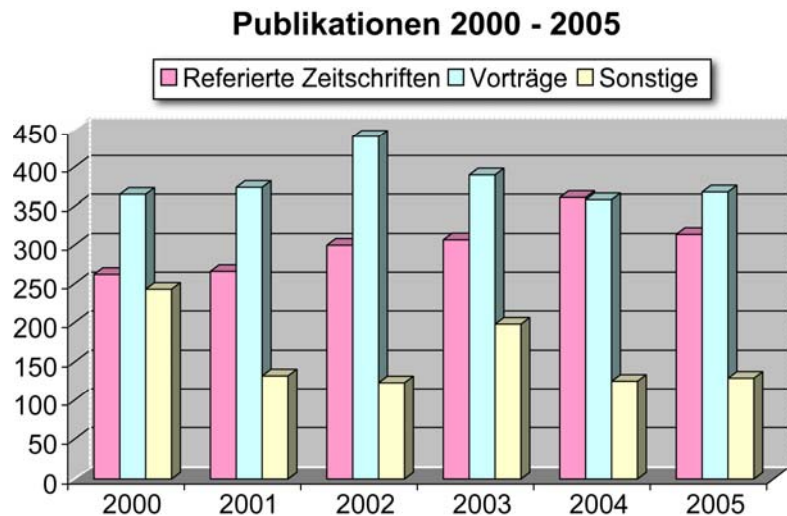


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- Briel, U.G.:* Crab: the standard X-ray candle with all (modern) X-ray satellites, contributed talk, UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XIV, San Diego, USA, August 2005.
- Briel, U.G.:* EPIC-pn CCD camera onboard XMM-Newton: an update of the calibration, contributed talk, UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XIV, San Diego, USA, August 2005.
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- Freyberg, M. et al:* Comparison of EPIC-pn ground-based and in-orbit calibration measurements, poster, 10<sup>th</sup> European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2005.
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- Meidinger, N.*: Next Generation of pnCCDs for X-ray spectroscopy and Imaging, contributed talk, 10<sup>th</sup> European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2005.
- Meidinger, N.*: PNCCD for photon detection from near-infrared to X-rays, contributed talk, Pixel 2005 - International Workshop on Semiconductor Pixel Detectors for Particles and Imaging, Bonn, Germany, September 2005.
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- Rabien, S.*: High resolution astrophysics and laser guide stars, colloquium, IAP Jena, Jena, Germany, May 2005.
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*Pfeffermann, E. et al:* Shielding of cosmic ray induced background in CCD detectors. EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.

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*Raeth, C. et al:* Phase Correlations in Financial Time Series, Dynamics Days 2005, Berlin, Germany, July 2005.

*Sala, G. et al:* XMM-Newton observations of the microquasars GRO J1655-40 and GRS 1915+105, The X-ray Universe 2005, San Lorenzo de El Escorial, Spain, September 2005.

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*Zhang, Y.-Y. et al:* Exploring Massive Galaxy Clusters: XMM-Newton observations of the REFLEX-DXL sample at  $z \sim 0.3$ . EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.

*Zhdanov, S. et al:* Evolution of the cloud of charged dust particles in a DC discharge plasma, 4<sup>th</sup> International Conference on the Physics of Dusty Plasmas (ICPDP 2005), Orleans, France, June 2005.

*Zhdanov, S. et al:* Impact of Structural Inhomogeneity on Waves in a 2D Complex Plasma, 32<sup>nd</sup> EPS Conference on Plasma Physics (EPS 2005), Tarragona, Spain, July 2005.

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*Zhdanov, S. et al:* Wave spectra in solid and liquid complex plasma, 4<sup>th</sup> International Conference on the Physics of Dusty Plasmas (ICPDP 2005), Orleans, France, June 2005.

#### 4.7 Vorträge / Talks

*Annaratone, B.M.:* Complex (dusty) plasmas in gravity and microgravity, invited talk, NBI Group, Institute for Plasma Research, Bhat, Gandhinagar, Ahmedabad, India, March 2005.

*Antonova, T.:* Microparticles as a diagnostic tool in multi-component plasmas, Kharkiv National V.N. Karazin University, Kharkiv, Ukraine, October 2005.

*Aschenbach, B.:* Ein neuer Effekt der Allgemeinen Relativitätstheorie zur Bestimmung von Masse und Drehimpuls schwarzer Löcher, invited talk, Fraunhofer Einsteinerung veranstaltet von Fraunhofer Micro Materials Center Berlin in Kooperation mit der Leibniz-Sozietät Berlin, der

Arnold-Sommerfeld-Gesellschaft Leipzig und der TU Berlin, Berlin, Germany, April 2005.

*Aschenbach, B.:* Mass and angular momentum of black holes: An overlooked effect of General Relativity applied to the Galactic Center Black Hole and microquasars, invited talk, Frascati workshop 2005 on Multifrequency Behaviour of High Energy Cosmic Sources, Vulcano Island, Italy, May 2005.

*Aschenbach, B.:* Mass and spin of the galactic center black hole Sgr A, invited talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.

- Aschenbach, B.:* Mass and Spin of the Galactic Center Black Hole, colloquium, Astrophysical Colloquium of the University of Tübingen, Germany, June 2005.
- Aschenbach, B.:* Non-thermal X-rays from shell like supernova remnants, invited talk, H.E.S.S. & Magic: Workshop on Pulsars, Pulsar Wind Nebulae, and Supernova Remnants, Berlin, Germany, April 2005.
- Aschenbach, B.:* Sgr A\*: Recent developments in the understanding of Kerr black holes, invited talk, The X-ray Universe 2005, San Lorenzo de El Escorial, Spain, September 2005.
- Aschenbach, B.:* X-ray telescopes for astronomy, invited talk, DPG School on Physics: The physics of imaging, Bad Honnef, Germany, September 2005.
- Bauer, M.:* A detailed RGS analysis of the Outflow of NGC 253, X-ray group meeting, Ringberg castle, Germany, February 2005.
- Bauer, M.:* The Outflow of NGC 253 in X-rays: A high resolution spectroscopic view, colloquium, Astronomisches Institut der Universität Erlangen-Nürnberg, Germany, December 2005.
- Becker, W.:* Future optical, X-ray and Gamma-ray facilities for pulsar studies, contributed talk, Workshop on compact Objects, Hsinchu, Taiwan, March 2005.
- Blagau, A.:* The day-side magnetopause as seen by Cluster: A case study and a statistical report, contributed talk, Solar-Terrestrial Interactions from Microscale to Global Models (STIMM) Conference, Sinaia, Romania, September 2005.
- Boese, F.G.:* Qualified Thresholds for Wavelet Shrinkage, contributed talk, Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik, Luxembourg, March 2005.
- Boese, F.G.:* Zur Impulsverzerrung in dispersiven Medien, contributed talk, 16. Internationaler Kongress der Österreichischen Mathematischen Gesellschaft und Jahrestagung der Deutschen Mathematiker-Vereinigung, Klagenfurt, Austria, September 2005.
- Böhringer, H.:* X-ray Clusters of Galaxies as Cosmological Probes, colloquium, Institute Seminar, CalTech, California, USA, March 2005.
- Böhringer, H.:* Conference Summary Talk, invited talk, Workshop: Distant Clusters of galaxies, Schloß Ringberg, Germany, October 2005.
- Böhringer, H.:* Cosmological Tests with Galaxy Clusters, invited talk, Einstein Conference, München, Germany, November 2005.
- Böhringer, H.:* Galaxy Cluster Structure Studies for Cosmological Applications, contributed talk, The X-Ray Universe 2004, San Lorenzo de El Escorial, Spain, September 2005.
- Böhringer, H.:* Precision Cosmology with Galaxy Clusters, colloquium, Institute Seminar, High Energy Physics Institute, CAS, Beijing, China, November 2005.
- Böhringer, H.:* Precision Cosmology with Galaxy Clusters, colloquium, Institute Kolloquium, National Observatory, Beijing, China, October 2005.
- Böhringer, H.:* Precision Cosmology with Galaxy Clusters, colloquium, Institute Colloquium, Tsing Hua University, Beijing, China, November 2005.
- Böhringer, H.:* Tracing Cosmic Structure Evolution and Testing Cosmological Models with X-ray Galaxy Clusters, invited talk, ConX-XEUS-Workshop, CfA Harvard, Cambridge, USA, February 2005.
- Böhringer, H.:* Tracing Cosmic Structure Evolution and Testing Cosmological Models with X-ray Galaxy Clusters, invited talk, XEUS working group meeting, Garching, Germany, May 2005.
- Böhringer, H.:* X-ray Clusters as probes for Cosmology, colloquium, Institute Seminar, University Bonn, Germany, May 2005.
- Böhringer, H.:* X-ray Galaxy Clusters as Probes for Cosmology, contributed talk, The Future of Cosmology with Galaxy Clusters, Kona, Hawaii, USA, February 2005.
- Böhringer, H.:* X-ray Studies of Galaxy Clusters, contributed talk, IAP Colloquium, Structure of Dark Matter Halos, IAP Paris, France, July 2005.
- Boller, Th.:* Anfang und Ende des Universums, public talk, Rotary Club Fürstfeldbruck, Germany, September 2005.
- Boller, Th.:* Anfang und Ende des Universums, public talk, Volkssternwarte München, Germany, January 2005.
- Boller, Th.:* Die wahre Geschichte des Sterns von Bethlehem, public talk, Volkshochschule Hallbergmoos, Germany, December 2005.
- Boller, Th.:* Die wahre Geschichte des Sterns von Bethlehem, public talk, Rotary Club Fürstfeldbruck, Germany, December 2005.
- Boller, Th.:* Dunkle Energie, Dunkle Materie, Schwarze Löcher: Ein kosmisches Puzzle, colloquium, Kolloquium der Johann-Wolfgang Goethe Universität Frankfurt a. M., Germany, Januar 2005.
- Boller, Th.:* Present and future opportunities for MWL observations from the point of X-ray astronomy, invited talk, Astroteilchenphysik in Deutschland: Status und Perspektiven 2005, Desy Zeuthen, Germany, October 2005.
- Braig, Christoph:* High resolution X-ray imaging, contributed talk, X-ray group meeting, Schloß Ringberg, Germany, February 2005.
- Brinkmann, W.:* Variability of the BL Lac Mrk 421, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Brusa, M.:* An XMM-Newton survey of Extremely Red Objects, contributed talk, The X-ray Universe 2005, San Lorenzo de El Escorial, Spain, September 2005.

- Brusa, M.:* The AGN content of the COSMOS, contributed talk, The role of wide and deep surveys in understanding galaxy evolution, Schloß Ringberg, Germany, April 2005.
- Brusa, M.:* The optical and X-ray properties of AGN in COSMOS, contributed talk, Einstein's Legacy: relativistic astrophysics and cosmology, München, Germany, November 2005.
- Brusa, M.:* The XMM-Newton COSMOS survey, contributed talk, Kyoto COSMOS meeting, Kyoto, Japan, May 2005.
- Bunk, W.H.:* Medizin und Chaostheorie, invited talk, Ringvorlesung der medizinischen Fakultät LMU München, Germany, November 2005.
- Bunk, W.H.:* Untersuchung raum-zeitlicher Korrelationen im Mehrkanal-Elektroenzephalogramm, invited talk, Arbeitskreis Mathematik in Forschung und Praxis (Universität Duisburg-Essen), 26. Symposium: Medizin und Mathematik, Bad Honnef, Germany, February 2005.
- Burwitz, V.:* XMM-Newton and Chandra high-resolution spectroscopy of Super Soft X-ray Binaries, invited talk, COSPAR Colloquium on "Spectra and Timing of Compact X-ray Binaries" at the Tata Institute of Fundamental Research, Mumbai, India, January 2005.
- Collmar, W.:* Blazars at MeV Energies: An Update, contributed talk, Blazar Variability Workshop II: Entering the GLAST Era, Miami, USA, April 2005.
- Dasyra, K.M.:* Evolution of local ULIRGs and their relation to QSOs, contributed talk, The Spitzer Science Center 2005 Conference: Infrared Diagnostics of Galaxy Evolution, Pasadena, USA, November 2005.
- Dasyra, K.M.:* Evolution of local Ultraluminous mergers from NIR spectroscopy, contributed talk, The Fabulous Destiny of Galaxies: Bridging Past and Present, Marseille, France, June 2005.
- Dasyra, K.M.:* Evolution of local Ultraluminous mergers from NIR spectroscopy, contributed talk, Institute for Astronomy, Hawaii, USA, November 2005.
- Dasyra, K.M.:* Evolution of local Ultraluminous mergers from NIR spectroscopy, contributed talk, University of Maryland, Baltimore, USA, November 2005.
- Dasyra, K.M.:* Probing for evolutionary links between local ULIRGs and QSOs from NIR spectroscopy, contributed talk, QSO Host Galaxies: Evolution and Environment, Leiden, The Netherlands, August 2005.
- Davies, R.:* First Results from the SINFONI GTO Program, contributed talk, Adaptive Optics Assisted Integral Field Spectroscopy, La Palma, Spain, May 2005.
- Davies, R.:* SINFONI's take on Black Hole Masses and the Star-Forming Torus in AGN, contributed talk, Science Perspectives for 3D Spectroscopy, München, Germany, October 2005.
- Davies, R.:* Stellar Dynamical Black Hole Masses in AGN, contributed talk, Superunification of AGN, Elba, Italy, May 2005.
- Dennerl, K.:* Cometary, Martian and Venusian X-rays, invited talk, Spring Meeting of the American Geophysical Union, New Orleans, USA, May 2005.
- Dennerl, K.:* Kometen und Planeten in neuem Licht: Unser Sonnensystem im Röntgenteleskop, public talk, FH Rosenheim, Germany, December 2005.
- Diehl, R.:* Astronomical Observations and Nuclear Physics, invited talk, Munich Accelerator for Fission Fragments (MAFF) Workshop, Kloster Banz, Germany, March 2005.
- Diehl, R.:* Galactic  $^{26}\text{Al}$ : Current Status from INTEGRAL, contributed talk, Conference "Astronomy with Radioactivities", Clemson, SC, USA, September 2005.
- Diehl, R.:* Gamma-Ray Astronomy, invited talk, VISTARS Workshop No. 2, Russbach, Austria, March 2005.
- Diehl, R.:* Gamma-Ray Astrophysics, colloquium, Michigan State University Physics Colloquium, East Lansing, MI, USA, April 2005.
- Diehl, R.:* Gamma-Ray Line Astrophysics with INTEGRAL, invited talk, Astrophysics Seminar of Nuclear Lab of Triangles University (TUNL), Chapel Hill, NC, USA, August 2005.
- Diehl, R.:* Gamma-Ray Lines and High-Energy Sources, invited talk, Conference "Astrophysical Sources of High-Energy Radiation and Particles", Torun, Poland, June 2005.
- Diehl, R.:* Implications of Cosmic Diffuse Gamma-Ray Line Results from INTEGRAL, contributed talk, 1<sup>st</sup> Workshop of CARINA Association, Aiguablava, Spain, June 2005.
- Diehl, R.:* INTEGRAL/SPI and  $^{26}\text{Al}$  in the Galaxy, contributed talk, INTEGRAL Science Workshop, ESA/ESTEC, Noordwijk, The Netherlands, January 2005.
- Diehl, R.:* Neutron Stars and other Science Results with INTEGRAL, colloquium, Physics Department of University of Notre Dame, Notre Dame, IN, USA, April 2005.
- Diehl, R.:* Nuclear Astrophysics with Gamma-ray Astronomy, invited talk, 3<sup>rd</sup> European Summer School on Nuclear Astrophysics, Santa Tecla, Italy, October 2005.
- Diehl, R.:* Observations of the Inner Galaxy with INTEGRAL, contributed talk, American Physics Society Meeting, Tampa, FL, USA, April 2005.
- Diehl, R.:* Spatial Distribution of Nucleosynthesis in the Galaxy, colloquium, NSSTC Astrophysics Colloquium, Huntsville, AL, USA, April 2005.
- Diehl, R.:* Studies of Isotopic Abundances through Gamma-Ray Lines, invited talk, Conferene on Origin and Evolution of Galaxies, Tokyo, Japan, November 2005.

- D'Onghia, E.:* Are Fossil groups challenging CDN models?, colloquium, University of Zürich, Switzerland, October 2005.
- D'Onghia, E.:* The angular momentum problem in LambdaCDM models, colloquium, IAC, Tenerife, Spain, April 2005.
- D'Onghia, E.:* The origin of Galactic Disks, contributed talk, UC Santa Cruz, USA, August 2005.
- D'Onghia, E.:* The angular momentum problem in CDM simulations and the origin of Galactic Disks, contributed talk, Ascona, Switzerland, June 2005.
- D'Onghia, E.:* The origin of Galactic Disks, contributed talks, Vulcano Island, Italy, June 2005.
- Eisenhauer, F.:* SINFONI in the Galactic Center: young stars and IR flares in the central light month, invited talk, The Paradoxes of Massive Black Holes: A Case Study in the Milky Way, Santa Barbara, USA, April 2005.
- Eisenhauer, F.:* SINFONI Science Highlights, contributed talk, Science Perspectives for 3D Spectroscopy, Garching, Germany, October 2005.
- Eisenhauer, F.:* The Galactic Center: The nearest Laboratory for Studying Supermassive Black Holes, invited talk, American Physical Society Meeting 2005, Tampa, USA, April 2005.
- Esquej, M.P.:* XMM-Newton (cross-) calibration, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Fassbender, R.:* Serendipitous Search for Very Distant Galaxy Cluster in XMM-Newton Archive Data, contributed talk, MPE X-ray Group Meeting, Schloß Ringberg, Germany, February 2005.
- Fassbender, R.:* The XMM-Newton Distant Cluster Project, contributed talk, Distant Clusters of Galaxies, Ringberg, Germany, October 2005.
- Finoguenov, A.:* Cluster scaling and its redshift evolution from XMM-Newton, contributed talk, EPIC-XMM-Newton Consortium Meeting – 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Finoguenov, A.:* Cluster search in deep XMM Fields, contributed talk, Distant cluster workshop, Schloß Ringberg, Germany, October 2005.
- Finoguenov, A.:* Cluster structure, luminosity function and strategies of X-ray surveys, invited talk, Horologium collaboration meeting at Catania Observatory, Catania, Italy, May 2005.
- Finoguenov, A.:* Current stand of galaxy group research in the COSMOS survey, colloquium, UIUC, Urbana-Champaign, USA, February 2005.
- Finoguenov, A.:* Evolution of X-ray galaxy groups, colloquium, ETH, Zürich, Switzerland, March 2005.
- Finoguenov, A.:* Galaxy groups in the COSMOS, colloquium, The University of Birmingham, UK, April 2005.
- Finoguenov, A.:* Galaxy groups in XMM-Newton surveys, colloquium, LAM OAMP, Marseille, France, September 2005.
- Finoguenov, A.:* Poor clusters in rich XMM fields, contributed talk, Annual meeting of Russian HEA, Moscow, Russia, December 2005.
- Finoguenov, A.:* Scaling and structure in galaxy clusters with XMM-Newton, contributed talk, Japanese-German workshop, Schloß Ringberg, Germany, February 2005.
- Finoguenov, A.:* Thermodynamics and chemical evolution of galaxy groups, invited talk, Rencontres de Moriond, La Thuile, Italy, March 2005.
- Finoguenov, A.:* X-ray search and photo-z identification of galaxy groups in the COSMOS, invited talk, COSMOS collaboration meeting, Kyoto, Japan, May 2005.
- Förster Schreiber, N.M.:* SINS: high-redshift spectroscopic imaging survey in the near-infrared with SINFONI, contributed talk, The Fabulous Destiny of Galaxies: Bridging Past and Present, Marseille, France, June 2005.
- Förster, M.:* Current structures in the transmission region between plasma sheet and ionospheric substorm current wedge as seen by Cluster, contributed talk, The XXVIII<sup>th</sup> URSI General Assembly, Vigyan Bhavan, New Delhi, India, October 2005.
- Förster, M.:* Cross-polar magnetospheric plasma drift as observed by Cluster (EDI) compared with ground-based radar observations in magnetically conjugate positions, contributed talk, The 12<sup>th</sup> International EISCAT Workshop, Kiruna, Sweden, August 2005.
- Förster, M.:* Die transpolare magnetosphärische Plasma-drift nach Messungen des EDI-Instruments auf Cluster, contributed talk, Nationaler Space Weather Workshop, DLR Neustrelitz, September 2005.
- Freyberg, M.:* The nearby ISM and the Local Bubble model, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Freyberg, M.J.:* The XMM-Newton EPIC-pn slew survey: a status report, contributed talk, X-ray Group Meeting, Schloß Ringberg, Germany, February 2005.
- Freyberg, M.J.:* The XMM-Newton Slew Survey: a wide-angle X-ray survey in the 0.2-12 keV band, contributed talk, The X-ray Universe 2005, San Lorenzo de El Escorial, Spain, September 2005.
- Gallo, L.C.:* XMM-Newton Observations of Narrow-line Seyfert 1 Galaxies, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of

- Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Genzel, R.:* The Massive Black Hole at the Center of the Milky Way, colloquium, SSL, University of California, Berkeley, USA, September 2005.
- Genzel, R.:* Dynamics of High Redshift Galaxies, colloquium, CITA, University of Toronto, Canada, May 2005.
- Genzel, R.:* From the Circum-Nuclear Disk to Star Disks in the Galactic Center, invited talk, Jack Welch Retirement Symposium, University of California, Berkeley, USA, September 2005.
- Genzel, R.:* High-Redshift Galaxy Kinematics, invited talk, Workshop dedicated to the 65<sup>th</sup> birthday of Alvio Renzini, Schloß Ringberg, Germany, July 2005.
- Genzel, R.:* Inward Bound: High Resolution Astronomy and the Quest for Black Holes and Extrasolar Planets, public evening lecture, Symposium "Amazing Light" in Honor of Charles H. Townes' 90<sup>th</sup> Birthday, Berkeley, USA, October 2005.
- Genzel, R.:* Inward Bound: Potential, Techniques and Results of High Resolution Astronomy. I. Results and expectations: Why you should learn it and use it, colloquium, Rossi Lecture, INAF Osservatorio Astrofisico di Arcetri, Florence, Italy, March 2005.
- Genzel, R.:* Inward Bound: Potential, Techniques and Results of High Resolution Astronomy. II. Seeing limited and diffraction limited: Basic physics, techniques, colloquium, Rossi Lecture, INAF Osservatorio Astrofisico di Arcetri, Florence, Italy, March 2005.
- Genzel, R.:* Inward Bound: Potential, Techniques and Results of High Resolution Astronomy. III. The next steps: A primer for the enthusiastic novice, colloquium, Rossi Lecture, INAF Osservatorio Astrofisico di Arcetri, Florence, Italy, March 2005.
- Genzel, R.:* Massive Black Holes and Galaxy Evolution, colloquium, AY290 Seminar, University of California, Berkeley, USA, January 2005.
- Genzel, R.:* Massive Black Holes in Galaxies, invited talk, Petrie Prize Lecture of CASCA (Canadian Astronomical Society of Canada), Montréal, Canada, May 2005.
- Genzel, R.:* Massive Black Holes in Galaxies, invited talk, Symposium „Geometry and Physics after 100 Years of Einstein's Relativity“, Max Planck Institute for Gravitational Physics/Albert Einstein Institute, Golm/Potsdam, Germany, April 2005.
- Genzel, R.:* Massive Black Holes, colloquium, Observatory of Strasburg, France, November 2005.
- Genzel, R.:* Massive Black Holes, invited talk, Grubb Parsons Lecture, University of Durham, UK, November 2005.
- Genzel, R.:* Massive Black Holes, invited talk, Halley Lecture, Oxford, UK, May 2005.
- Genzel, R.:* Massive Schwarze Löcher und Galaxien, Joint colloquium, MPI for Polymer Research and MPI for Chemistry, Mainz, Germany, November 2005.
- Genzel, R.:* Massive Schwarze Löcher und Galaxien, colloquium, Max Planck Institute for Plasma Physics (IPP), Garching, Germany, April 2005.
- Genzel, R.:* Massive Schwarze Löcher und Galaxien, colloquium, Universität Hannover, Germany, October 2005.
- Genzel, R.:* Massive Schwarze Löcher und Galaxien, invited talk, Einstein-Tag, Universität/Akademie der Wissenschaften, Göttingen, Germany, April 2005.
- Genzel, R.:* Massive Schwarze Löcher: "gravity strikes back", invited talk, Wolfgang Pauli Lecture, Symposium Physics in the 21<sup>st</sup> Century-100 Years after Einstein's "Annus Mirabilis", ETH, University of Zürich, Switzerland, June 2005.
- Genzel, R.:* Massive Schwarze Löcher: Gibt es sie, und was ist ihre Rolle im Universum? public talk, Open House Day, "Forschung live", Garching, Germany, October 2005.
- Genzel, R.:* News from the Galactic Center, contributed talk, Becklin-Fest "40 Years of Infrared Astronomy: A Tribute to Eric Becklin", Los Angeles, USA, April 2005.
- Genzel, R.:* Recent Results from the Home of Black Holes and Massive Stars, colloquium, Radio Astronomy Laboratory, University of California, Berkeley, USA, August 2005.
- Genzel, R.:* Science perspective on what has been achieved and what is needed for the future, invited talk, International Workshop "Integral Field Spectroscopy: Techniques and Data Production", Centre for Advanced Instrumentation, University of Durham, UK, July 2005.
- Genzel, R.:* The Black Hole and Nuclear Star Cluster at the Center of the Milky Way, colloquium, Institute of Astronomy, Cambridge, UK, May 2005.
- Genzel, R.:* The Central Black Hole and Nuclear Star Cluster of the Galaxy, colloquium, Cornell University, Ithaca, USA, May 2005.
- Genzel, R.:* The Central Black Hole and Nuclear Star Cluster of the Galaxy, colloquium, CITA, University of Toronto, Canada, May 2005.
- Genzel, R.:* The Central Black Hole and Nuclear Star Cluster of the Galaxy, invited talk, Elba Workshop on Superunification of Active Galactic Nuclei: Black Hole Mass, Spin and Accretion Rate, Elba, Italy, May 2005.
- Genzel, R.:* The Central Black Hole and Nuclear Star Cluster of the Galaxy, invited talk, Conference "Relativistic Astrophysics and Cosmology" – Einstein's Legacy, TU München, Germany, November 2005.

- Genzel, R.:* The Galactic Center, invited talk, Workshop on AGN and Galaxy Evolution, Castel Gandolfo (Rome), Italy, October 2005.
- Genzel, R.:* The Galactic Center, invited talk, Workshop on Science Perspectives for 3D Spectroscopy, ESO, Garching, Germany, October 2005.
- Genzel, R.:* The Massive Black Hole and Nuclear Star Cluster at the Center of the Milky Way, colloquium, Santa Cruz, USA, February 2005.
- Genzel, R.:* The Massive Black Hole at the Center of the Milky Way, colloquium, Golm (Berlin), Germany, January 2005.
- Genzel, R.:* The Massive Black Hole at the Center of the Milky Way, colloquium, Institute for Advanced Study, Princeton University, USA, September 2005.
- Genzel, R.:* Massive Schwarze Löcher und Galaxien, public talk, Deutsches Museum, München, Germany, November 2005.
- Genzel, R.:* Massive Schwarze Löcher und Galaxien, public talk, Volkssternwarte München, Germany, December 2005.
- Genzel, R.:* New results from integral field spectroscopy of  $z \sim 2$  galaxies, colloquium, University of Durham, UK, November 2005.
- Genzel, R.:* Spuren des Unsichtbaren: Massive Schwarze Löcher, invited talk, Helmholtz-Vorlesung, Humboldt University Berlin, Germany, November 2005.
- Genzel, R.:* The Central Black Hole and Nuclear Star Cluster in the Milky Way, invited talk, 11<sup>th</sup> Latin-American Regional IAU Meeting, Pucón, Chile, December 2005.
- Geppert, U.:* Can a dynamo generate the observed neutron star magnetic fields?, colloquium, colloquium of the Astronomical Institute of UNAM, Mexico D.F., March 2005.
- Geppert, U.:* Magneto-thermal evolution of isolated neutron stars', invited talk, Workshop on Pulsars, Pulsar-Wind Nebulae, and Supernova Remnants, Berlin, Germany, April 2005.
- Geppert, U.:* Magneto-thermal evolution of isolated neutron stars, invited talk, ECT\* Workshop on Compact Stars, Trento, Italy, September 2005.
- Geppert, U.:* Non-linear magnetic field evolution in neutron stars - theory and observation, colloquium of the Department of Physics, University of Notre Dame, USA., April 2005.
- Geppert, U.:* The fate of the magnetic field: from supernova progenitors to neutron stars, Kolloquium des Institutes für Astronomie und Astrophysik, Tübingen, Germany, July 2005.
- Gilli, R.:* The evolving obscured AGN population, The X-ray Universe, contributed talk, San Lorenzo de El Escorial, September 2005.
- Haaland, S.:* Discontinuity Analysis with Cluster, invited talk, Cluster and Double Star Symposium - 5<sup>th</sup> Anniversary of Cluster in Space, Noordwijk, The Netherlands, September 2005.
- Haaland, S.:* Discontinuity Analysis with Cluster: New Methods, contributed talk, Workshop on Solar-Terrestrial interactions from microscale to global models, Sinaia, Romania, September 2005.
- Haberl, F.:* EPIC observations of bright BL Lac objects: What can we learn from the X-ray spectra, contributed talk, The X-ray Universe 2005, San Lorenzo de El Escorial, Spain, September 2005.
- Haberl, F.:* Nearby radio-quiet isolated neutron stars with strong magnetic fields, invited talk, Neutron stars at the crossroads of fundamental physics, Vancouver, Canada, August 2005.
- Haberl, F.:* The Magnificent Seven: Nearby Isolated Neutron Stars with strong Magnetic Fields, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Hasinger, G.:* Am Himmel ist die Hölle los!, "Einstein-Party" auf dem Münchner Marienplatz, public talk, München, Germany, October 2005.
- Hasinger, G.:* Am Himmel ist die Hölle los!, public talk, Festvortrag auf der DFG Jahresversammlung, Berlin, July 2005.
- Hasinger, G.:* Am Himmel ist die Hölle los!, public talk, Reihe „Wahrnehmung“, Max-Planck-Gesellschaft, München, Germany, December 2005.
- Hasinger, G.:* Am Himmel ist die Hölle los!, public talk, Tag der offenen Tür, MPE Garching, October 2005.
- Hasinger, G.:* Astrophysik in Deutschland, Status, Probleme, Perspektiven, Astroteilchenphysik in Deutschland: Status und Perspektiven, invited talk, DESY Zeuthen, Germany, October 2005.
- Hasinger, G.:* Auf der Suche nach der Dunklen Energie, colloquium, Math.-Nat. Klassensitzung, Berlin-Brandenburgische Akademie der Wissenschaften, December 2005.
- Hasinger, G.:* Conference Summary & Concluding Remarks, The X-ray Universe, invited talk, San Lorenzo de El Escorial, Spain, September 2005.
- Hasinger, G.:* Das Schicksal des Universums, Der Mensch im Universum – das Universum des Menschen, public talk, Planetarium Wien, Austria, October 2005.
- Hasinger, G.:* Das Schicksal des Universums, public talk, Bayerische Akademie der Wissenschaften, München, Germany, November 2005.
- Hasinger, G.:* Das Schicksal des Universums, public talk, Studium Generale Mainzer Universitätsgespräche, Germany, June 2005.
- Hasinger, G.:* Das Schicksal des Universums, XXI. Weltraumphysikalisches Kolloquium, Der Weltraum als Labor, Ruhr-Universität Bochum, Germany, November 2005.
- Hasinger, G.:* Das Schicksal des Universums: Neue Erkenntnisse der Kosmologie, public talk,

- Max-Planck-Gymnasium München-Pasing, Germany, February 2005.
- Hasinger, G.:* Deep X-ray Surveys, invited talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005
- Hasinger, G.:* Die Entwicklung der Schwarzen Löcher im Kosmos, invited talk, WE-Heraeus Lehrerfortbildung, 100 Jahre Einstein: Vom Quant zum Kosmos, Potsdam, Germany, February 2005.
- Hasinger, G.:* Die Geschichte der Schwarzen Löcher, Physik-Kolloquium Göttingen, Germany, May 2005.
- Hasinger, G.:* Die Geschichte der Schwarzen Löcher, public talk, Festvortrag zur Wissenschaftlichen Sitzung am Leibniztag der Berlin-Brandenburgischen Akademie der Wissenschaften, May 2005.
- Hasinger, G.:* Evolution of Black Holes from Deep X-ray Surveys, The X-ray Universe, invited talk, San Lorenzo de El Escorial, September 2005.
- Hasinger, G.:* Formation and Evolution of Supermassive Black Holes, Science themes for a New-Generation X-ray Telescope, contributed talk, XEUS/Con-X Workshop, Boston, USA, February 2005.
- Hasinger, G.:* Formation and Evolution of Supermassive Black Holes, contributed talk, XEUS Consortium Meeting, MPE Garching, Germany, May 2005.
- Hasinger, G.:* Formation and Growth of Black Holes in the Universe, invited talk, Evening Lecture at 10<sup>th</sup> European Symposium on Semiconductor Detectors, Wildbad Kreuth, Germany, June 2005.
- Hasinger, G.:* Formation and growth of massive black holes, Current Topics in Astroparticle Physics, invited talk, Schloß Ringberg, Germany, April 2005.
- Hasinger, G.:* Formation and Growth of Supermassive Black Holes, colloquium, University Innsbruck, Austria, June 2005.
- Hasinger, G.:* Formation and Growth of Supermassive Black Holes, colloquium, ETH Zürich, Switzerland, December 2005.
- Hasinger, G.:* Large-scale X-ray Cluster Surveys, contributed talk, DFG Graduiertenkolleg 787, 21. Meeting, Bad Honnef, Germany, November 2005.
- Hasinger, G.:* Optical/NIR follow-up of the eROSITA surveys, MPE IR Group Retreat, contributed talk, Frauenchiemsee, Germany, December 2005.
- Hasinger, G.:* Röntgen-Surveys: Where to go from here? contributed talk, Schloß Ringberg-Workshop der MPE Röntgengruppe, Germany, February 2005.
- Hasinger, G.:* Schwarze Löcher – Anfang und Ende?, Einstein-Lecture im Rahmen der Einstein-Ausstellung, public talk, Berlin, Germany, August 2005.
- Hasinger, G.:* Schwarze Löcher und die Geschichte des Universums, public talk, Evangelisches Gymnasium Potsdam-Hermannswerder, Germany, May 2005.
- Hasinger, G.:* The anti-hierarchical evolution of AGNs, Stellar Populations, a Rosetta Stone for Galaxy Formation, invited talk, Schloß Ringberg, Germany, July 2005.
- Hasinger, G.:* The Growth of Black Holes in the Universe, Münchner Physik-Kolloquium, Germany, April 2005.
- Hasinger, G.:* The growth of supermassive Black Holes in the Universe, colloquium, Albert Einstein Institut, Golm, Germany, February 2005.
- Hasinger, G.:* The History Evolution of Black Holes, colloquium, International University Bremen, Germany, May 2005.
- Hasinger, G.:* The Violent Universe, Science and Art in Europe 2005: Highlights in Astronomy, invited talk, Harnackhaus Berlin, Germany, May 2005.
- Hasinger, G.:* The X-ray Background, From T Tauri stars to the edge of the universe, invited talk, Heidelberg, Germany, July 2005.
- Hasinger, G.:* Vom Schicksal der Schwarzen Löcher, public talk, Festkolloquium der Max-Planck-Gesellschaft zum Einstein-Jahr, Urania Berlin, Germany, June 2005.
- Hasinger, G.:* Vom Schicksal des Universums: Neue Erkenntnisse über Schwarze Löcher, public talk, Ernst-Abbe-Kolloquium Planetarium Jena, Germany, January 2005.
- Hasinger, G.:* Vom Urknall zum Stern von Bethlehem, invited talk, Cottbus, Germany, December 2005.
- Hasinger, G.:* Von der Relativitätstheorie zum GPS, public talk, Berlin-Brandenburgische Akademie der Wissenschaften, Germany, January 2005.
- Hasinger, G.:* X-ray surveys of Clusters, DFG Schwerpunkt: Witnesses of Cosmic History – Formation and Evolution of Black Holes, Galaxies and their Environment, invited talk, Irsee, September 2005.
- Hasinger, G.:* X-ray surveys of Clusters, Summer School: Dark Energy and Dark Matter in the Universe, invited talk, Alpbach, Austria, July 2005.
- Hasinger, G.:* X-ray surveys of Clusters, Workshop on Dark Energy, invited talk, Arnold Sommerfeld Center for Theoretical Physics, München, Germany, October 2005.
- Ivlev, A.V.:* Kinetics of dusty (complex) plasmas: Role of variable charges, contributed talk, 32<sup>nd</sup> IEEE International Conference on Plasma Science, Monterey, USA, June 2005.
- Ivlev, A.V.:* Kinetics of particle ensembles with variable charges, contributed talk, 32<sup>th</sup> EPS

- Conference on Plasma Physics, Tarragona, Spain, June 2005.
- Jamitzky, F.:* The Influence of Q-control on the Non-linear Dynamics of Amplitude Modulation Atomic Force Microscopy, contributed talk, 2005 International Symposium on Nonlinear Theory and its Applications, Bruges, Belgium, October 2005.
- Kanbach, G.:* Cosmic accelerators, invited talk, Prospects in space-based Gamma-Ray Astronomy for Europe, Rome, Italy, March 2005.
- Kanbach, G.:* Die Grundlagen der Gammastrahlen-Astronomie im MPE, invited talk, 200 + Years of MPE Science, Schloß Ringberg, Germany, November 2005.
- Kanbach, G.:* High time resolution astronomy across the e-m spectrum, invited talk, Sino-German workshop on radioastronomy: Cosmos probed by radio, Urumqi, China, September 2005.
- Kanbach, G.:* High-Energy Pulsars, invited talk, H.E.S.S. & MAGIC: Workshop on Pulsars, Pulsar Wind Nebulae, and Supernova Remnants, Humboldt-Universität Berlin, Germany, April 2005.
- Kanbach, G.:* Opening review on cosmic accelerators, invited talk, Astrophysical Sources of High Energy Particles and Radiation, Torun, Poland, June 2005.
- Kanbach, G.:* Status and future of Gamma-ray astronomy and the perspectives of multi-wavelength observations, invited talk, Sino-German workshop on radioastronomy: Cosmos probed by radio, Urumqi, China, September 2005.
- Khrapak, S.:* Does complex plasmas have a critical point? (a theoretical study), invited talk, Institute for High Energy Densities (IHED), Moscow, Russia, December 2005.
- Khrapak, S.:* "Trampoline effect" and the force field inside the void in complex plasma under microgravity conditions, contributed talk, 32<sup>nd</sup> EPS Plasma Physics Conference, Tarragona, Spain, June 2005.
- Khrapak, S.:* Critical point in complex plasmas, contributed talk, Annual Moscow Workshop on the Non-ideal Plasma Physics (NPP-2005), Moscow, Russia, December 2005.
- Khrapak, S.:* Critical point in complex plasmas: Theory, invited talk, Meeting on critical point studies in complex plasmas at MPE, Garching, Germany, May 2005.
- Khrapak, S.:* Particle charge in the bulk of gas discharges, contributed talk, 4<sup>th</sup> International Conference on the Physics of Dusty Plasmas, Orleans, France, June 2005.
- Klecker, B.:* Die Ionenladung schwerer Ionen in impulsiven solaren Ereignissen: ein Schlüssel zum Verständnis der Beschleunigungsregion, contributed talk, DPG/AEF Tagung, Berlin, Germany, March 2005.
- Klecker, B.:* Die Magnetosphäre der Erde, 2. Deutscher Weltraumwetter Workshop, invited talk, Neustrelitz, Germany, September 2005.
- Klecker, B.:* Heavy ion charge states in solar energetic particle events, invited talk, Workshop on Solar Terrestrial Interactions from Microscale to Global Models, Sinaia, Romania, September 2005.
- Klecker, B.:* Ionic charge states of Mg, Si and Fe in Fe-rich solar energetic particle events, contributed talk, Solar Wind 11 / SOHO 16 Workshop: Connecting Sun and Heliosphere, Whistler, Canada, June 2005.
- Klecker, B.:* Ionic charge states: a clue for the understanding of the location of the source region of solar energetic particles, contributed talk, EGU General Assembly, Vienna, Austria, April 2005.
- Klecker, B.:* Progress in the study of the magnetospheric ion population made by Cluster, invited talk, IAGA Scientific Assembly, Toulouse, France, July 2005.
- Klecker, B.:* Solar energetic particle charge states: an overview, invited talk, ISSI Workshop on Solar Dynamics and its Effects on Heliosphere and Earth, Bern, Switzerland, April 2005.
- Komossa, S.:* Flares in the X-ray sky: observational evidence for stellar tidal disruption events, colloquium, Yunnan Observatory, Kunming, China, August 2005.
- Komossa, S.:* Growing black holes: black hole merger events and tidal disruptions, invited talk, Japanese-German Symposium on the Formation and Co-Evolution of Black Holes and Galaxies, Regensburg, Germany, July 2005.
- Komossa, S.:* Massive Black Holes in the Nearby and Distant Universe, invited talk, Physik seit Einstein. DPG Jahrestagung, Berlin, Germany, March 2005.
- Komossa, S.:* Observational Evidence for Binary Black Holes and Active Double Nuclei, invited talk, AGN And Galaxy Evolution, Castel Gandolfo, Rome, Italy, October 2005.
- Konopka, U.:* Complex Plasmas – from the laboratory to space, invited talk, Deutsche Experimente auf Sounding Rocket-Flügen 1995-2004, Köln Porz, Germany, March 2005.
- Konopka, U.:* Complex Plasmas in Strong Magnetic Field Environments, contributed talk, Forth International Conference on the Physics of Dusty Plasmas, Orleans, France, June 2005.
- Kretschmer, K.:* Radioaktives <sup>26</sup>Al in der Milchstraße, invited talk, PSI Seminar, E12, TUM, Garching, Germany, December 2005.
- Kretschmer, K.:* Tracing radioactive <sup>26</sup>Al in the Milky Way, colloquium, Space Sciences Laboratory, UCB, Berkeley, USA, June 2005.

- Lehnert, M.D.:* LBGs at  $z>5$  and Reionization, colloquium, ESO/USM/MPA/MPE, Garching, Germany, January 2005.
- Lehnert, M.D.:* Spectroscopic Imaging Survey in the Near-Infrared with SINFONI (SINS) of High Redshift Galaxies, contributed talk, Science Perspectives for 3D Spectroscopy, Garching, Germany, October 2005 .
- Lehnert, M.D.:* The Properties of Young Galaxies Observed 1 Gyr After the Big Bang, contributed talk, Open Questions in Cosmology: the First Billion Years, Garching, Germany, August 2005.
- Lehnert, M.D.:* The Properties of Young Galaxies Observed 1 Gyr After the Big Bang, colloquium, ESO, Chile, Santiago, Chile, September 2005.
- Lehnert, M.D.:* The Properties of Young Galaxies Observed 1 Gyr After the Big Bang, colloquium, LAM, Marseille, France, September 2005.
- Lutz, D.:* High redshift infrared galaxies: Spitzer and mm views, colloquium, University of Maryland, College Park, USA, November 2005.
- Lutz, D.:* Infrared constraints on dust properties and torus, contributed talk, Superunification of active galactic nuclei, Marciana Marina, Elba, Italy, May 2005.
- Lutz, D.:* Science with Herschel-PACS, invited talk, New Observing Opportunities in the Far-Infrared and Submillimeter Range, Splinter at AG Meeting, Köln, Germany, September 2005.
- Lutz, D.:* Spitzer spectroscopy of submillimeter galaxies, contributed talk, Infrared Diagnostics of Galaxy Evolution, Pasadena, USA, November 2005.
- Marghitu, O.:* CIS moments calculation- CODIF and HIA: CCAT extension package-2, contributed talk, CIS Team Meeting, Paris, France, July 2005.
- Marghitu, O.:* Concentrated generator regions observed by Cluster in the plasma sheet boundary layers: Theoretical considerations, contributed talk, Workshop on Solar-Terrestrial Interactions from Microscale to Global Models, Sinaia, Romania, September 2005.
- Marghitu, O.:* Energy conversion in the auroral magnetosphere, contributed talk, DPG/AEF Annual Meeting, Berlin, March 2005.
- Marghitu, O.:* Experimental evidence for concentrated generator regions in the nightside auroral magnetosphere by Cluster/FAST conjunctions, contributed talk, CIS Team Meeting, Paris, France, July 2005.
- Marghitu, O.:* Experimental investigation of the auroral generator with conjugated Cluster and FAST data, contributed talk, IAGA Scientific Assembly, Toulouse, France, July 2005.
- Martins, F.:* Stellar populations in the Galactic Center with SINFONI, contributed talk, Science Perspectives for 3D Spectroscopy, ESO, Garching, Germany, October 2005.
- Martins, F.:* Stellar populations in the Galactic Center, contributed talk, SF2A 2005, Strasbourg, France, June 2005.
- Milvang-Jensen, B.:* Spectroscopy of clusters in the ESO Distant Cluster Survey (EDisCS), contributed talk, Danish Physical Society annual meeting 2005, Nyborg, Denmark, June 2005.
- Misanovic, Z.:* Variability of the X-ray sources detected in XMM-Newton survey of M33, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Mokler, F.:* Charge-induced coagulation of dust and runaway growth, colloquium, Astrophysikalisches Institut, Universität Jena, Germany, April 2005.
- Mokler, F.:* Charge-induced coagulation of dust and runaway growth, colloquium, Max-Planck-Institut für Astronomie, Heidelberg, Germany, March 2005.
- Monetti, R.:* Detecting Non-linearities in Data Sets via the Analysis of Fourier Phase Coupling, contributed talk, XXV Dynamics Days Europe 2005, Berlin, Germany, July 2005.
- Monetti, R.:* Structural Analysis of Human Proximal Femur for the Prediction of Biomechanical Strength In Vitro. The Locally Adapted Scaling Vector Method, contributed talk, SPIE Medical Imaging 2005, San Diego, USA, February 2005.
- Monetti, R.:* Structural Analysis of Human Proximal Femur for the Prediction of Biomechanical Strength In Vitro. The Locally Adapted Scaling Vector Method, invited talk, Magnetic Resonance Science Center. Department of Radiology. University of California, San Francisco, USA, February 2005.
- Monetti, R.:* Quantitative Analysis of Bone Mineral Structures, invited talk, Arbeitskreis Mathematik in Forschung und Praxis, 26. Symposium: Medizin und Mathematik, Bad Honnef, Germany, March 2005.
- Morfill, G.E.:* "Materiekreislauf", public talk, Radio Interview, Südwestfunk, May 2005.
- Morfill, G.E.:* Analyse komplexer Systeme, colloquium, BASF Münster, Germany, January 2005.
- Morfill, G.E.:* Complex Plasmas – a Review, contributed talk, Japanese Plasma Fusion Conference, Tokyo, Japan, November 2005.
- Morfill, G.E.:* Complex Plasmas: fundamental physics and applications, contributed talk, UK-Plasma Conference, Edinburgh, UK, December 2005.
- Morfill, G.E.:* Entstehung des Sonnensystems. Analyse komplexer Systeme, colloquium, TU Kaiserslautern, Germany, January 2005.
- Morfill, G.E.:* European Space Program on Complex Plasmas, contributed talk, Japanese Plasma Fusion Conference, Tokyo, Japan, November 2005.

- Morfill, G.E.:* Liquid Complex Plasmas, contributed talk, Nanofluidics Workshop, Bad Berkelo, The Netherlands, April 2005.
- Morfill, G.E.:* New Developments in Complex (dusty) Plasma Research, contributed talk, IPELS, Tromsø, Norway, July 2005.
- Morfill, G.E.:* New Physics of and with Complex Plasmas, contributed talk, International Plasma Summer School, Trieste, Italy, September 2005.
- Morfill, G.E.:* New Vistas in Complex (dusty) Plasmas, invited talk, ICDCP-Conference, Orleans, France, June 2005.
- Morfill, G.E.:* Saturn's Spokes, contributed talk, Midnight-Sun Workshop, Tromsø, Norway, July 2005.
- Morfill, G.E.:* Self-Organising Plasmas: fundamental physics and applications, colloquium, TU/LMU München, Germany, December 2005.
- Morfill, G.E.:* Strong Coupling Phenomena in Complex Plasmas, contributed talk, SCCS Conference, Moscow, Russia, June 2005.
- Müller, A.:* Active Cores in Deep Fields, invited talk, IAU Symposium 230: Populations of High Energy Sources in Galaxies, Dublin, Ireland, August 2005.
- Müller, A.:* Astrophysics of Kerr Black Holes, invited talk, MPE, Garching, Germany, January 2005.
- Müller, A.:* Einsteins Universum - Das Geheimnis der Dunklen Energie, public talk, Westfälische Volkssternwarte und Planetarium Recklinghausen, Germany, November 2005.
- Müller, A.:* Schüler treffen Astronomen: Schwarze Löcher in Fulda! public talk, Rabanus-Maurus Schule, Fulda, Germany, May 2005.
- Müller, A.:* Schwarze Löcher - Das dunkelste Geheimnis der Gravitation, public talk, FH Kaiserslautern, Standort Zweibrücken, Germany, December 2005.
- Müller, A.:* Schwarze Löcher - Das dunkelste Geheimnis der Schwerkraft, public talk, Tag der offenen Tür am MPE, Garching, Germany, October 2005.
- Müller, T.G.:* Asteroids in the infrared universe, invited talk, Frontiers of the Infrared-Astronomy, Heidelberg, Germany, December 2005.
- Noll, S.:* Dust properties of UV-bright galaxies at  $z \sim 2$ , contributed talk, The Fabulous Destiny of Galaxies: Bridging Past and Present, Marseille, France, June 2005.
- Paschmann, G.:* Review on Cluster results on the dayside, the ISSI book. Cluster and Double Star Symposium, Noordwijk, The Netherlands, September 2005.
- Paschmann, G.:* Magnetopause Structure and Reconnection: Cluster Results, invited talk, IPELS Conference, Tromsø, Norway, July 2005.
- Paumard, T.:* Getting to the Schwarzschild Radius, contributed talk, International Conference of the 5<sup>th</sup> APC Workshop: High Energy Phenomena in the Galactic Center, Paris, France, June 2005.
- Paumard, T.:* Scientific Prospects for VLTI in the Galactic Centre, contributed talk, The Power of Optical/IR Interferometry: Recent Scientific Results and Second Generation VLTI Instrumentation, Garching, Germany, April 2005.
- Paumard, T.:* The massive black hole and central star cluster in the Milky Way Center, invited talk, 5<sup>th</sup> AGILE Science Workshop: "The Galactic Center and Other Cosmic Accelerators", Rome, Italy, February 2005.
- Pierini, D.:* Near-IR Scaling Relations for Bulges and Disks at  $z=0$ , contributed talk, The Origin of the Hubble Sequence, Vulcano Island, Italy, June 2005.
- Pierini, D.:* The nature of high- $z$  red disk galaxies, colloquium, Universidad de Chile, Santiago de Chile, November 2005.
- Pietsch, W.:* An X-ray source population study of the Andromeda galaxy, contributed talk, The X-ray Universe 2005, San Lorenzo de El Escorial, Spain, September 2005.
- Pietsch, W.:* The X-ray source population in M31 and M33, invited talk, IAU Symposium 230: Populations of High Energy Sources in Galaxies, Dublin, Ireland, August 2005.
- Pietsch, W.:* The X-ray source populations in M33 and M31, colloquium, Observatoire de Strasbourg, France, November 2005.
- Pietsch, W.:* XMM-Survey of the Andromeda galaxy, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Pitout, F.:* Evolution of a flux transfer event along the magnetopause: Cluster and Double Star observations, EGU General Assembly 2005, Vienna, Austria, April 2005.
- Pitout, F.:* Magnetopause motion and ionospheric effects: Cluster and ground-based observations, IAGA meeting, Toulouse, France, July 2005.
- Posselt, B.:* Direct Imaging of Neutron Star Planets, contributed talk, IAU Colloquium 2005 Direct Imaging of Exoplanets, Villefranche-sur-mer, France, October 2005.
- Posselt, B.:* Searching for new isolated neutron star candidates, contributed talk, The New Physics of Compact Stars, Trento, Italy, September 2005.
- Posselt, B.:* Searching for Sub-stellar Companions around Neutron Stars, contributed talk, H.E.S.S. & MAGIC: Workshop on Pulsars, Pulsar Wind Nebulae, and Supernova Remnants, Berlin, Germany, April 2005.
- Pratt, G.:* Structural and scaling properties of galaxy clusters, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.

- Pratt, G.W.*: Dark matter and gas in galaxy clusters, contributed talk, EPIC Consortium Meeting, Schloß Ringberg, Germany, April 2005.
- Pratt, G.W.*: Entropie du gaz dans les amas de galaxies, contributed talk, Colloque du PNC, Orsay, France, November 2005.
- Pratt, G.W.*: Entropy in galaxy clusters, contributed talk, National Astronomy Meeting, Birmingham, UK, April 2005.
- Pratt, G.W.*: Similarity in galaxy systems, colloquium, Bristol, UK, June 2005.
- Pratt, G.W.*: Structure and scaling of the entropy in nearby galaxy clusters, contributed talk, X-ray Universe 2005, San Lorenzo de El Escorial, Spain, September 2005.
- Pratt, G.W.*: Structure and scaling properties of nearby galaxy clusters, contributed talk, Distant Clusters of Galaxies, Schloß Ringberg, Germany, October 2005.
- Pratt, G.W.*: The mass distribution in galaxy clusters, contributed talk, National Astronomy Meeting, Birmingham, UK, April 2005.
- Predehl, P.*: Raum und Zeit, public talk, Fachhochschule, Rosenheim, Germany, July 2005.
- Predehl, P.*: Raum und Zeit, public talk, Förderkreis Planetarium, Göttingen, Germany, April 2005.
- Predehl, P.*: Raum und Zeit, public talk, Volksternwarte, München, Germany, April 2005.
- Raeth, C.*: Improving the textural characterization of trabecular bone structure to quantify its changes: the locally adapted scaling vector method, contributed talk, SPIE: Medical Imaging, San Diego, USA, February 2005.
- Raeth, C.*: Improving the textural characterization of trabecular bone structure to quantify its changes: the locally adapted scaling vector method, invited talk, University of California, San Francisco, USA, February 2005.
- Raeth, C.*: On Noise Properties in MR-Sequences at Three Tesla - Some Empirical Findings, invited talk, General Electric Global Research, Garching, Germany, July 2005.
- Raeth, C.*: Status und Perspektiven der Forschung in Deutschland, public talk, Förderungswerk der Hanns-Seidel-Stiftung, München, Germany, October 2005.
- Raeth, C.*: Structural Analysis of tomographic Images with the Locally Adapted Scaling Vector Method, invited talk, Workshop of the MPI for Biochemistry, Schloß Ringberg, Germany, January 2005.
- Ratynskaia, S.*: Nonlocality and memory effects in grain dynamics on a 2D dust plasma quasicrystal, contributed talk, 32<sup>nd</sup> EPS Plasma Physics Conference, Tarragona, Spain, June 2005.
- Ratynskaia, S.*: The delights and pitfalls of electric probe measurements in plasmas, invited talk, Workshop on "Frontiers in Low Temperature Plasma Diagnostics", Les Houches, France, April 2005.
- Rau, A.*: Constraining the LGRB Collimation with a Survey for Orphan Afterglows, contributed talk, Gamma Ray Bursts in the Swift Era, Washington DC, USA, November 2005.
- Rau, A.*: Gamma-Ray Bursts: A Population Study, colloquium, California Institute of Technology, Pasadena, USA, September 2005.
- Rau, A.*: GRB/XRF 030528: redshift and host galaxy properties, contributed talk, GRBs: the first three hours - RTN School, Santorini, Greece, August 2005.
- Rau, A.*: SPI-ACS: from GRBs to SGRs, contributed talk, Meeting of the RTN on Gamma-Ray Bursts, Reykjavik, Island, April 2005.
- Saglia, R.*: The cosmic star formation rate from the FDF and the Goods-S fields, invited talk, Conference in Honour of Alvio Renzini, Schloß Ringberg, Germany, July 2005.
- Sala, G.*: X-ray Emission from Classical Novae, colloquium, Institut für Astronomie und Astrophysik, Universität Tübingen, Germany, July 2005.
- Samsonov, D.*: Complex (dusty) plasmas, invited talk, University of Liverpool, UK, November 2005.
- Samsonov, D.*: Complex plasmas: a review, invited talk, European Low Gravity Research Association Symposium (ELGRA 2005), Santorini, Greece, September 2005.
- Samsonov, D.*: Wave phenomena in complex (dusty) plasmas with low damping, contributed talk, 32<sup>nd</sup> EPS Conference on Plasma Physics (EPS 2005), Taragonna, Spain, June 2005.
- Samsonov, D.*: Wave Phenomena in Complex (Dusty) Plasmas With Low Damping, invited talk, XXVIII<sup>th</sup> General Assembly of International Union of Radio Science (URSIGA 2005), New Delhi, India, October 2005.
- Samsonov, D.*: Waves and dynamic phenomena in complex (dusty) plasmas, invited talk, Institut für Niedertemperatur Plasmaphysik (INP) Greifswald, Germany, November 2005.
- Scheingraber, H.*: Entstehung der Materie aus kosmologischer Sicht, colloquium, Sonderveranstaltung Weltschöpfung, CG Jung Institut, Zürich, Switzerland, November 2005.
- Scheingraber, H.*: Leben und Sterben der Sterne, public talk, Bürgerforum GOD, Günzenhausen, Germany, October 2005.
- Scholer, M.*: An overview of particle distributions upstream of Earth's bow shock, invited talk, AGU Fall Meeting, San Francisco, USA, December 2005.
- Scholer, M.*: Injection and acceleration at interplanetary traveling shocks, planetary bowshocks, and the heliospheric termination shock, invited talk, EGU General Assembly 2005, Vienna, Austria, April 2005.

- Scholer, M.:* Kinetic structure of quasi-perpendicular collisionless shocks, invited talk, 4<sup>th</sup> Annual Intern. Astrophys. Conference IGPP, Palm Springs, USA, February 2005.
- Scholer, M.:* Magnetic reconnection: A Tutorial, colloquium, Queen Mary College - University London, UK, October 2005.
- Scholer, M.:* Particles and field at collisionless shocks: simulation results versus recent Cluster bow shock observations, invited talk, International Space Simulation School/ Symposium 7, Kyoto, Japan, March 2005.
- Scholer, M.:* Particles and fields at collisionless shocks: Simulations versus recent Cluster bow shock observations, invited talk, Cluster and Double Star Symposium, Noordwijk, The Netherlands, September 2005.
- Scholer, M.:* Quasi-perpendicular shock structure: full particle electromagnetic simulations, invited talk, EGU General Assembly 2005, Vienna, Austria, April 2005.
- Scholer, M.:* Review on shock physics: Modified two-stream instability, Buneman instability, Bernstein modes, etc, in the various parameter regimes, invited talk, Workshop on Energetic Particle Phenomena in the Magnetosphere, Tokyo, Japan, March 2005.
- Scholer, M.:* What can shock simulations tell us about the true structure of the termination shock?, invited talk, Symposium on Future Perspectives in Heliospheric Research: Unsolved Problems, New Missions – New Sciences, Bad Honnef, Germany, April 2005.
- Schuecker, P.:* Einsteins kosmologische Konstante, public talk, Sternfreunde Nordenham, Germany, March 2005.
- Schuecker, P.:* Indications for Turbulence in the Coma Galaxy Cluster, contributed talk, EPIC-XMM-Newton Consortium Meeting – 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Schuecker, P.:* Large-scale structure from galaxy clusters: Present status and future perspectives, contributed talk, Ringberg workshop: Distant clusters of galaxies, Schloß Ringberg, Germany, October 2005.
- Schuecker, P.:* Observational constraints on Dark Energy and the equation of state  $w$  of the Dark Energy, contributed talk, Workshop on Dark Energy, München, Germany, October 2005.
- Schuecker, P.:* Scientific Methods to derive modern Cosmological Constraints, invited talk, Summer School Alpbach 2005: Dark Energy and Dark Matter in the Universe, Alpbach, Austria, July 2005.
- Streblyanskaya, A.:* Probing the X-ray Universe: Analysis of faint sources with XMM-Newton, contributed talk, EPIC-XMM-Newton Consortium Meeting - 5 Years of Science with XMM-Newton, Schloß Ringberg, Germany, April 2005.
- Strong, A.W.:* Diffuse hard X-ray and gamma-ray emission from the Galaxy, invited talk, Joint GDR/PCHE meeting on high-energy cosmic phenomena, Institut d'Astrophysique de Paris, France, June 2005.
- Strong, A.W.:* Galactic Gamma-Ray Continuum with SPI, contributed talk, INTEGRAL Internal Science Workshop, ESTEC, Noordwijk, The Netherlands, January 2005.
- Strong, A.W.:* Hard X-rays from the interstellar medium: latest results from INTEGRAL, colloquium, Stanford University Astrophysics, Stanford, USA, September 2005.
- Strüder, L.:* DEPFET Active Pixel Sensors and pnCCDs for Room Temperature Imaging (X-Ray) Spectroscopy in Space Missions and Terrestrial Astronomy, contributed talk, IEEE Nuclear Science Symposium, San Juan, Puerto Rico, October 2005.
- Strüder, L.:* Focal Plane Detector Developments for Future X-ray Missions, contributed talk, Symposium on Radiation Detectors, Wildbad Kreuth, Germany, June 2005.
- Strüder, L.:* Halbleiterdetektoren in der angewandten Forschung, colloquium, FZJ, Jülich, Germany, April 2005.
- Strüder, L.:* High speed detectors from the NIR radiation to Gamma rays, invited talk, Space physics department, University Leicester, UK, February 2005.
- Strüder, L.:* High Speed Imagers from 1 Å to 1 µm, invited talk, LBL, Space Laboratory, Berkeley, USA, August 2005.
- Strüder, L.:* Orts- und energieauflösende Detektoren vom Sichtbaren bis zum Röntgenlicht, invited talk, Bruker-AXS, Karlsruhe, Germany, November 2005.
- Strüder, L.:* Ortsaufgelöste Hochratenspektroskopie bei Raumtemperatur, invited talk, Photonik Zentrum Berlin-Adlershof, Berlin, Germany, September 2005.
- Strüder, L.:* Position and Energy Resolved Room Temperature X-Ray Detectors, contributed talk, Conference "Microbeam Analysis & Microscopy", Honolulu, USA, August 2005.
- Strüder, L.:* Position, energy and time measurements with pixellated detectors, invited talk, Physik Department TU München, Germany, January 2005.
- Strüder, L.:* Semiconductor Detectors – Applications in Basic Science and Industry, invited talk, ICFA summer school, Istanbul, Turkey, September 2005.
- Strüder, L.:* Semiconductor Detectors – Basic Principles, invited talk, ICFA summer school, Istanbul, Turkey, September 2005.
- Strüder, L.:* Semiconductor Detectors for Ionizing Radiation - New Developments, contributed talk, Conference X-ray group, Schloß Ringberg, Germany, February 2005.

- Strüder, L.:* Semiconductor radiation detectors for position resolved electron spectroscopy, invited talk, MPI for Biochemistry, Martinsried, Germany, May 2005.
- Strüder, L.:* Semiconductor sensors for high resolution imaging, invited talk, Brunel University, Uxbridge, UK, June 2005.
- Strüder, L.:* Silicon Drift Detectors for X-ray Imaging, invited talk, SRI05 Workshop, Argonne National Lab., Chicago, USA, December 2005.
- Strüder, L.:* The XEUS Wide Field Imager, invited talk, EADS/Astrium UK, Stevenage, UK, June 2005.
- Strüder, L.:* Wide dynamic range imaging detectors for X-FEL beamlines, invited talk, X-ray detector workshop am SLAC, Stanford, USA, February 2005.
- Sturm, E.:* The mid-infrared spectra of X-ray selected type 2 QSOs, contributed talk, Spitzer Space Telescope: Infrared Diagnostics of Galaxy Evolution, Pasadena, USA, November 2005.
- Tacconi, L.J.:* Dynamics and Evolution of Ultraluminous Galaxies at Low and High Redshift: ULIRGs and SMGs, colloquium, Arcetri Observatory, Florence, Italy, March 2005.
- Tacconi, L.J.:* Dynamics and Evolution of Ultraluminous Galaxies at Low and High Redshift: ULIRGs and SMGs, invited talk, Specola Vaticana Meeting on AGN and Galaxy Evolution, Castel Gandolfo, Rome, Italy, October 2005.
- Tacconi, L.J.:* Dynamics and Evolution of Ultraluminous Mergers at Low and High Redshift, invited talk, Spitzer Science Center 2005 Conference: IR Diagnostics of Galaxy Evolution, Pasadena, California, USA, November 2005.
- Tacconi, L.J.:* Galaxy Centers at High Redshift: Kinematics and Evolution at  $z \sim 2-3$ , colloquium, Max Planck Institut für Astronomie, Heidelberg, Germany, June 2005.
- Tacconi, L.J.:* The Dynamics and Evolution of Ultraluminous Mergers, contributed talk, Superunification of AGN, Marciana Marina, Elba, Italy, May 2005.
- Thoma, M.H.:* Complex plasmas as a model for the quark-gluon-plasma liquid, invited talk, Quark Matter 2005, Budapest, Hungary, August 2005.
- Thoma, M.H.:* Parabolic flight experiments with PK-4, contributed talk, ELGRA Biennial Symposium, Santorini, Greece, September 2005.
- Thomas, H.M.:* Experiments under Microgravity Conditions – New Directions, invited talk, International Conference on the Physics of Complex Plasmas, Orleans, France, May 2005.
- Thomas, H.M.:* Plasma Crystal Research on the International Space Station: Past, Present and Future, public talk, MAKS 2005 - International Aviation & Space Salon, Moscow, Russia, August 2005.
- Treumann, R.A.:* Die Entstehung der Erde, public talk, Evangelische Akademie Mecklenburg, Zingst, Germany, September 2005.
- Treumann, R.A.:* Phase space holes in the Earth's environment, invited talk, EGU General Assembly 2005, Vienna, Austria, April 2005.
- Trippe, S.:* SgrA\* and the central cluster in NIR, contributed talk, High energy phenomena in the Galactic Center, Paris, France, June 2005.
- Trümper, J.:* Deep searches for isolated radio-quiet neutron stars, invited talk, IAU Symposium 232, The Scientific Requirements for Extremely Large Telescopes, Cape Town, South Africa, November 2005.
- Trümper, J.:* Gammastrahlen – Blitze vom Rande des Universums, public talk, Nordenham, Germany, September 2005.
- Trümper, J.:* Gammastrahlen – Blitze vom Rande der Welt, public talk, Rosenheim, Germany, January 2005.
- Trümper, J.:* My Encounters with Neutron Stars and Russian Astrophysicists, Yuri Gnedin Colloquium, St. Petersburg, Russia, September 2005.
- Trümper, J.:* Neuere Ergebnisse der Röntgenastronomie, invited talk, IAA Regional Meeting, Bremen, Germany, April 2005.
- Trümper, J.:* Observations of Neutron Star Cooling in X-rays, invited talk, A Life with Stars, Meeting in honor of Ed van den Heuvel, Amsterdam, The Netherlands, August 2005.
- Trümper, J.:* Observations of Neutron Stars and the Equation of State of Nuclear Matter, invited talk, ECT Trento workshop "The New Physics of Compact Stars", Trento, Italy, September 2005.
- Trümper, J.:* Observations of Neutron Stars and the Equation of State of Nuclear Matter, invited talk, University of Witwatersrand, Johannesburg, South Africa, December 2005.
- Trümper, J.:* The Equation of State at Supranuclear Densities – Results from Recent Astronomical Observations, invited talk, Conference on Theoretical Physics, Lebedev Physical Institute Moskau, Russia, April 2005.
- Trümper, J.:* The Photospheric Radii of Cooling Neutron Stars and the Equation of State of Nuclear Matter, colloquium, Nizhni Novgorod, September 2005.
- Trümper, J.:* X-ray observations of neutron stars and the equation of state at high densities, colloquium, GSI Darmstadt, Germany, December 2005.
- Verma, A.:* The properties of star-forming Lyman Break Galaxies at  $z > 5$ , contributed talk, The Fabulous Destiny of Galaxies: Bridging past and present, Marseille, France, June 2005.
- Wilman, D.J.:* The CNOC2 sample of intermediate redshift galaxy groups - the powerhouse of galaxy evolution, contributed talk, The Fabulous Destiny of Galaxies: Bridging Past and Present, Marseille, France, June 2005.

*Wilman, D.J.:* The influence of the group environment since  $z \sim 0.5$ : Morphologies and Star Formation, contributed talk, Groups of galaxies in the nearby Universe, Santiago, Chile, December 2005.

*Yaroshenko, V.V.:* Coupling of dust-lattice modes in complex plasmas, contributed talk, 32<sup>nd</sup> EPS Conference, Tarragona, Spain, June 2005.

*Zibetti, S.:* Photometric properties of MgII absorber systems from the stacking of  $\sim 800$  SDSS-EDR QSOs, contributed talk, From Simulations to Surveys, MPA Workshop, Schloß Ringberg, Germany, June 2005.

*Zibetti, S.:* Stellar halos around disk galaxies: results from SDSS stacking and Hubble UDF

surface photometry, contributed talk, Outer edges of disk galaxies: A truncated perspective - A joint Granada-Groningen workshop, Leiden, The Netherlands, October 2005.

*Zibetti, S.:* Ultra deep photometry with large surveys: The image stacking approach, colloquium, University of Pennsylvania, Philadelphia, USA, September 2005.

*Zibetti, S.:* Very deep photometry with the SDSS: the image stacking approach, colloquium, Institute for Advanced Study, Princeton, NJ, USA, September 2005.

*Zibetti, S.:* What's left when Galaxies are torn to shreds? contributed talk, The Origin of the Hubble Sequence, Vulcano Island, Italy, June 2005.

#### 4.8 Dissertationen / PhD Theses

*Gallo, L.C.:* X-ray Properties of Narrow-line Seyfert 1 Galaxies. LMU München 2004.

*Rabien, S.:* Wirtsgalaxien von Quasaren und der Laserleitstern für das Very Large Telescope. LMU München 2005.

*Zoglauer, A.C.:* First Light for the Next Generation of Compton and Pair Telescopes. TU München 2005.

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