stanford University Palo Alto, Naval Research Laboratory Washington DC, Sonoma State University Rohnert Park, Lockheed Martin Corporation Palo Alto, University of California Santa Cruz, University of Chicago, University of Maryland Greenbelt, NASA Ames Research Center Moffett Field, NASA Goddard Space Flight Center for High Energy Astrophysics Greenbelt, Boston University, University of Utah Salt Lake City, University of Washington Seattle, SLAC Particle Astrophysics Group Palo Alto, USA; ICTP and INFN Trieste, Istituto Nazionale di Fisica Nucleare Trieste, Italy; University of Tokyo, Japan; CEA Saclay, France.

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 Scientists: France, Germany, Norway, Russia.

ISDC - INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University Southampton, UK; Institut für Astronomie und Astrophysik Tübingen, Germany; Danish Space Research Institute Lyngby, Denmark; University College Dublin, Ireland; Istituto di Fisica Milano, Istituto 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.

IXO (XEUS) - 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 - Panoramic Survey Telescope & Rapid Response System: MPIA Heidelberg, Germany, University of Hawaii, Harvard University, USA, Johns Hopkins Univ. Baltimore, MD, USA, Universities of Durham, Edinburgh, Belfast, UK.

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

PK-4 (Plasma-crystal experiment): JIHT Moscow, Russia; Université d'Orléans CNRS, France; 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 - Plasma and Supra Thermal Ion Composition Investigation experiment for STEREO: University of New Hampshire Durham, NASA/GSFC Greenbelt, USA; Universität Bern, Switzerland; Universität Kiel, Germany.

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

Espacuval y Fisica Fundamental, Madrid, Spain; Main Astronomical Observatory, Kiev, Ukraine.

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

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

Swift - Gamma-Ray Burst Mission: NASA/GSFC Greenbelt, Penn State University, USA; University of Leicester, Mullard Space Science Laboratory London, UK; Osservatorio Astronomico Brera, Italy.

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

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

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

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

## Industrial Collaborations

ABN GmbH, Neuried: Ongoing servicing of the MPE test facility PANTER.

ADTEC Plasma Technology Co. Ltd., Hiroshima: Development of a low-temperature plasma device for in-vivo sterilisation in medical applications.

Albedo GmbH, Neubiberg; Soft- and hardware developments for PK-3 Plus; electronics for SDD readout.

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

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

Bonerz engineering, Weiler-Simmerberg: Platinum development, electronics development.

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

Carl Zeiss, Jena: eROSITA mirror and mandrels.

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

ESS, Landsberg: Servicing of the electrical installation; Manufacturing of electrical devices for the test facilities PANTER, CALIFA and PUMA.

ESL GmbH, Berlin: Manufacturing of circuit boards.

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

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

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

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

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

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

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

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

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

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

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

Kayser-Threde GmbH, München: Main contractor for Herschel-PACS; semiconductor detectors Gamma-Ray Astronomy; plasma-crystal experiments on the ISS; PKE; PK-3 Plus, PK-4, eROSITA-mirror system.

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

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

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

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

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

Sagem, Paris: Manufacturing of filters for OmegaCAM.

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

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

Tafelmaier Dünnschichttechnik, Rosenheim: mirror and antireflex coatings.

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

Zeiss, Oberkochen: Polishing of the SPIFFI mirrors.

## Activities in Transfer of Know-How

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

### A) Research cooperations financed by Industry

Dr. Johannes Heidenhain-Stiftung, Traunreut: Technologische Entwicklung auf dem Gebiet der Röntgenoptik und Röntgenspektroskopie; Absolutkalibrierung eines Röntgen-CCD Systems.

OHB-System GmbH, Bremen: Voruntersuchung für einen flexiblen S/W Simulator für Kleinsatelliten.

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

PNSensor, München, Aufbau und Test einer Gamma-Strahlen-Kamera.

### B) Licences

Ganimed AG, Freiburg: EKG-Analysen.

ADTEC, Japan, Plasma Torch.

Biocam, GmbH, Regensburg: Melanomerkenung.

Baader Planetarium GmbH, Mammendorf: Reflexionsgitter Spectrograph für Lehrzwecke.

PNSensor, München, Detektortechnologie

Baader Planetarium GmbH, Mammendorf: Baches Echelle Spectrograph

### C) Cooperations with Universities (by contract)

Anaesthesiology:

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

Scanning Probe Microscopy:

Institut für Kristallographie und Angewandte Mineralogie, Ludwig-Maximilians-Universität, München.

Radiology:

Institut für Röntgendiagnostik, TU München.

Pattern recognition:

Bayerisches Landeskriminalamt, SIZ, München.

Plasmamedicine:

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

Klinik und Poliklinik für Dermatologie, Universität Regensburg.

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

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

Detector Development:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung

### D) Patents - Activities in 2008

DEPFET Semiconductor Structure, Pat. US 7,518,203, USA.

Halbleiterdetektoren zur Strahlungsdetektion und zugehörigem Betriebsverfahren, EP 2 009 698 A2.

Halbleiterdetektor, DE 10 2007 029 898 B3, 2008.08.21  
DEPFET Transistor mit großem Dynamikbereich, DE 2008 048 890.6

„Non-thermal Wound Treatment and Associated Apparatus and Method“ (Europäische Patentanmeldung).

„Plasma Applicator and Corresponding Method“ (Europäische Patentanmeldung).

Weiterführung von Patentanmeldungen, deren Prioritätsdatum vor dem 1.1.2008 liegt:

„Venturi-PlaSter“ (PCT-Anmeldung EP08/003568)