Garching

Max-Planck-Institut für extraterrestrische Physik

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0 Allgemeines

Das Max-Planck-Institut für extraterrestrische Physik (MPE), gegründet 1963, befaßt sich mit Themen der Astrophysik und Plasmaphysik, die sich fünf großen Bereichen zuordnen lassen: (i) *Großräumige Struktur und Kosmologie*, (ii) *Galaxien und Galaxienentwicklung*, (iii) *Massive Schwarze Löcher und Aktive Galaxien*, (iv) *Sternentwicklung und Interstellares Medium* und (v) *Komplexe Plasmen*. Dabei werden überwiegend experimentelle Methoden angewandt, aber auch theoretische Untersuchungen durchgeführt. Der Name des Instituts bezieht sich einerseits auf den Gegenstand der Forschung: die Physik des Weltraums, andererseits auf die Forschungsmethoden: viele unserer Experimente werden notwendigerweise oberhalb der dichten, absorbierenden Erdatmosphäre mit Flugzeugen, Raketen, Satelliten und Raumsonden durchgeführt. In zunehmendem Maße setzen wir aber, vor allem im optischen und Infrarotbereich, auch Instrumente an erdgebundenen Teleskopen ein. Ergänzt werden unsere Untersuchungen durch Experimente im Labor.

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

Zwei technologische Einrichtungen des MPE sind von besonderer Bedeutung: Die 130 m lange Vakuumanlage *Panter* zum Test von Röntgenteleskopen in Neuried bei München und das zusammen mit dem Max-Planck-Institut für Physik betriebene *Halbleiterlabor* in München-Neuperlach, in dem Strahlungsdetektoren für unsere Raumfahrtexperimente entwickelt werden. Auch durch diese Einrichtungen gewinnt der Transfer von neuen Verfahren

und Methoden in die industrielle Anwendung immer mehr an Bedeutung. Besonders hervorzuheben sind dabei ein weiter Bereich von Anwendungen für die von uns entwickelten Strahlungsdetektoren, die erfolgreiche Verwendung mathematischer Methoden der nichtlinearen Dynamik in der Medizin, sowie die Anwendungen der Plasmaphysik auf die Medizin. Im Rahmen dieser Transfer-Aktivitäten hält das MPE derzeit 40 Patente.

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

1 Personal und Ausstattung

1.1 Personalstand

Direktoren und Professoren:

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

Auswärtige wissenschaftliche Mitglieder:

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

Kuratorium:

Dr. L. Baumgarten (ehemaliges Vorstandsmitglied DLR); Prof. Dr. A. Bode (Vizepräsident TU München); J. Breitkopf (Kayser-Threde GmbH, München); H-J. Dürrmeier (ehemalig Süddeutscher Verlag, München); Prof. Dr. W. Glatthaar (ehemaliger Präsident der Universität Witten/Herdecke, Stuttgart, Kuratoriumsvorsitzender); Dr. G. Gruppe (Bayerisches Staatsministerium für Wirtschaft, Verkehr und Technologie, München); Prof. Dr. B. Huber (Rektor der LMU München); Dr. M. Mayer (ehemaliges Mitglied des Bundestages, Höhenkirchen); Min.Dir. L. Meyer (Bundesministerium für Wirtschaft und Technologie, Berlin); Prof. Dr. E. Rohkamm (Blohm & Voss GmbH, Hamburg).

Fachbeirat:

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

Sonderfachbeirat (CIPS):

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

Wissenschaftliche Mitarbeiter und Angestellte

A. Infrarot-und Sub-mm-Astronomie

A. Agudo Berbel, Dr. S. Berta, Dr. S. Bruderer, Dr. A. Contursi, Dr. R. Davies, Dr. J.A. de Jong, Dr. K. Dodds-Eden, Dr. V. Doublier Pritchard, Dr. F. Eisenhauer, Dr. D. Fedele, Dipl.-Phys. H. Feuchtgruber, Dr. N. Förster Schreiber, Dr. N. Geis, H. Gemperlein, Dr. S. Gillessen, Dr. J. Grácia Carpio, A. Gräter, Dr. S. Hailey-Dunsheath, S. Harai-Ströbl, Dr. G. Herczeg, Dr. R. Hofmann, Dr. S. Kanneganti, Dr. R. Katterloher, A. Kleiser, H. Krombach, Dr. J. Kurk, Dr. D. Lutz, Dr. B. Magnelli, Dr. T. Müller, Dr. R. Nordon, S. Osterhage, Dr. A. Poglitsch, Dr. P. Popesso, Dr. W. Raab, Dr. S. Rabien, Dr. D. Rosario, Dr. A. Saintonage, Dr. E. Sturm, Dr. L. Tacconi, Dr. E. Vilenius, Dr. M. Wetzstein, Dr. S. Wuyts, J. Zanker-Smith.

Doktoranden/Diplomanden/Master/Bachelor:

P. Buschkamp, H. Engel, T. Fritz, S. Genel, A. Karska, C. Kister, M. Lippa, D. Moch, G. Orban di Xivry, O. Pfuhl.

B. Hochenergieastrophysik

Dr. R. Andritschke, Dr. I. Balestra, Prof. Dr. W. Becker, B. Boller, Prof. Dr. T. Boller, Dr. A. Bongiorno, Dr. H. Bräuninger, B. Bribian-Sanchez, Dr. M. Brightman, Dr. H. Brunner, Dr. M. Brusa, Dr. W. Burkert, Dr. V. Burwitz, Dr. W. Collmar, Dr. G. Coppa, Dr. K. Dennerl, Dr. R. Diehl, Dr. D. Dwelly, Dr. J. Elbs, Dipl.-Ing. J. Eder, Dr. R. Fassbender, Dr. R. Filgas, Dr. A. Finoguenov, Dr. S. Foley, W. Frankenhuizen, Dr. M. Freyberg, Dr. P. Friedrich, A. Gaida, A. Georgakakis, Dr. J. Greiner, Dr. F. Guglielmetti, Dr. F. Haberl, A. Hahn, K. Hartmann, Dipl.-Math. G. Hartner, Dr. M. Henze, Dr. A. von Kienlin, Dr. N. Kimmel, J.W. Kim, L. Koceluch, Dr. S. Komossa, Dr. N. Meidinger, Dr. A. Merloni, Dr. M. Mühlegger, Dr. M. Nardini, Dipl.-Phys. E. Pfeffermann, Dr. W. Pietsch, Dr. P. Predehl, Dr. A. Rau, Dr. M. Rovilos, Dr. S. Savaglio, Dr. P. Schady, G. Schaller, Dr. F. Schopper, Dr. A. Stefanescu, Dr. A. Strong, Prof. Dr. L. Strüder, Dr. J. Treis, Dr. W. Voges, M. Vongehr, S. Walther, Dr. A. Winter, Dr. X.-L. Zhang.

Doktoranden/Diplomanden/Master/Bachelor:

A. Bähr, M.G. Bernhardt, J. Buchner, D. Burlon, A. Buron, R. Capelli, P. Chaudhary, S. Granato, J. Elliot, G. Erfanianfar, V. Fedl, R. Filgas, M. Fürmetz, D. Gruber, J. Holland, L.-T. Hsu, C. Jocham, K. Kretschmer, T. Lauf, P. Maggi, M. Mirkazemi, A. Nastasi, F. Olivares, T. Prinz, A. Reichert, G. Schmaler, R. Sturm, V. Sudilovsky, R. Suhada, A. Weissmann, F. Ziparo.

C. Theorie und Komplexe Plasmen

Dr. T. Antonova, Dr. T. Aschenbrenner, Dr. P. Badyopadhyay, Dr. P. Brandt, Dr. W. Bunk, Dr. M. Chaudhuri, Dr. L. Couëdel, Dipl.-Phys. H. Höfner, Dr. L. Hou, Dr. A. Ivlev, Dr. S. Khrapak, Dr. B. Klumov, Dr. C. Knapek, Dr. U. Konopka, Dr. M. Kretschmer, A. Langer, Dr. Y. Li, Dr. S. Mitic, Dr. R. Monetti, Dr. T. Nosenko, Dr. M. Pustylnik, Dr. Ch. Räth, Dr. M. Rubin-Zuzic, Dr. H. Scheingraber, Dr. M. Schwabe, Dr. S. Shimizu, Dr. T. Shimizu, Dr. I. Sidorenko, Dr. R. Sütterlin, Dr. L. Taghizadeh, Dr. M. Thoma, Dr. H. Thomas, Dr. V. Yaroschenko, Dr. S. Zhdanov, Dr. J. Zimmermann.

Doktoranden/Diplomanden/Master/Bachelor:

G. Avvisati, V. Boxhammer, C. Du, M. Fink, S. Giodini, R. Heidemann P. Huber, J. Jeon, K. Jiang, T. Klämpfl, J. Köritzer, J. List, H. Modest, S. Mihatsch, T. Röcker, G. Rossmanith, A. Semenov, L. Wörner.

D. Optische und Interpretative Astronomie

C. Aswathanarayan, Dr. A. Bode, Prof. Dr. A. Burkert, Dr. C. Dalla Vecchia, Dr. F. De Lorenzi, Dr. C. Dobbs, Dr. N. Drory, Dr. F. Durier, Dr. P. Erwin, Dr. V. Gaibler, Dr. N. Geis, Prof. Dr. O. Gerhard, Dr. F. Grupp, Dr. U. Hopp, Dr. J. Johnson, Dr. V. Junk, C. Ingram, Dr. J. Johnson, Dr. R. Katterloher, Dr. S. Khochfar, Prof. Dr. J. Kormendy, Dr. M. Krause, Dr. O. Lahav, Dr. M. Landriau, Dr. U. Maio, Dr. I. Martinez-Valpuesta, Dr. X. Mazzalay, L. Morganti, Dr. B. Muschielok, Dr. E. Neistein, Dr. J.-P. Paardekooper, Dr. S. Phleps, L. Powell, Dr. R. Saglia, Dr. K. Saha, Dr. A. Sanchez, Dr. M. Schartmann, Dr. R. Senger, Dr. P. Steele, Dr. J. Thomas, Dr. G. Ventimiglia, Prof. Dr. J. Weller, Dr. M. Williams, Dr. D. Wilman, Dr. X. Wu, Dr. H. Ziaeepour.

Doktoranden/Diplomanden/Master/Bachelor:

B. Agarwal, A. Beck, M. Behrendt, S. Bogner, A. Brucalassi, M. Cappetta, S. Chatzopolous, J. Connelly, C. Dobbs, M. Fabricius, M. Häuser, R. Kosyra, H. Kotarba, S. Kulkarni, A. Longobardi, K. Markovic, A. Monna, L. Morganti, E. Ntormousi, M. Opitsch, L. Oser, S. Pekruhl, G. Rosotti, S. Rusli, H. Schlagenhaufer, C. Strübig, P. Wulstein, J. Zendejas.

E. Ingenieurbereiche und Werkstättten

a) Elektrotechnik

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

b) Mechanik

R. Bayer, T. Blasi, J. Brandstetter, A. Brara, B. Budau, S. Czempiel, C. Deysenroth, M. Deysenroth, Dipl-Ing. (FH) K. Dittrich, J. Eibl, P. Feldmeier, J. Gahl, Dipl.-Phys. H. Gemperlein, A. Goldbrunner, J. Hartwig, Dipl-Ing. (FH) M. Haug, M. Honsberg, F.-X. Huber, Dipl.-Ing. H. Huber, S. Huber, H.J. Kestler, J. Liebhardt, R. Mayr, R. Mayr-Ihbe, Dipl-Ing. (FH) B. Mican, Dipl.-Ing. (FH) D. Pietschner, M. Plangger, C. Rohe, R. Sandmair, A. Schneider, P. Schnell, C. Schreib, Dipl-Ing. J. Schubert, W. Schunn, F. Soller, G. Stadler, P. Straube, R. Strecker, Dipl-Ing. M. Thiel, Dipl.-Ing. L. Tiedemann.

c) Auszubildende

D. Cziasto, M. Greil, M. Hiefinger, D. Huber, T. Kratschmann, F. Mihé, M. Müller, A. Reinold, S. Senftleben, M. Wachendorf.

F. Zentrale DV-Gruppe

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

G. Öffentlichkeitsarbeit

Dr. W. Collmar, Dr. H. Hämmerle.

H. Publikationsunterstützung

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

I. Bibliothek

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

J. Verwaltung und Allgemeine Dienste

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

1.2 Gäste

Im Jahr 2011 besuchten 50 Gäste das MPE, mit Besuchszeiten von einigen Tagen bis zu einigen Monaten.

2 Preise, Auszeichnungen, Berufungen

Boller, Th.: Michael und Biserka Baum-Preis für herausragende physikalische Arbeit und Lehrtätigkeit durch den Frankfurter Förderverein für physikalische Grundlagenforschung, Frankfurt, Germany, Mai 2011.

Boller, Th.: Member of the "Academia Europaea" - The Academy of Europe, Physics and Engineering Section, Oktober 2011.

Genzel, Reinhard: Karl-Schwarzschild-Preis, Astronomische Gesellschaft, Heidelberg, Germany, September 2011.

Genzel, R.: West Lecture, Queens University Belfast, Belfast, Nordirland, UK, Juli 2011.

Kretschmer, M.: Best Poster Award 4th International Symposium on Physical Sciences in Space (ISPS-4), ESA/DLR, Juli 2011.

Lüst, R.: Ehrendoktor, Jacobs Universtät Bremen, Germany, September 2011.

Morfill, G.: James-Clerk-Maxwell-Preis, Amerikanische Physikalische Gesellschaft, Salt Lake City, USA, November 2011.

Savaglio, S.: "Made in Calabria"-Auszeichnung, Rome, Italy, Februar 2011.

Schwabe, M.: Promotionspreis, Europäische Physikalische Gesellschaft, Strasbourg, France, Juni 2011.

3 Lehrtätigkeit

Becker, W.: Astrophysikalisches Doktorandenseminar mit den Studenten der *International Max-Planck Research School on Astrophysics*, LMU München

Bender, R.: Astronomisches Hauptseminar zur Astrophysik, LMU München WS 10/11; Astrophysikalisches Praktikum "A" und Übungen, LMU München WS 10/11; Astrophysikalisches Praktikum "B" und Übungen, LMU München WS 10/11; Astronomisches Kolloquium, LMU München WS 10/11, SS 11, WS 11/12; Extragalactic Journal Club, LMU München WS 10/11; Extragalactic Group Seminar, LMU München WS 10/11 und WS 11/12; Einführung in die fortgeschrittene Astrophysik II, LMU München SS 11; Ergänzung zur Vorlesung P4.1 "Einführung in die fortgeschrittene Astrophysik II", LMU München SS 11; Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert, "Tools in modern astrophysics", LMU München SS 11 und WS 11/12; "Project Seminar: Galaxies", Projektseminar aus dem Bereich der Kosmologie, der großräumigen Strukturen, der Struktur von Galaxien und der Dunklen Materie sowie der Dunklen Energie, der Schwarzen Löcher und der Gravitationslinsen, LMU München SS 11; Grundlagen der fortgeschrittenen Astrophysik, LMU München WS 10/11 (mit Saglia); Ergänzung zur Vorlesung P1.1 "Grundlagen der fortgeschrittenen Astrophysik", LMU München WS 11/12

Böhringer, H.: Introduction to Cosmology and the Study of Large-Scale Structure, IMPRS Garching WS 10/11 und 11/12

Boller, Th.: Einführung in die Astronomie, J.-W. von Goethe Univ. Frankfurt SS 11; Physik Aktiver Galaxien, J.-W. von Goethe Univ. Frankfurt WS 11/12

Diehl, R.: Seminar on "Nuclei in the Cosmos", TU München WS 10/11, WS 11/12 (mit Professoren der TUM, LMU und MPA); Observational High-Energy Astrophysics, TU München SS 11

Eisenhauer, F.: Einführung in die Astrophysik, TU München WS 10/11, WS 11/12

Ivlev, A.: Complex Plasmas - Plasma State of soft Matter, Heinrich-Heine-Universität Düsseldorf SS 11

Kanbach, G.: Hochenergie Astrophysik, Universität Würzburg, SS 11

Poglitsch, A.: Star Formation Across the Universe: Instrumentation Techniques - Scientific Background, Summer School Alpbach 2011

Saglia, R.: Grundlagen der fortgeschrittenen Astrophysik, LMU München WS 10/11 (mit R. Bender);

Thoma, M.: Theoretische Plasmaphysik, Univ. Gießen WS 10/11

Thoma, M. (mit Kretschmer, M. und Schwabe, M.): Fortgeschrittenenpraktikum III und IV - Versuch 03: Plasmakristall, TU München WS 10/11, SS 11, WS 11/12

4 Wissenschaftliche Arbeiten

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

5 Akademische Abschlussarbeiten

5.1 Bachelor-, Master-, Diplomarbeiten

Gettkandt, J.: Die Suche nach extrasolaren Planeten mittels Astrometrie (Bachelor-Arbeit). Ludwig-Maximilians-Universität München 2011.

Kister, C.: Design of the metrology laser injection unit of the VLTI instrument GRAVITY (Diplom-Arbeit). Ludwig-Maximilians-Universität München 2011.

Moch, D.: Characterization of the differential aberrations of the VLTI beam train (Diplom-Arbeit). Ludwig-Maximilians-Universität München 2011.

Opitsch, M.: Black holes in galaxies. A look at scaling relations between supermassive black hole mass and host galaxy properties (Master-Arbeit). Ludwig-Maximilians-Universität München 2011.

Zeidler, P.: Messung und Instrumentierung zur Bestimmung der physikalischen Eigenschaften von extrasolaren Planeten (Bachelor-Arbeit). Ludwig-Maximilians-Universität München 2011.

5.2 Dissertationen

Chaudhary, P.: Properties of the integrated spectrum of active galactic nuclei. Ludwig-Maximilians-Universität-München 2011.

Genel, S.: The Formation of Dark Matter Halos and High-Redshift Galaxies. Ludwig-Maximilians-Universität München 2011.

Guglielmetti, F.G.: Background-Source separation in astronomical images with Bayesian Probability Theory. Ludwig- Maximilians-Universität München 2010.

Henze, M.: Optical Novae as Supersoft X-ray Sources in the Andromeda Galaxy. Technische Universität München 2011.

Kretschmer, K.A.: High-Resolution Spectroscopy of Astrophysical Gamma-Ray Lines. Technische Universität München 2011.

5.3 Habilitationen

Ivlev, A.V.: Interdisciplinary Complex Plasma Research. Heinrich-Heine-Universität Düsseldorf 2011.

Eisenhauer, F.: The Galactic Center at High Angular Resolution - Techniques and Observations. Technische Universität München 2011.

6 Tagungen, Projekte am Institut und Beobachtungszeiten

6.1 Tagungen und Veranstaltungen

HIPE Forum 2011, Garmisch-Partenkirchen, Germany, 28.-30.6. 2011, Organisation: E. Sturm, E. Wieprecht, J. Riedinger.

Star Formation in Galaxies: The Herschel Era, Ringberg Castle, Germany, 19.-25.6.2011, Organisation: D. Lutz, L. Tacconi, E. Sturm.

Adaptive Optics for Extremely Large Telescopes II, Victoria, Canada, 25.-30.9.11, Organisation: J.-P. Veran, T. Fusco, Y. Clenet, A. Bouchez, R. Conan, J.-G. Cuby, R. Davies, B. Ellerbroek, S. Esposito, Y. Hayano, P. Hickson, N. Hubin, M. Kasper, M. Kenworthy, O. Lardiere, M. Hart, C. Max, R. Myers, F. Rigaut, T. Rimelle, N. Thatte, M. Troy.

Star formation across space and time: Frontier science with the LBT and other large telescopes, Tucson, AZ, USA, 30.3.-2.4.2011, Organisation: X. Fan, R. Green, T. Henning, R. Kennicutt, S. Kim, J. Kurk, R. Maiolino, C. Scarlata, T. Thompson, T. Thuan.

Kick-Off Meeting of the DFG priority program 1573, Freising, Germany, 2.-3.5.2011, Organisation: M. Schartmann, A. Burkert, R. Klessen.

Herschel Calibration Steering Group Meeting, MPE, Garching, Germany, 9.9.2011, Organisation: T.G. Müller.

Gas in Galaxies: from Cosmic Web to Molecular Clouds, Kloster Seeon, Germany, 14.-18.6.2011, Organisation: G. Kauffmann (co-chair), L. Staveley-Smith (co-chair), B. Catinella, E. de Blok, T. Heckman, B. Koribalski, M. Putman, J. Schaye, D. Schiminovich, L. Tacconi, M. Verheijen.

The Physics of Galaxy Formation, Durham, UK, 18.-22.7.2011, Organisation: C. Frenk (co-chair), S. White (co-chair), S. Ellison, T. Heckman, L. Hernquist, R. Ivison, G. Kauffmann, H.-W. Rix, J. Schaye, C. Steidel, L. Tacconi.

Multiwavelength Views of the ISM in High-Redshift Galaxies, Santiago, Chile, 27.-30.6.2011, Organisation: J. Wagg (chair), C. de Breuck (co-chair), A. Baker, C. Carilli, L. Infante, R. Ivison, R. Maiolino, A. Peck, D. Riechers, L. Tacconi, F. Walter, T. Wiklind, M. Yun.

Watching Galaxies Grow Up, Ringberg Castle, Germany, 4.-9.12.2011, Organisation: K. Jahnke (co-chair), A. van der Wel (co-chair), E.F. Bell, R. Bower, E. Daddi, J. Dunlop, S. Faber, M. Franx, A. Maccio, R. Maiolino, H.-W. Rix, R. Somerville, C. Steidel, L. Tacconi, P. van Dokkum.

Astronomy with Radioactivities VII, Phillip Island, Victoria, Australia, 1.-3.3.2011, Organisation: R. Diehl, M. Lugaro, D.H. Hartmann, N. Prantzos, M. Newington.

First International eROSITA conference, Garmisch-Partenkirchen, Germany, 17.-20.10.2011, Organisation: A. Merloni (Chair), P. Predehl (co-chair), M. Arnaud, Y.Balega, T. de Zeeuw, G. Evrard, A. Fabian, K. Nandra, S. Sazonov, A. Schwope, R. Sunyaev, Y. Ueda, M. Urry, J. Wilms.

First ATHENA Science Workshop, Garching bei München, Germany, 14.-15.6.2011, Organisation: K. Nandra (chair), X. Barcons, D. Barret, A. Decourchelle, T. Dotani, J.W. den Herder, D. Lumb, G. Matt, L. Piro, S. Sciortino, L. Strüder, M. Watson, N. White, D. Willingale.

EWASS 2011 EAS Symposium: "Combined Ra6.2011". St. Petersburg, Russland. Organisation: G. Paschmann.

Workshop on Particle Acceleration in Cosmic Plasmas, International Space Science Institute, Bern, Switzerland, 16.- 20.5.2011, Organisation: A. Balogh, A. Bykov, R.P.Lin, J. C. Raymond, M. Scholer.

Transport Processes and Accretion in YSOs, Schloss Ringberg, Germany, 7.-11.2.2011, Organization: G.J. Herczeg (chair), R. van Boekel (co-chair), A. Sicilia-Aguilar, S. Fromang, L. Hartmann, T. Henning, S. Matt, J. Muzerolle, A. Reiners, M. van den Ancker.

Formation and Early Evolution of Very Low Mass Stars and Brown Dwarfs, ESO, Garching, Germany, 11.-14.10.2011, Organization: I. Baraffe, M. Bate, A. Burkert, F, Comeron, E. van Dishoeck, G. Herczeg, K. Luhman, M. Petr-Gotzens (co-chair), T. Preibisch, T. Stanke, P. Teixeira, L.Testi (co-chair).

6.2 Projekte und Kooperationen mit anderen Instituten

Australien

Australian National University: Galaxienentstehung.

Monash University: Nukleare Astrophysik.

Swinburne University of Technology, Victoria: Millisecond Pulsars.

University of Western Sydney: Magellanic Clouds.

Belgien

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

Brasilien

Observatorio Nacional: DES.

Centro Brasileiro de Pesquisas: DES.

Universidade Federal do Rio: DES.

Universidad 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 Gammaquel-

len 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.

Deutschland

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

Christian-Albrechts-Universität, Kiel: Komplexe Plasmen.

Dept. Earth and Environmental Sciences of LMU Munich: Raman Spectroscopy.

Dept. of Neuropathology, TU Munich: Raman Spectroscopy; Plasma Medicine.

DLR-Köln Porz: Plasmakristall Experiment; PKE-Nefedov.

European Southern Observatory (ESO), Garching: KMOS Multiobjekt-Spectrograph für VLT; GRAVITY; Galaxienentstehung; ASTRO-WISE; OmegaCAM; MICADO; Nukleare Astrophysik.

Fraunhofer Institut für Festkörpertechnologie, München: ATHENA; eROSITA.

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

Institute of Experimental Oncology, TU Munich: Plasma Medicine.

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.

Laser Zentrum Hannover: Development of advanced Filters for MICADO.

Leibniz Rechenzentrum der Bayerischen Akademie der Wissenschaften, Garching: Label free imaging and Pattern Recognition.

LFM Labor für Mikrozerspanung, Bremenn: Diamond turned optics for GRAVITY.

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

Maier-Leibnitz Laboratorium, Garching: eROSITA.

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

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; eROSITA.

Max-Planck-Institut für Kernphysik: CFEL.

Max-Planck-Institut für Biomedizinische Forschung: CFEL.

Max-Planck-Institut für Komplexe System, Fritz-Haber Institut: CFEL.

Max-Planck-Institut für Biophysische Chemie: CFEL.

Max-Planck-Institut für Radioastronomie, Bonn: ARGOS.

Physikalisch-Technische Bundesanstalt Berlin: eROSITA; SPICA-Safari; TES Bolometer SQUID-Ausleseschaltung.

Städtisches Kilinikum München GmbH, Mikrobiologie Zentrallager Schwabing: Plasmamedizin.

Thüringer Landessternwarte Tautenberg: GROND; Gamma-Ray Bursts.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Plasmamedizin; Nukleare Astrophysik.

Trans MIT, Gießsen: Pulse tube cooler for GRAVITY.

Universität Bochum: Komplexe Plasmen; LUCIFER.

Universität Bonn: Test von Pixeldetektoren für ATHENA; OmegaCAM; ASTRO-WISE; eROSITA, EUCLID.

Universität Düsseldorf: Komplexe Plasmen.

Universität Erlangen: eROSITA.

Universität Greifswald: Komplexe Plasmen.

Universität Hamburg: eROSITA; OPTIMA (Flarestars).

Universität Heidelberg: ATHENA; XFEL.

Universität Jena: Isolierte Neutronensterne; Nukleare Astrophysik.

Universität Kiel: Komplexe Plasmen.

Universität Köln: Galaktisches Zentrum; GRAVITY.

Universität Mannheim: ATHENA; XFEL.

Univesität Regensburg, Department für Dermatology, Uni.-Klinik Regensburg: Plasmamedizin.

Universitätssternwarte Göttingen: OmegaCAM.

Universität Siegen: Compton Kamera.

University of Veterinary Medicine Hannover, Institute for food quality and food safety: Plasma Medicine.

Universität Stuttgart: SOFIA.

Universität Würzburg: AGADE; GRIPS.

Frankreich

CEA, Saclay: INTEGRAL-Spektrometer SPI; Herschel-PACS; CAST; EUCLID; SPICA; SVOM.

Centre d'Etude Spatiale des Rayonnements (UPS), Toulouse: INTEGRAL-Spektrometer SPI.

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

IAP Paris: Nukleare Astrophysik.

Laboratoire d'Astrophysique de Marseille (CNRS): EUCLID; Gamma-Ray Bursts.

IPAG Grenoble: GRAVITY.

OAMP Marseille: Herschel-PACS.

Observatoire de Paris-Meudon: ASTRO-WISE; GRAVITY; MICADO.

Griechenland

University of Crete and Foundation for Research and Technology Hellas (FORTH), Hera-

klion: Ausbau und Betrieb der Skinakas Sternwarte; Untersuchung von windakkretierenden Röntgendoppelsternsystemen; Entwicklung und Einsatz des OPTIMA Photometers; optische Identifikation und Monitoring von Röntgen-AGN; Novae.

Großbritannien

Belfast Queen's University: PanSTARRS.

BRUNEL University: ATHENA.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

Loughborough University, Department of Electronic and Electrical Engineering: Plasma Medicine.

Open University, Milton Keynes: Kataklysmische variable; Novae.

Rutherford Appleton Laboratory, Council for the Central Laboratory of the Research Councils: SIS-Junctions; Komplexe Plasmen.

University of Cambridge: DES; RoPacs.

University College London, MSSL: High Energy Pulsars; EUCLID; DES.

University of Durham: KMOS; PanSTARRS.

University of Cambridge: DES; RoPACS.

University of Edinburgh: DES; KMOS; PanSTARRS.

University of Hertfordshire: RoPACS.

University of Leeds: Komplexe Plasmen.

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

University of Liverpool: Komplexe Plasmen.

University of Nottingham: DES.

University of Portsmouth: DES.

University of Sussex: DES.

University of Southampton: Magellanic Clouds.

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

University Oxford: Komplexe Plasmen; KMOS.

United Kingdom Astronomy Technology Centre (UKATC): EUCLID; KMOS.

Irland

National University of Ireland, Galway: High Time Resolution Astronomy.

University College Dublin, Dublin: Fermi/GBM.

Israel

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

Weizmann Institut, Rehovot: Komplexe Plasmen; Galaktisches Zentrum.

Italien

Brera Astronomical Observatory: Himmelsdurchmusterung Galaxienhaufen; ATHENA.

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

INAF Arcetri: ARGOS; LBT.

INAF Padua: Herschel-PACS; OmegaCam; MICADO; LBT.

INAF Roma: Nukleare Astrophysik.

INAF Trieste: Gamma-Ray Bursts: Fermi/LAT.

INFR Frascati: SIDDHARTA.

Istituto di Fisica dello Spazio Interplanetario (CNR), Frascati: Herschel-PACS.

OAA/LENS Firenze: Herschel-PACS.

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

Politecnico di Milano: rauscharme Elektronik; Röntgendetektorenentwicklung.

University Bologna: EUCLID.

Universität Neapel: Komplexe Plasmen.

Japan

Tokio Institute of Technology (TITECH), Ookayama: ASCA/XMM-Newton Beobachtungen von AGN.

JAXA: PK-3 Plus; PK-4; Plasmalab.

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

Tohuko University: Komplexe Plasmen.

University of Osaka: Astro H; ATHENA CCDs.

Yokohama National University: Komplexe Plasmen.

Kroatien

Ministry of Science and Technology, Zagreb: CAST.

Niederlande

ESTEC, Noordwijk: XMM-Newton-TS-Spiegelkalibration; CCD Entwicklung; Radiation Performance Instrument; INTEGRAL; EUCLID; PK-4.

FOM Institute for Plasma Physics, Rijhuizen: Komplexe Plasmen.

NOVA Leiden: MICADO.

SRON, Utrecht: Chandra-LETG; TES für SPICA/ATHENA.

Sterrewacht Leiden: ASTRO-WISE; OmegaCAM.

University Eindhoven: Komplexe Plasmen; PlasmaLab.

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

Norwegen

Universität Trømsø: Komplexe Plasmen.

Österreich

Universität und TU Wien: Herschel-PACS.

Polen

Nicolaus Copernicus (ZAMK), Torun: Pulsars Astronomical Centers.

University Zielona Gora: OPTIMA.

Portugal

Sim Lissabon: GRAVITY.

Universität Lissabon: Komplexe Plasmen.

Russland

Joint Institute for High Temperatures (JFHT) of the Russian Academy of Science, Moscow:

Plasmakristall Experiment (PKE); PKE-Nefedov; PK-3 Plus; PK-4; Plasmalab; Plasmamedizin.

Institute for Biomedical Problems of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Epidemiology and Microbiology Problems of the Russian Academy of Medical Sciences, Moscow: Plasma Medicine.

Institute for Theoretical and Experimental Biophysics of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Problems of Chemical Physics of the Russian Academy of Sciences, Moscow: Plasma Medicine.

Institute for Physical Chemical Medicine of the Russian Academy of Medical Sciences, Moscow: Plasma Medicine.

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

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

Schweden

University Lund/Observatory: OPTIMA.

University Stockholm: Komplexe Plasmen; Staubdetektion in Fusionsreaktoren.

Schweiz

CERN, Geneva: CAST.

Observatoire de Genève Sauverny, Geneva: ISDC; Nukleare Astrophysik.

Universität Basel: Nukleare Astrophysik.

Spanien

Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas: DES.

ESAC, Madrid: XMM-Newton Science Operations Center; INTEGRAL Science Operations Center.

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

Instituto de Ciencias del Espacio: DES.

Institut de Fisica d'Altes Energies: DES.

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: PanSTARRS.

Türkei

Bogazici University, Istanbul: CAST.

Ukraine

Main National Observatory, Kiev: RoPACS.

Ungarn

Konkoly Observatory: Herschel-PACS.

USA

Argonne National Laboratory: DES.

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

California Inst. of Technology, Pasadena: X-ray survey.

CfA, Cambridge: ATHENA WFI, XMM-Newton/Chandra Kalibration.

Clemson University: Gamma-Ray Bursts; Nukleare Astrophysik.

Fermilab, Batavia: DES.

Harvard University: PanSTARRS.

Institute for Astronomy, Hawaii, Honolulu: Galaxienentstehung; PanSTARRS; NIR Kamera für Wendelstein.

Jet Propulsion Laboratory, Pasadena: EUCLID.

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 Supernovaüberresten.

MIT, Cambridge: ATHENA WFI.

NOAO, Tucson: DES.

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

Naval Research Laboratory: Komplexe Plasmen.

Ohio State University, Columbus: DES; LBT.

Old Dominion University Norfolk, Laser & Plasma engineering Institute: Plasma Medicine.

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

Pennsylvania State University: HETDEX; ATHENA WFI; Swift.

Research Corporation: LBT.

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

Space Telescope Science Institute, Baltimore: Galaxienentstehung.

STC: EUCLID.

Stanford University: DES, Fermi/LAT; Fermi/GBM.

SLAC: CAMP, DES.

Texas A & M University, College Station: DES.

Texas State University, San Marcos: HETDEX.

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

University of California, Berkeley: MPG/UCB-Kollaboration; Fern-Infrarot-Detektoren.

University of California, San Diego: Komplexe Plasmen.

University of California, Santa Cruz: DES.

University of Chicago: DES.

University of Colorado, Boulder: Komplexe Plasmen.

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

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

University of Michigan: DES.

University of Pittsburgh: Galaxienentstehung.

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung.

University of Washington, Seattle: CLUSTER/CIS.

University Space Research Association, Moffett Field: SOFIA.

6.3 Multinationale Projekte

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.

ATHENA – 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.

BOSS – Baryon Oscillation Spectroscopic Survey: 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/Sacklay 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; Instituto Nazionale di Fisica Nucleare Trieste, Italy; Associated Universities Washington, Johns Hopkins University Baltimore, Space Telescope Science Institute Baltimore, USA; Center for Astrophysics Hefei, China.

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

COSMOS – Cosmic Evolution Survey: 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, Universita Padova, Dipartimento di Fisica, Universita 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.

DES – The Dark Energy Survey: LMU München, Excellence Cluster Universe, Germany; The Fermi National Accelerator Laboratory (Fermilab), University of Chicago, NOAO, University of Michigan, University of Pennsylvania, University of Illinois at Urbana-Champaign, Ohio State University, Texas A&M University, University of California Santa Cruz, Stanford University, SLAC National Accelerator Laboratory, The Lawrence Berkeley National Laboratory, Argonne National Laboratory, USA; University College London,

University of Cambridge, University of Edinburgh, University of Portsmouth, University of Sussex, University of Nottingham, UK; Observatorio Nacional, Centro Brasileiro des Pesquisas Fisicas, Universidade Federal do Rio, Brasilien; Instituto de Ciencias dei Espacio, Institut de Fisica d'Altes Energies, Centro de Investigaciones Energeticas Medioambientales y Tecnologicas, Spain.

eROSITA – extended ROentgen Survey with an Imaging Telescope Array: Universität Tübingen, AIP Potsdam, Universität Hamburg, Remeis-Sternwarte Bamberg, MPA Garching, Germany; IKI Moskau, Russia.

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

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

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

FP7 Opticon JRA1 -Adaptive Optics: INAF Padova, INAF Arcetri, Italy; LAM Marseille, LAOG Grenoble; LESIA Paris, ONERA Paris, France; KIS Freiburg, MPIA Heidelberg, Germany; NOVA Leiden, The Netherlands; UKATC Edinburgh; University Durham, UK.

GRAVITY – Instrument for VLT Interferometry: Observatoire de Paris /LESIA, France; MPIA Heidelberg, 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.

INTAS – Cooperation of Western and Eastern European Scientist: France, Germany, Norway, Russia.

ISDC – INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University Southhampton, 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; University de Valencia Burjassot, Spain.

KMOS – 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, Ohio State University, Columbus, Research Corporation 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.

Lucifer (Instrument for LBT): LSW Heidelberg, MPIA, Universität Bochum, Germany.

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

MXT – Microchannel X-Ray Telescope for Gamma-Ray Bursts: CEA, Saclay, France; University of Leicester, England.

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.

OPTIMA: Astrophysikalisches Institut Potsdam, MPI für Astrophysik, Universität Hamburg, Germany; University of Crete, Greece; University Zielona Gora, Poland; University Lund/Observatory, Schweden.

PanSTARRS: MPIA Heidelberg, Germany; University of Hawaii, Harvard University, 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; Okayama University, JAXA-ISAS, Kyoto Institute of Technology, Japan.

PK-4 (Plasma-crystal experiment): JIHT Moscow, Russia; Université d'Orléans CNRS, France; University Stockholm, Schweden, University Napoli, Italy; University Tromsø, Norway; University Liverpool, UK; University Iowa, University Auburn, USA; ESTEC Noordwijk, The Netherlands; DLR Bonn, Germany.

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

Plasmamedizin: Max Planck Innovation GmbH, Dept. of Dermatology, Hospital Schwabing, München, Medizet Dept. Microbiology, Schwabing, München, Dept. of Dermatology, University Hospital Regensburg, Dept. of Neuropathology, TU München, Institute of Experimental Oncology, TU München, University of Veterinary Medicine, Hannover, Dept. Infectiology & Virology, University Heidelberg, Section Crystallography, LMU München, German Aerospace Center (DLR), Cologne, German Aerospace Center (DLR), Bonn, Dept. of Toxicology, TU München, Hospital for ENT, LMU München, Germany; Joint Institute for High Temperatures of RAS, Institute for Biomedical Problems, RAS, Institute for Epidemiology and Microbiology, RAMS, Institute for Theoretical and Experimental Biophysics, RAS, Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Institute for Physical Chemical Medicine, RAMS, "International Legal Aid" Company, Russia; University of California, Berkeley, Old Dominion University, Norfolk, VA, USA; Loughborough University, Leicestershire, ADTEC Europe Ltd., UK.

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

SDSS – Sloan Digital Sky Survey: MPA Garching, MPIA Heidelberg, Germany; Univ. of

Washington, Seattle, Fermi National Accelerator Laboratory, Batavia, Univ. of Michigan, Ann Arbor, Carnegie Mellon Univ., Pittsburgh, Penn State Univ., University Park, Princeton Univ. Observatory, Princeton, The Institute of Advanced Study Princeton, Space Telescope Science Institute, Baltimore, Johns Hopkins Univ. Baltimore, USA.

SPICA-SAFARI: University of Tokyo, ISA/JAXA, Sagamihara, Nagoya University, Japan; SRON, Groningen, TU Delft, The Netherlands; RAL, Dittcot, University of Cardiff, Cambridge University, UK; University of Geneva, ETH Zürich, Switzerland; CEA Grenoble, CESR Toulouse, Sap-CEA Saclay, LAM, Marseille, France; University of Vienna, Austria; MPIA, Heidelberg, PTB, Berlin, Germany; CAB-INTA, Madrid, Spain; IFSI-INAF, Rome, Italy; KU Leuven, Belgium; University of Lethbridge, Canada; NUI Maynooth, Ireland.

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

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

6.4 Projekte mit der Industrie

3d shape GmbH, Erlangen: Metrology for slumped glass mirror study.

ABN GmbH, Neuried: Betreuung der Testanlage PANTER.

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

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

Array Electronics, Engmanting: DAQ development OPTIMA.

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

Bach Research corp, Boulder, USA: Gratings for Lucifer.

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

Berner & Mattner Systemtechnik GmbH, München: PK-4 documents, construction of plasma diagnostics system.

Bonerz engineering, Weiler-Simmerberg: Platinenentwicklung, Elektronikentwicklung.

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

Carl Zeiss, Jena: eROSITA Spiegel und Mandrels.

Cryovac, Troisdorf: Cryogenic Design for GRAVITY.

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

EADS Atrium Munich: Euclid design study.

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

ESL GmbH, Berlin: Fertigung von Leiterplatten.

Euro Hect Pipes, Nivelle, Belgien: Cooling System for eROSITA.

Freyer GmbH, Tuningen: PANTER.

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

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

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

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

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

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

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

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

Kayser-Threde GmbH, München: Hauptkontraktor für Herschel-PACS; Halbleiter-Detektoren Gamma-Astronomie; Plasmakristall-Experiment auf der Internationalen Raumstation; PKE; PK-3 Plus; PK-4; eROSITA-Spiegelsystem.

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

Laserjob GmbH, Grafrath: Entwicklung Röntgenbaffle für eROSITA.

Media Lavio Technologies, Borisio Parini, Italy: eROSITA mirror system.

Menlo Systems, Martinsried: Metrology Laser for GRAVITY.

Newport, Darmstadt: Cryogenic rotation stages for GRAVITY.

PFMA Munich: Mechanical Design for GRAVITY.

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

Physik Instrumente Karlsruhe: Cryogenic Piezo Actuators for GRAVITY.

Scientific Instruments, Tucson, USA: Construction of the 16x16K CCD Mosaic Detector of the Wendelstein Wide Field Camera.

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

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

von Hoerner & Sulger, Schwetzingen: Manufacturing for PK-4.

7 Veröffentlichungen

7.1 In Zeitschriften und Büchern

Abadie, J., B.P. Abbott, R. Abbott, ..., A. von Kienlin, ..., A. Rau, et al.: Search for Gravitational Wave Bursts from Six Magnetars. Ap. J. Lett. 734, L35 (2011).

Abboud, A., S. Send, R. Hartmann, L. Strüder, A. Savan, A. Ludwig, N. Zotov and U. Pietsch: Applications of an energy-dispersive pnCCD for X-ray reflectivity: Investigation of interdiffusion in Fe-Pt multilayers. Physica Status Solidi Applied Research 208, 2601-2607 (2011).

Abdo, A.A., M. Ackermann, M. Ajello, ..., A.W. Strong, et al.: Fermi Large Area Telescope Observations of Two Gamma-Ray Emission Components from the Quiescent Sun. Ap. J. 734, 116 (2011).

Abdo, A.A., M. Ackermann, M. Ajello, ..., A. von Kienlin, et al.: Detection of High-energy Gamma-Ray Emission During the X-Ray Flaring Activity in GRB 100728A. Ap. J. Lett. 734, L27 (2011).

Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: The Second Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope. Ap. J. 743, 171 (2011).

Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: A Cocoon of Freshly Accelerated Cosmic Rays Detected by Fermi in the Cygnus Superbubble. Science 334, 1103 (2011).

Ackermann, M., M. Ajello, K. Asano, ..., A. von Kienlin, et al.: Detection of a Spectral Break in the Extra Hard Component of GRB 090926A. Ap. J. 729, 114 (2011).

Ackermann, M., M. Ajello, L. Baldini, ..., A.W. Strong, et al.: Constraints on the Cosmic-ray Density Gradient Beyond the Solar Circle from Fermi γ-ray Observations of the Third Galactic Quadrant. Ap. J. 726, 81 (2011).

Adams, J.J., G.A. Blanc, G.J. Hill, K. Gebhardt, N. Drory, L. Hao, R. Bender, J. Byun, R. Ciardullo, M.E. Cornell, S.L. Finkelstein, A. Fry, E. Gawiser, C. Gronwall, U. Hopp, D. Jeong, A. Kelz, R. Kelzenberg, E. Komatsu, P.J. MacQueen, J. Murphy, P.S. Odoms, M. Roth, D.P. Schneider, J.R. Tufts and C.P. Wilkinson: The HETDEX Pilot Survey. I. Survey Design, Performance, and Catalog of Emission-line Galaxies. Ap. J. Supp. Ser. 192, 5 (2011).

Ade, P.A.R., N. Aghanim, M. Arnaud, ..., J. Weller, et al.: Planck early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. Astron. Astrophys. 536, A8 (2011).

Afonso, P., J. Greiner, E. Pian, S. Covino, D. Malesani, A. Küpcü Yoldaş, T. Krühler, C. Clemens, S. McBreen, A. Rau, D. Giannios and J. Hjorth: GRB 050502B optical afterglow: a jet-break at high redshift. Astron. Astrophys. 526, A154 (2011).

Aghanim, N., M. Arnaud, M. Ashdown, ..., H. Böhringer, ..., J. Weller, et al.: Planck early results. XXVI. Detection with Planck and confirmation by XMM-Newton of PLCK G266.6-27.3, an exceptionally X-ray luminous and massive galaxy cluster at z $\sim$ 1. Astron. Astrophys. 536, A26 (2011).

Aguilar, M., J. Alcaraz, J. Allaby, ..., J. Trümper, et al.: Isotopic Composition of Light Nuclei in Cosmic Rays: Results from AMS-01. Ap. J. 736, 105 (2011).

Agüeros, M.A., B. Posselt, S.F. Anderson, P. Rosenfield, F. Haberl, L. Homer, B. Margon, E.R. Newsom and W. Voges: No Confirmed New Isolated Neutron Stars in the SDSS Data Release 4. Astron. J. 141, 176 (2011).

Aihara, H., C. Allende Prieto, D. An, ..., S. Phleps, et al.: The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III. Ap. J. Supp. Ser. 193, 29 (2011).

Alatalo, K., L. Blitz, L.M. Young, T.A. Davis, M. Bureau, L.A. Lopez, M. Cappellari, N. Scott, K.L. Shapiro, A.F. Crocker, S. Martín, M. Bois, F. Bournaud, R.L. Davies, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, J. Falcón-Barroso, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, P. Serra and A. Weijmans: Discovery of an Active Galactic Nucleus Driven Molecular Outflow in the Local Early-type Galaxy NGC 1266. Ap. J. 735, 88 (2011).

Alig, C., A. Burkert, P.H. Johansson and M. Schartmann: Simulations of direct collisions of gas clouds with the central black hole. Mon. Not. R. Astron. Soc. 412, 469-486 (2011).

Allevato, V., A. Finoguenov, N. Cappelluti, T. Miyaji, G. Hasinger, M. Salvato, M. Brusa, R. Gilli, G. Zamorani, F. Shankar, J.B. James, H.J. McCracken, A. Bongiorno, A. Merloni, J.A. Peacock, J. Silverman and A. Comastri: The XMM-Newton Wide Field Survey in the COSMOS Field: Redshift Evolution of AGN Bias and Subdominant Role of Mergers in Triggering Moderate-luminosity AGNs at Redshifts up to 2.2. Ap.

J. 736, 99 (2011).

Altay, G., T. Theuns, J. Schaye, N.H.M. Crighton and C. Dalla Vecchia: Through Thick and Thin - HI Absorption in Cosmological Simulations. Ap. J. Lett. 737, L37 (2011).

Ammons, S.M., D.J. Rosario, D.C. Koo, A.A. Dutton, J. Melbourne, C.E. Max, M. Mozena, D.D. Kocevski, E.J. McGrath, R.J. Bouwens and D.K.Magee: AGN Unification at z $\sim$ 1: u - R Colors and Gradients in X-Ray AGN Hosts. Ap. J. 740, 3, (2011).

Andersson, K., B.A. Benson, P.A.R. Ade, ..., J.J. Mohr, et al.: X-Ray Properties of the First Sunyaev-Zel'dovich Effect Selected Galaxy Cluster Sample from the South Pole Telescope. Ap.J. 738, 48 (2011).

Annaratone, B.M., A.V. Ivlev, V.E. Fortov, A.G. Khrapak, S.A. Khrapak, V.I. Molotkov and G.E. Morfill: Complex Plasmas With Rodlike Particles. IEEE Trans. Plasma Sci. 39, 2732-2733 (2011).

Arasa, C., S. Andersson, H.M. Cuppen, E.F. van Dishoeck and G.J. Kroes: Molecular dynamics simulations of D2O ice photodesorption. Journal of Chemical Physics 134, 164503 (2011).

Arik, M., S. Aune, K. Barth, ..., H. Bräuninger, et al.: Search for Sub-eV Mass Solar Axions by the CERN Axion Solar Telescope with He3 Buffer Gas. Phys. Rev. Lett. 107, 261302 (2011).

Ashby, M.L.N., S. Mahajan, H.A. Smith, S.P. Willner, G.G. Fazio, S. Raychaudhury, A. Zezas, P. Barmby, P. Bonfini, C. Cao, E. González-Alfonso, D. Ishihara, H. Kaneda, V. Lyttle, S. Madden, C. Papovich, E. Sturm, J. Surace, H. Wu and Y.-N. Zhu: The Star Formation Reference Survey. I. Survey Description and Basic Data. Publ. Astron. Soc. Pac. 123, 1011-1029 (2011).

Assef, R.J., K.D. Denney, C.S. Kochanek, ..., N. Ageorges, ..., P. Buschkamp,..., H. Gemperlein, ..., R. Hofmann, et al.: Black Hole Mass Estimates Based on C IV are Consistent with Those Based on the Balmer Lines. Ap. J. 742, 93 (2011).

Balaguera-Antolínez, A., A.G. Sánchez, H. Böhringer, C. Collins, L. Guzzo and S. Phleps: The REFLEX II galaxy cluster survey: power spectrum analysis. Mon. Not. R. Astron. Soc. 413, 386-400 (2011).

Balogh, M.L., S.L. McGee, D.J. Wilman, A. Finoguenov, L.C. Parker, J.L. Connelly, J.S. Mulchaey, R.G. Bower, M. Tanaka and S. Giodini: Direct observational evidence for a large transient galaxy population in groups at $0.85 < z < 1$. Mon. Not. R. Astron. Soc. 412, 2303-2317 (2011).

Barnard, R., M. Garcia, S. Murray, N. Nooraee and W. Pietsch: Observations of the recurrent M 31 transient XMMU J004215.8+411924 with Swift, Chandra, HST, and Einstein. Astron. Astrophys. 526, A50 (2011).

Barsukova, E.A., V.P. Goranskij, K. Hornoch, S. Fabrika, W. Pietsch, O. Sholukhova and A.F. Valeev: The first spectroscopically confirmed Mira star in M33. Mon. Not. R. Astron. Soc. 413, 1797-1802 (2011).

Bast, J.E., J.M. Brown, G.J. Herczeg, E.F. van Dishoeck and K.M. Pontoppidan: Single peaked CO emission line profiles from the inner regions of protoplanetary disks. Astron. Astrophys. 527, A119 (2011).

Berta, S., B. Magnelli, R. Nordon, D. Lutz, S. Wuyts, B. Altieri, P. Andreani, H. Aussel, H. Castañeda, J. Cepa, A. Cimatti, E. Daddi, D. Elbaz, N.M. Förster Schreiber, R. Genzel, E. Le Floc'h, R. Maiolino, I. Pérez-Fournon, A. Poglitsch, P. Popesso, F. Pozzi, L. Riguccini, G. Rodighiero, M. Sanchez-Portal, E. Sturm, L.J. Tacconi and I. Valtchanov: Building the cosmic infrared background brick by brick with Herschel/PEP. Astron. Astrophys. 532, A49 (2011).

Bhayani, S. and K. Nandra: On the apparent absence of broad iron lines in Seyfert galaxies.

Mon. Not. R. Astron. Soc. 416, 629-636 (2011).

Biffi, V., K. Dolag and H. Böhringer: Velocity structure diagnostics of simulated galaxy clusters. Mon. Not. R. Astron. Soc. 413, 573-584 (2011).

Bissaldi, E., A. von Kienlin, C. Kouveliotou, M.S. Briggs, V. Connaughton, J. Greiner, D. Gruber, G. Lichti, P.N. Bhat, M. Burgess, V. Chaplin, R. Diehl, G.J. Fishman, G. Fitzpatrick, S. Foley, M.H. Gibby, M.M. Giles, A. Goldstein, S. Guiriec, A.J. van der Horst, R.M. Kippen, L. Lin, S. McBreen, C.A. Meegan, W.S. Paciesas, R.D. Preece, A. Rau, D. Tierney and C. Wilson-Hodge: First-year Results of Broadband Spectroscopy of the Brightest Fermi-GBM Gamma-Ray Bursts. Ap. J. 733, 97 (2011).

Bjerkeli, P., R. Liseau, B. Nisini, M. Tafalla, M. Benedettini, P. Bergman, O. Dionatos, T. Giannini, G. Herczeg, K. Justtanont, B. Larsson, C. McOey, M. Olberg and A.O.H. Olofsson: Herschel observations of the Herbig-Haro objects HH 52-54. Astron. Astrophys. 533, A80 (2011).

Blanc, G.A., J.J. Adams, K. Gebhardt, G.J. Hill, N. Drory, L. Hao, R. Bender, R. Ciardullo, S.L. Finkelstein, A.B. Fry, E. Gawiser, C. Gronwall, U. Hopp, D. Jeong, R. Kelzenberg, E. Komatsu, P. MacQueen, J.D. Murphy, M.M. Roth, D.P. Schneider and J. Tufts: The HETDEX Pilot Survey. II. The Evolution of the Lyα Escape Fraction from the Ultraviolet Slope and Luminosity Function of $1.9 < z < 3.8$ LAEs. Ap. J. 736, 31 (2011).

Bluck, A.F.L., C.J. Conselice, O. Almaini, E.S. Laird, K. Nandra and R. Grützbauch: On the co-evolution of supermassive black holes and their host galaxies since $z = 3$. Mon. Not. R. Astron. Soc. 410, 1174-1196 (2011).

Bogdanov, S., M. van den Berg, M. Servillat, C.O. Heinke, J.E. Grindlay, I.H. Stairs, S.M. Ransom, P.C.C. Freire, S. Bégin and W. Becker: Chandra X-ray Observations of 12 Millisecond Pulsars in the Globular Cluster M28. Ap. J. 730, 81 (2011).

Bois, M., E. Emsellem, F. Bournaud, K. Alatalo, L. Blitz, M. Bureau, M. Cappellari, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: The ATLAS3D project - VI. Simulations of binary galaxy mergers and the link with fast rotators, slow rotators and kinematically distinct cores. Mon. Not. R. Astron. Soc. 416, 1654-1679 (2011).

Boller, T., P. Schady and T. Heftrich: XMM-Newton, Swift, and ROSAT Observations of LBQS 0102-2713. Ap. J. Lett. 731, L16 (2011).

Boogert, A.C.A., T.L. Huard, A.M. Cook, J.E. Chiar, C. Knez, L. Decin, G.A. Blake, A.G.G.M. Tielens and E.F. van Dishoeck: Ice and Dust in the Quiescent Medium of Isolated Dense Cores. Ap. J. 729, 92 (2011).

Boone, F., D. Schaerer, R. Pelló, D. Lutz, A. Weiss, E. Egami, I. Smail, M. Rex, T. Rawle, R. Ivison, N. Laporte, A. Beelen, F. Combes, A.W. Blain, J. Richard, J.-P. Kneib, M. Zamojski, M. Dessauges-Zavadsky, B. Altieri, P. van der Werf, M. Swinbank, P.G. Pérez-González, B. Clement, R. Nordon, B. Magnelli and K.M. Menten: Far-infrared constraints on the contamination by dust-obscured galaxies of high-z dropout searches. Astron. Astrophys. 534, A124 (2011).

Bordoloi, R., S.J. Lilly, C. Knobel, ..., I. Balestra, ..., A. Bongiorno, et al.: The Radial and Azimuthal Profiles of Mg II Absorption around $0.5 < z < 0.9$ zCOSMOS Galaxies of Different Colors, Masses, and Environments. Ap. J. 743, 10 (2011).

Bouchet, L., A.W. Strong, T.A. Porter, I.V. Moskalenko, E. Jourdain and J.-P. Roques: Diffuse emission measurement with INTEGRAL/SPI as indirect probe of cosmic-ray electrons and positrons. Ap. J. 739, 29-43 (2011).

Braig, C., P. Predehl and E.-B. Kley: Efficient extreme ultraviolet transmission gratings for plasma diagnostics. Optical Engineering 50, 066501 (2011).

Brandt, P., A.V. Ivlev and G.E. Morfill: Weakly anisotropic and string fluid phases in magnetorheological systems. Journal of Magnetism and Magnetic Materials 323, 1368-1371 (2011).

Brenneman, L.W., C.S. Reynolds, M.A. Nowak, R.C. Reis, M. Trippe, A.C. Fabian, K. Iwasawa, J.C. Lee, J.M. Miller, R.F. Mushotzky, K. Nandra and M. Volonteri: The Spin of the Supermassive Black Hole in NGC 3783. Ap. J. 736, 103 (2011).

Briggs, M.S., V. Connaughton, C. Wilson-Hodge, R.D. Preece, G.J. Fishman, R.M. Kippen, P.N. Bhat, W.S. Paciesas, V.L. Chaplin, C.A. Meegan, A. von Kienlin, J. Greiner, J.R. Dwyer and D.M. Smith: Electron-positron beams from terrestrial lightning observed with Fermi GBM. Geophys. Res. Lett. 38, 2808 (2011).

Brightman, M. and K. Nandra: An XMM-Newton spectral survey of 12 μm selected galaxies - I. X-ray data. Mon. Not. R. Astron. Soc. 413, 1206-1235 (2011).

Brightman, M. and K. Nandra: An XMM-Newton spectral survey of 12 μm selected galaxies - II. Implications for AGN selection and unification. Mon. Not. R. Astron. Soc. 414, 3084-3104 (2011).

Buat, V., E. Giovannoli, S. Heinis, V. Charmandaris, D. Coia, E. Daddi, M. Dickinson, D. Elbaz, H.S. Hwang, G. Morrison, K. Dasyra, H. Aussel, B. Altieri, H. Dannerbauer, J. Kartaltepe, R. Leiton, G. Magdis, B. Magnelli and P. Popesso: GOODS-Herschel: evidence of a UV extinction bump in galaxies at z $>$ 1. Astron. Astrophys. 533, A93 (2011).

Buckley-Geer, E.J., H. Lin, E.R. Drabek, S.S. Allam, D.L. Tucker, R. Armstrong, W.A. Barkhouse, E. Bertin, M. Brodwin, S. Desai, J.A. Frieman, S.M. Hansen, F.W. High, J.J. Mohr, Y.T. Lin, C.C. Ngeow, A. Rest, R.C. Smith, J. Song and A. Zenteno: The Serendipitous Observation of a Gravitationally Lensed Galaxy at z = 0.9057 from the Blanco Cosmology Survey: The Elliot Arc. Ap. J. 742, 48 (2011).

Burgess, J.M., R.D. Preece, M.G. Baring, M.S. Briggs, V. Connaughton, S. Guiriec, W.S. Paciesas, C.A. Meegan, P.N. Bhat, E. Bissaldi, V. Chaplin, R. Diehl, G.J. Fishman, G. Fitzpatrick, S. Foley, M. Gibby, M. Giles, A. Goldstein, J. Greiner, D. Gruber, A.J. van der Horst, A. von Kienlin, M. Kippen, C. Kouveliotou, S. McBreen, A. Rau, D. Tierney and C. Wilson-Hodge: Constraints on the Synchrotron Shock Model for the Fermi GRB 090820A Observed by Gamma-Ray Burst Monitor. Ap. J. 741, 24 (2011).

Burlon, D., M. Ajello, J. Greiner, A. Comastri, A. Merloni and N. Gehrels: Three-year Swift-BAT Survey of Active Galactic Nuclei: Reconciling Theory and Observations?. Ap. J. 728, 58 (2011).

Campisi, M.A., U. Maio, R. Salvaterra and B. Ciardi: Population III stars and the long gamma-ray burst rate. Mon. Not. R. Astron. Soc. 416, 2760-2767 (2011).

Cannon, J.M., R. Giovanelli, M.P. Haynes, S. Janowiecki, A. Parker, J.J. Salzer, E.A.K. Adams, E. Engstrom, S. Huang, K.B.W. McQuinn, J. Ott, A. Saintonge, E.D. Skillman, J. Allan, G. Erny, P. Fliss and A. Smith: The Survey of H I in Extremely Low-mass Dwarfs (SHIELD). Ap. J. Lett. 739, L22 (2011).

Capelli, R., R.S. Warwick, D. Porquet, S. Gillessen and P. Predehl: Fe Kα line emission from the Arches cluster region - evidence for ongoing particle bombardment?. Astron. Astrophys. 530, A38 (2011).

Capelli, R., R.S. Warwick, N. Cappelluti, S. Gillessen, P. Predehl, D. Porquet and S. Czesla: Discovery of X-ray flaring activity in the Arches cluster. Astron. Astrophys. 525, L2 (2011).

Cappellari, M., E. Emsellem, D. Krajnović, R.M. McDermid, N. Scott, G.A. Verdoes Kleijn, L.M. Young, K. Alatalo, R. Bacon, L. Blitz, M. Bois, F. Bournaud, M. Bureau, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, P. Serra and A.-M. Weij-

mans: The ATLAS3D project - I. A volume-limited sample of 260 nearby early-type galaxies: science goals and selection criteria. Mon. Not. R. Astron. Soc. 413, 813-836 (2011).

Cappellari, M., E. Emsellem, D. Krajnović, R.M. McDermid, P. Serra, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, R.L. Davies, T.A. Davis, P.T. de Zeeuw, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, A.-M. Weijmans and L.M. Young: The ATLAS3D project - VII. A new look at the morphology of nearby galaxies: the kinematic morphology-density relation. Mon. Not. R. Astron. Soc. 416, 1680-1696 (2011).

Carlstrom, J.E., P.A.R. Ade, K.A. Aird, ..., J.J. Mohr, et al.: The 10 Meter South Pole Telescope. Publ. Astron. Soc. Pac. 123, 568-881 (2011).

Carmona, A., G. van der Plas, M.E. van den Ancker, M. Audard, L.B.F.M. Waters, D. Fedele, B. Acke and E. Pantin: A survey for near-infrared H2 emission in Herbig Ae/Be stars: emission from the outer disks of HD 97048 and HD 100546. Astron. Astrophys. 533, 39-55 (2011).

Carry, B., D. Hestroffer, F.E. de Meo, A. Thirouin, J. Berthier, P. Lacerda, B. Sicardy, A. Doressoundiram, C. Dumas, D. Farrelly and T.G. Müller: Integral-field spectroscopy of (90482) Orcus-Vanth. Astron. Astrophys. 534, A115 (2011).

Case, G.L., M.L. Cherry, C.A. Wilson-Hodge, A. Camero-Arranz, J.C. Rodi, V. Chaplin, M.H. Finger, P. Jenke, E. Beklen, P.N. Bhat, M.S. Briggs, V. Connaughton, J. Greiner, R.M. Kippen, C.A. Meegan, W.S. Paciesas, R. Preece and A. von Kienlin: First Results from Fermi Gamma-ray Burst Monitor Earth Occultation Monitoring: Observations of Soft Gamma-ray Sources Above 100 keV. Ap. J. 729, 105 (2011).

Casey, C.M., S.C. Chapman, R. Neri, F. Bertoldi, I. Smail, K. Coppin, T.R. Greve, M.S. Bothwell, R.J. Beswick, A.W. Blain, P. Cox, R. Genzel, T.W.B. Muxlow, A. Omont and A.M. Swinbank: Molecular gas in submillimetre-faint, star-forming ultraluminous galaxies at z $>$ 1. Mon. Not. R. Astron. Soc. 415, 2723-2743 (2011).

Caux, E., C. Kahane, A. Castets, A. Coutens, C. Ceccarelli, A. Bacmann, S. Bisschop, S. Bottinelli, C. Comito, F.P. Helmich, B. Lefloch, B. Parise, P. Schilke, A.G.G.M. Tielens, E. van Dishoeck, C. Vastel, V. Wakelam and A. Walters: TIMASSS: the IRAS 16293-2422 millimeter and submillimeter spectral survey. I. Observations, calibration, and analysis of the line kinematics. Astron. Astrophys. 532, A23 (2011).

Chapman, H.N., P. Fromme, A. Barty, ..., N. Kimmel, G. Weidenspointner, P. Holl, ..., D. Pietschner, L. Strüder, G. Hauser, H. Gorke, J. Ullrich, S. Herrmann, G. Schaller, F. Schopper, et al.: Femtosecond X-ray protein nanocrystallography. Nature 470, 73-77 (2011).

Chaudhuri, M., A.V. Ivlev, S.A. Khrapak, H.M. Thomas and G.E. Morfill: Complex plasma - the plasma state of soft matter. Soft Matter 7, 1287-1298 (2011).

Cisternas, M., K. Jahnke, K.J. Inskip, J. Kartaltepe, A.M. Koekemoer, T. Lisker, A.R. Robaina, M. Scodeggio, K. Sheth, J.R. Trump, R. Andrae, T. Miyaji, E. Lusso, M. Brusa, P. Capak, N. Cappelluti, F. Civano, O. Ilbert, C.D. Impey, A. Leauthaud, S.J. Lilly, M. Salvato, N.Z. Scoville and Y. Taniguchi: The Bulk of the Black Hole Growth Since z $\sim$ 1 Occurs in a Secular Universe: No Major Merger-AGN Connection. Ap. J. 726, 57 (2011).

Civano, F., M. Brusa, A. Comastri, M. Elvis, M. Salvato, G. Zamorani, P. Capak, F. Fiore, R. Gilli, H. Hao, H. Ikeda, Y. Kakazu, J.S. Kartaltepe, D. Masters, T. Miyaji, M. Mignoli, S. Puccetti, F. Shankar, J. Silverman, C. Vignali, A. Zezas and A.M. Koekemoer: The Population of High-redshift Active Galactic Nuclei in the Chandra-COSMOS Survey. Ap. J. 741, 91 (2011).

Clemens, C., J. Greiner, T. Krühler, D. Pierini, S. Savaglio, S. Klose, P.M.J. Afonso, R. Filgas, F. Olivares E., A. Rau, P. Schady, A. Rossi, A. Küpcü Yoldaş, A.C. Updike

and A. Yoldaş: GRB 071028B, a burst behind large amounts of dust in an unabsorbed galaxy. Astron. Astrophys. 529, A110 (2011).

Coccato, L., O. Gerhard, M. Arnaboldi and G. Ventimiglia: Stellar population and the origin of intra-cluster stars around brightest cluster galaxies: the case of NGC 3311. Astron. Astrophys. 533, A138 (2011).

Coe, M.J., F. Haberl, R. Sturm, W. Pietsch, L.J. Townsend, E.S. Bartlett, M. Filipovic, A. Udalski, R.H.D. Corbet, A. Tiengo, M. Ehle, J.L. Payne and D. Burton: The XMM-Newton survey of the Small Magellanic Cloud: XMMU J005011.2-730026 = SXP 214, a Be/X-ray binary pulsar. Mon. Not. R. Astron. Soc. 414, 3281-3287 (2011).

Comastri, A., P. Ranalli, K. Iwasawa, C. Vignali, R. Gilli, I. Georgantopoulos, X. Barcons, W.N. Brandt, H. Brunner, M. Brusa, N. Cappelluti, F.J. Carrera, F. Civano, F. Fiore, G. Hasinger, V. Mainieri, A. Merloni, F. Nicastro, M. Paolillo, S. Puccetti, P. Rosati, J.D. Silverman, P. Tozzi, G. Zamorani, I. Balestra, F.E. Bauer, B. Luo and Y.Q. Xue: The XMM Deep survey in the CDF-S. I. First results on heavily obscured AGN. Astron. Astrophys. 526, L9 (2011).

Comisel, H., M. Scholer, J. Soucek and S. Matsukiyo: Non-stationarity of the quasi-perpendicular bow shock: comparison between Cluster observations and simulations. Ann. Geophys., 29, 263-274 (2011).

Cooper, M.C., J.A. Aird, A.L. Coil, M. Davis, S.M. Faber, S. Juneau, J.M. Lotz, K. Nandra, J.A. Newman, C.N.A. Willmer and R. Yan: The DEEP3 Galaxy Redshift Survey: Keck/DEIMOS Spectroscopy in the GOODS-N Field. Ap. J. Supp. Ser. 193, 14 (2011).

Corral, A., R. Della Ceca, A. Caccianiga, P. Severgnini, H. Brunner, F.J. Carrera, M.J. Page and A.D. Schwope: The X-ray spectral properties of the AGN population in the XMM-Newton bright serendipitous survey. Astron. Astrophys. 530, A42 (2011).

Corsi, A., E.O. Ofek, D.A. Frail, D. Poznanski, I. Arcavi, A. Gal-Yam, S.R. Kulkarni, K. Hurley, P.A. Mazzali, D.A. Howell, M.M. Kasliwal, Y. Green, D. Murray, M. Sullivan, D. Xu, S. Ben-ami, J.S. Bloom, S.B. Cenko, N.M. Law, P. Nugent, R.M. Quimby, V. Pal'shin, J. Cummings, V. Connaughton, K. Yamaoka, A. Rau, W. Boynton, I. Mitrofanov and J. Goldsten: PTF 10bzf (SN 2010ah): A Broad-line Ic Supernova Discovered by the Palomar Transient Factory. Ap. J. 741, 76 (2011).

Cortesi, A., M.R. Merrifield, M. Arnaboldi, O. Gerhard, I. Martinez-Valpuesta, K. Saha, L. Coccato, S. Bamford, N.R. Napolitano, P. Das, N.G. Douglas, A.J. Romanowsky, K. Kuijken, M. Capaccioli and K.C. Freeman: Unravelling the origins of S0 galaxies using maximum likelihood analysis of planetary nebulae kinematics. Mon. Not. R. Astron. Soc. 414, 642-651 (2011).

Couëdel, L., S.K. Zhdanov, A.V. Ivlev, V. Nosenko, H.M. Thomas and G.E. Morfill: Wave mode coupling due to plasma wakes in two-dimensional plasma crystals: In-depth view. Phys. Plasmas 18, 083707 (2011).

Cucchiara, A., A.J. Levan, D.B. Fox, ..., T. Krühler, A. Küpcü Yoldaş, ..., J. Greiner, F. Olivares E., et al.: A Photometric Redshift of z $\sim$ 9.4 for GRB 090429B. Ap. J. 736, 7 (2011).

Damjanov, I., R.G. Abraham, K. Glazebrook, P.J. McCarthy, E. Caris, R.G. Carlberg, H.-W. Chen, D. Crampton, A.W. Green, I. Jørgensen, S. Juneau, D. Le Borgne, R.O. Marzke, E. Mentuch, R. Murowinski, K. Roth, S. Savaglio and H. Yan: Red Nuggets at High Redshift: Structural Evolution of Quiescent Galaxies Over 10 Gyr of Cosmic History. Ap. J. Lett. 739, L44 (2011).

Das, P., O. Gerhard, R.H. Mendez, A.M. Teodorescu and F. de Lorenzi: Using NMAGIC to probe the dark matter halo and orbital structure of the X-ray bright, massive elliptical galaxy, NGC 4649. Mon. Not. R. Astron. Soc. 415, 1244-1258 (2011).

da Silva, R.L., J.X. Prochaska, D.J. Rosario, J. Tumlinson and T.M. Tripp: Shining Light on Merging Galaxies. I. The Ongoing Merger of a Quasar with a "Green Valley" Galaxy. Ap. J. 735, 54, (2011).

Dasyra, K.M., L.C. Ho, H. Netzer, F. Combes, B. Trakhtenbrot, E. Sturm, L. Armus and D. Elbaz: A View of the Narrow-line Region in the Infrared: Active Galactic Nuclei with Resolved Fine-structure Lines in the Spitzer Archive. Ap. J. 740, 94 (2011).

Davies, R., N.M. Förster Schreiber, G. Cresci, R. Genzel, N. Bouché, A. Burkert, P. Buschkamp, S. Genel, E. Hicks, J. Kurk, D. Lutz, S. Newman, K. Shapiro, A. Sternberg, L.J. Tacconi and S. Wuyts: How Well Can We Measure the Intrinsic Velocity Dispersion of Distant Disk Galaxies?. Ap. J. 741, 69 (2011).

Davis, T.A., K. Alatalo, M. Sarzi, M. Bureau, L.M. Young, L. Blitz, P. Serra, A.F. Crocker, D. Krajnović, R.M. McDermid, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.-A. Duc, P.T. de Zeeuw, E. Emsellem, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, N. Scott and A.-M. Weijmans: The ATLAS3D project - X. On the origin of the molecular and ionized gas in early-type galaxies. Mon. Not. R. Astron. Soc. 417, 882-899 (2011).

Davis, T.A., M. Bureau, L.M. Young, K. Alatalo, L. Blitz, M. Cappellari, N. Scott, M. Bois, F. Bournaud, R.L. Davies, P.T. de Zeeuw, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, P. Serra and A.-M. Weijmans: The ATLAS3D project - V. The CO Tully-Fisher relation of early-type galaxies. Mon. Not. R. Astron. Soc. 414, 968-984 (2011).

De Lucia, G., F. Fontanot, D. Wilman and P. Monaco: Times, environments and channels of bulge formation in a Lambda cold dark matter cosmology. Mon. Not. R. Astron. Soc. 414, 1439-1454 (2011).

den Brok, M., R.F. Peletier, E.A. Valentijn, M. Balcells, D. Carter, P. Erwin, H.C. Ferguson, P. Goudfrooij, A.W. Graham, D. Hammer, J.R. Lucey, N. Trentham, R. Guzmán, C. Hoyos, G. Verdoes Kleijn, S. Jogee, A.M. Karick, I. Marinova, M. Mouhcine and T. Weinzirl: The HST/ACS Coma Cluster Survey - VI. Colour gradients in giant and dwarf early-type galaxies. Mon. Not. R. Astron. Soc. 414, 3052-3070 (2011).

De Rosa, G., R. Decarli, F. Walter, X. Fan, L. Jiang, J. Kurk, A. Pasquali and H.W. Rix: Evidence for Non-evolving Fe II/Mg II Ratios in Rapidly Accreting z $\sim$ 6 QSOs. Ap. J. 739, 56 (2011).

Deep, A., G. Fiorentino, E. Tolstoy, E. Diolaiti, M. Bellazzini, P. Ciliegi, R. Davies and J.-M. Conan: An E-ELT case study: colour-magnitude diagrams of an old galaxy in the Virgo cluster. Astron. Astrophys. 531, A151, (2011).

Dennerl, K.: Charge Transfer Reactions. In: "High-Resolution X-Ray Spectroscopy - Past, Present and Future". (Eds.) J. Kaastra, F. Paerels. Space Science Reviews, 157, Springer, New York Dordrecht Heidelberg London, 57-91 (2011).

Diehl, R., D.H. Hartman and N. Rantzos: Perspectives. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physiscs, Springer, Berlin, Vol. 812, 519-524 (2011).

Diehl, R., D.H. Hatmann and N. Prantzos: Distributed Radioactivities. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physiscs, Springer, Berlin, Vol. 812, 345-438 (2011).

Diehl, R.: Introduction to Astronomy with Radioactivity. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physiscs, Springer, Berlin, Vol. 812, 3-24 (2011).

Dobbs, C.L., A. Burkert and J.E. Pringle: The properties of the interstellar medium in disc galaxies with stellar feedback. Mon. Not. R. Astron. Soc. 417, 1318-1334 (2011).

Dobbs, C.L., A. Burkert and J.E. Pringle: Why are most molecular clouds not gravitatio-

nally bound?. Mon. Not. R. Astron. Soc. 413, 2935-2942 (2011).

Dodds-Eden, K., S. Gillessen, T.K. Fritz, F. Eisenhauer, S. Trippe, R. Genzel, T. Ott, H. Bartko, O. Pfuhl, G. Bower, A. Goldwurm, D. Porquet, G. Trap and F. Yusef-Zadeh: The Two States of Sgr A* in the Near-infrared: Bright Episodic Flares on Top of Low-level Continuous Variability. Ap. J. 728, 37 (2011).

Dominguez, A., J.R. Primack, D.J. Rosario, F. Prada, R.C. Gilmore, S.M. Faber, D.C. Koo, R.S. Somerville, M.A. Pérez-Torres, P. Pérez-González, J.-S. Huang, M. Davis, P. Guhathakurta, P. Barmby, C.J. Conselice, M. Lozano, J.A. Newman and M.C. Cooper: Extragalactic background light inferred from AEGIS galaxy-SED-type fractions. Mon. Not. R. Astron. Soc. 410, 2556-2578 (2011).

Du, C.-R., S.A. Khrapak, T. Antonova, B. Steffes, H.M. Thomas and G.E. Morfill: Frequency dependence of microparticle charge in a radio frequency discharge with Margenau electron velocity distribution. Phys. Plasmas 18, 014501 (2011).

Duarte-Cabral, A., C.L. Dobbs, N. Peretto and G.A. Fuller: Was a cloud-cloud collision the trigger of the recent star formation in Serpens?. Astron. Astrophys. 528, A50 (2011).

Duc, P.-A., J.-C. Cuillandre, P. Serra, L. Michel-Dansac, E. Ferriere, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, M. Cappellari, R.L. Davies, T.A. Davis, P.T. de Zeeuw, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, A.-M. Weijmans and L.M. Young: The ATLAS3D project - IX. The merger origin of a fast- and a slow-rotating early-type galaxy revealed with deep optical imaging: first results. Mon. Not. R. Astron. Soc. 417, 863-881 (2011).

Eisenstein, D.J., D.H. Weinberg, E. Agol, ..., S. Phleps, ..., A.G. Sanchez, et al.: SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems. Astron. J. 142, 72 (2011).

Elbaz, D., M. Dickinson, H.S. Hwang, ..., B. Magnelli, ..., P. Popesso, ..., D. Lutz, ..., N. Förster Schreiber, et al.: GOODS-Herschel: an infrared main sequence for star-forming galaxies. Astron. Astrophys. 533, A119 (2011).

Emsellem, E., M. Cappellari, D. Krajnović, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, R.L. Davies, T.A. Davis, P.T. de Zeeuw, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, G. van de Ven, A.-M. Weijmans and L.M. Young: The ATLAS3D project - III. A census of the stellar angular momentum within the effective radius of early-type galaxies: unveiling the distribution of fast and slow rotators. Mon. Not. R. Astron. Soc. 414, 888-912 (2011).

Engel, H., R.I. Davies, R. Genzel, L.J. Tacconi, E. Sturm and D. Downes: Arp 220: Extinction and Merger-induced Star Formation. Ap. J. 729, 58 (2011).

Enke, H., M. Steinmetz, H.-M. Adorf, A. Beck-Ratzka, F. Breitling, T. Brüsemeister, A. Carlson, T. Ensslin, M. Högqvist, I. Nickelt, T. Radke, A. Reinefeld, A. Reiser, T. Scholl, R. Spurzem, J. Steinacker, W. Voges, J. Wambsganß and S. White: Astro Grid-D: Grid technology for astronomical science. New Astronomy 16, 79-93 (2011).

Fassbender, R., A. Nastasi, H. Böhringer, R. Šuhada, J.S. Santos, P. Rosati, D. Pierini, M. Mühlegger, H. Quintana, A.D. Schwope, G. Lamer, A. de Hoon, J. Kohnert, G.W. Pratt and J.J. Mohr: The X-ray luminous galaxy cluster XMMU J1007.4+1237 at z = 1.56. The dawn of starburst activity in cluster cores. Astron. Astrophys. 527, L10 (2011).

Fassbender, R., H. Böhringer, A. Nastasi, R. Šuhada, M. Mühlegger, A. de Hoon, J. Kohnert, G. Lamer, J.J. Mohr, D. Pierini, G.W. Pratt, H. Quintana, P. Rosati, J.S. Santos and A.D. Schwope: The x-ray luminous galaxy cluster population at $0.9 < z < 1.6$ as revealed by the XMM-Newton Distant Cluster Project. New J. Phys. 13, 125014

(2011).

Fassbender, R., H. Böhringer, J.S. Santos, G.W. Pratt, R. Šuhada, J. Kohnert, M. Lerchster, E. Rovilos, D. Pierini, G. Chon, A.D. Schwope, G. Lamer, M. Mühlegger, P. Rosati, H. Quintana, A. Nastasi, A. de Hoon, S. Seitz and J.J. Mohr: A pan-chromatic view of the galaxy cluster XMMU J1230.3+1339 at z = 0.975. Observing the assembly of a massive system. Astron. Astrophys. 527, A78 (2011).

Faure, C., T. Anguita, D. Alloin, K. Bundy, A. Finoguenov, A. Leauthaud, C. Knobel, J.-P. Kneib, E. Jullo, O. Ilbert, A.M. Koekemoer, P. Capak, N. Scoville and L.A.M. Tasca: On the evolution of environmental and mass properties of strong lens galaxies in COSMOS. Astron. Astrophys. 529, A72 (2011).

Fedele, D., I. Pascucci, S. Brittain, I. Kamp, P. Woitke, J.P. Williams, W.R.F. Dent and W.-F. Thi: Water Depletion in the Disk Atmosphere of Herbig AeBe Stars. Ap. J. 732, 106-118 (2011).

Filgas, R., J. Greiner, P. Schady, T. Krühler, A.C. Updike, S. Klose, M. Nardini, D.A. Kann, A. Rossi, V. Sudilovsky, P.M.J. Afonso, C. Clemens, J. Elliott, A. Nicuesa Guelbenzu, F. Olivares E. and A. Rau: GRB 091127: The cooling break race on magnetic fuel. Astron. Astrophys. 535, A57 (2011).

Filgas, R., T. Krühler, J. Greiner, A. Rau, E. Palazzi, S. Klose, P. Schady, A. Rossi, P.M.J. Afonso, L.A. Antonelli, C. Clemens, S. Covino, P. D'Avanzo, A. Küpcü Yoldaş, M. Nardini, A. Nicuesa Guelbenzu, F. Olivares, E.A.C. Updike and A. Yoldaş: The two-component jet of GRB 080413B. Astron. Astrophys. 526, A113 (2011).

Finkelstein, S.L., G.J. Hill, K. Gebhardt, J. Adams, G.A. Blanc, C. Papovich, R. Ciardullo, N. Drory, E. Gawiser, C. Gronwall, D.P. Schneider and K.-V. Tran: The HETDEX Pilot Survey. III. The Low Metallicities of High-redshift Lyα Galaxies. Ap. J. 729, 140 (2011).

Fisher, D.B. and N. Drory: Demographics of Bulge Types within 11 Mpc and Implications for Galaxy Evolution. Ap. J. Lett. 733, L47 (2011).

Fishman, G.J., M.S. Briggs, V. Connaughton, P.N. Bhat, W.S. Paciesas, A. von Kienlin, C. Wilson-Hodge, R.M. Kippen, R. Preece, C.A. Meegan and J. Greiner: Temporal properties of the terrestrial gamma-ray flashes from the Gamma-Ray Burst Monitor on the Fermi Observatory. J. Geophys. Res. (Space Phys.) 116, 7304 (2011).

Flores, H., P. Goldoni, F. Royer, S. Piranomonte, S.D. Vergani, F. Onori, E. Palazzi, S. Covino, S. Randich, F. Hammer, E. Pian, S. Savaglio and G. Tagliaferri: Observing GRB host galaxies with the integral field unit of X-shooter. Astron. Nachr. 332, 288 (2011).

Foley, R.J., K. Andersson, G. Bazin, ..., J.J. Mohr, et al.: Discovery and Cosmological Implications of SPT-CL J2106-5844, the Most Massive Known Cluster at z> 1. Ap. J. 731 (2011).

Font, A.S., I.G. McCarthy, R.A. Crain, T. Theuns, J. Schaye, R.P. C. Wiersma and C. Dalla Vecchia: Cosmological simulations of the formation of the stellar haloes around disc galaxies. Mon. Not. R. Astron. Soc. 416, 2802-2820 (2011).

Fontanot, F., G. De Lucia, D. Wilman and P. Monaco: The other side of bulge formation in a Λ cold dark matter cosmology: bulgeless galaxies in the local Universe. Mon. Not. R. Astron. Soc. 416, 409-415 (2011).

Foyle, K., H.-W. Rix, C.L. Dobbs, A.K. Leroy and F. Walter: Observational Evidence Against Long-lived Spiral Arms in Galaxies. Ap. J. 735, 101 (2011).

France, K., E. Schindhelm, E.B. Burgh, G.J. Herczeg, et al.: The Far-ultraviolet "Continuum" in Protoplanetary Disk Systems. II. Carbon Monoxide Fourth Positive Emission and Absorption. Ap. J. 734, 31 (2011).

Freeland, E., K.-V.H. Tran, T. Irwin, L. Giordano, A. Saintonge, A.H. Gonzalez, D. Zaritsky and D. Just: Detection of Outflowing and Extraplanar Gas in Disks in an Assembling Galaxy Cluster at z = 0.37. Ap. J. Lett. 742, L34 (2011).

Fritz, T.K., S. Gillessen, K. Dodds-Eden, D. Lutz, R. Genzel, W. Raab, T. Ott, O. Pfuhl, F. Eisenhauer and F. Yusef-Zadeh: Line Derived Infrared Extinction toward the Galactic Center. Ap. J. 737, 73 (2011).

Förster Schreiber, N.M., A.E. Shapley, D.K. Erb, R. Genzel, C.C. Steidel, N. Bouché, G. Cresci and R. Davies: Constraints on the Assembly and Dynamics of Galaxies. I. Detailed Rest-frame Optical Morphologies on Kiloparsec Scale of z $\sim$ 2 Star-forming Galaxies. Ap. J. 731, 65 (2011).

Förster Schreiber, N.M., A.E. Shapley, R. Genzel, N. Bouché, G. Cresci, R. Davies, D.K. Erb, S. Genel, D. Lutz, S. Newman, K.L. Shapiro, C.C. Steidel, A. Sternberg and L.J. Tacconi: Constraints on the Assembly and Dynamics of Galaxies. II. Properties of Kiloparsec-scale Clumps in Rest-frame Optical Emission of z $\sim$ 2 Star-forming Galaxies. Ap. J. 739, 45 (2011).

Gaibler, V., S. Khochfar and M. Krause: Asymmetries in extragalactic double radio sources: clues from 3D simulations of jet-disc interaction. Mon. Not. R. Astron. Soc. 411, 155-161 (2011).

Gallo, L.C., D. Grupe, N. Schartel, S. Komossa, G. Miniutti, A.C. Fabian and M. Santos-Lleo: The quasar PG 0844+349 in an X-ray weak state. Mon. Not. R. Astron. Soc. 412, 161-170 (2011).

Genzel, R., S. Newman, T. Jones, N.M. Förster Schreiber, K. Shapiro, S. Genel, S.J. Lilly, A. Renzini, L.J. Tacconi, N. Bouché, A. Burkert, G. Cresci, P. Buschkamp, C.M. Carollo, D. Ceverino, R. Davies, A. Dekel, F. Eisenhauer, E. Hicks, J. Kurk, D. Lutz, C. Mancini, T. Naab, Y. Peng, A. Sternberg, D. Vergani and G. Zamorani: The Sins Survey of z $\sim$ 2 Galaxy Kinematics: Properties of the Giant Star-forming Clumps. Ap. J. 733, 101 (2011).

Georgakakis, A. and K. Nandra: A serendipitous XMM survey of the SDSS: the evolution of the colour-magnitude diagram of X-ray AGN from z = 0.8 to 0.1. Mon. Not. R. Astron. Soc. 414, 992-1010 (2011).

Georgakakis, A., A.L. Coil, C.N.A. Willmer, K. Nandra, D.D. Kocevski, M.C. Cooper, D.J. Rosario, D.C. Koo, J.R. Trump and S. Juneau: Observational constraints on the physics behind the evolution of active galactic nuclei since z $\sim$ 1. Mon. Not. R. Astron. Soc. 418, 2590-2603 (2011).

Georgantopoulos, I., E. Rovilos, A. Akylas, A. Comastri, P. Ranalli, C. Vignali, I. Balestra, R. Gilli and N. Cappelluti: On the L_x - L_6 μm ratio as a diagnostic for Compton-thick AGN. Astron. Astrophys. 534, A23 (2011).

George, M.R., A. Leauthaud, K. Bundy, A. Finoguenov, J. Tinker, Y.-T. Lin, S. Mei, J.-P. Kneib, H. Aussel, P.S. Behroozi, M.T. Busha, P. Capak, L. Coccato, G. Covone, C. Faure, S.L. Fiorenza, O. Ilbert, E. Le Floc'h, A.M. Koekemoer, M. Tanaka, R.H. Wechsler and M. Wolk: Galaxies in X-Ray Groups. I. Robust Membership Assignment and the Impact of Group Environments on Quenching. Ap. J. 742, 125 (2011).

Gerin, M., M. de Luca, J. Black, ..., A. Contursi, et al.: Interstellar OH^+, H_2O^+ and H_3O^+ along the sight-line to G10.6-0.4. Astron. Astrophys. Lett. 518, L110 (2010).

Giavalisco, M., E. Vanzella, S. Salimbeni, T.M. Tripp, M. Dickinson, P. Cassata, A. Renzini, Y. Guo, H.C. Ferguson, M. Nonino, A. Cimatti, J. Kurk, M. Mignoli and Y. Tang: Discovery of Cold, Pristine Gas Possibly Accreting onto an Overdensity of Star-forming Galaxies at Redshift z $\sim$ 1.6. Ap. J. 743, 95 (2011).

Giovannoli, E., V. Buat, S. Noll, D. Burgarella and B. Magnelli: Population synthesis modelling of luminous infrared galaxies at intermediate redshift. Astron. Astrophys.

525, A150 (2011).

Gnerucci, A., A. Marconi, G. Cresci, R. Maiolino, F. Mannucci, N.M. Förster Schreiber, R. Davies, K.L. Shapiro and E.K.S. Hicks: A dynamical mass estimator for high z galaxies based on spectroastrometry. Astron. Astrophys. 533, A124 (2011).

Gobat, R., E. Daddi, M. Onodera, A. Finoguenov, A. Renzini, N. Arimoto, R. Bouwens, M. Brusa, R.-R. Chary, A. Cimatti, M. Dickinson, X. Kong and M. Mignoli: A mature cluster with X-ray emission at z = 2.07. Astron. Astrophys. 526, A133 (2011).

Goicoechea, J.R., C. Joblin, A. Contursi, O. Berné, J. Cernicharo, M. Gerin, J. Le Bourlot, E.A. Bergin, T.A. Bell and M. Röllig: OH emission from warm and dense gas in the Orion Bar PDR. Astron. Astrophys. 530, L16 (2011).

Goldsmith, P.F., R. Liseau, T.A. Bell, J.H. Black, J.-H. Chen, D. Hollenbach, M.J. Kaufman, D. Li, D.C. Lis, G. Melnick, D. Neufeld, L. Pagani, R. Snell, A.O. Benz, E. Bergin, S. Bruderer, P. Caselli, E. Caux, P. Encrenaz, E. Falgarone, M. Gerin, J.R. Goicoechea, Å. Hjalmarson, B. Larsson, J. Le Bourlot, F. Le Petit, M. de Luca, Z. Nagy, E. Roueff, A. Sandqvist, F. van der Tak, E.F. van Dishoeck, C. Vastel, S. Viti and U. Yildiz: Herschel Measurements of Molecular Oxygen in Orion. Ap. J. 737, 96 (2011).

Goto, M., Z. Regály, C.P. Dullemond, M. van den Ancker, J.M. Brown, A. Carmona, K. Pontoppidan, P. Ábrahám, G.A. Blake, D. Fedele, T. Henning, A. Juhász, Á. Kóspál, L. Mosoni, A. Sicilia-Aguilar, H. Terada, R. van Boekel, E.F. van Dishoeck and T. Usuda: Fundamental Vibrational Transition of CO During the Outburst of EX Lupi in 2008. Ap. J. 728, 5 (2011).

Graciá-Carpio, J., E. Sturm, S. Hailey-Dunsheath, J. Fischer, A. Contursi, A. Poglitsch, R. Genzel, E. González-Alfonso, A. Sternberg, A. Verma, N. Christopher, R. Davies, H. Feuchtgruber, J.A. de Jong, D. Lutz and L.J. Tacconi: Far-infrared Line Deficits in Galaxies with Extreme LFIR/M - H2 Ratios. Ap. J. Lett. 728, L7 (2011).

Grasso, D., S. Profumo, A.W. Strong, L. Baldini, R. Bellazzini, E.D. Bloom, J. Bregeon, G. di Bernardo, D. Gaggero, N. Giglietto, T. Kamae, L. Latronico, F. Longo, M.N. Mazziotta, A.A. Moiseev, A. Morselli, J.F. Ormes, M. Pesce-Rollins, M. Pohl, M. Razzano, C. Sgro, G. Spandre and T.E. Stephens: Possible interpretations of the high energy cosmic ray electron spectrum measured with the Fermi space telescope. Nucl. Instrum. Methods Phys. Res. (A) 630, 48-51 (2011).

Green, J.D., N.J. Evans II, Á. Kóspál, T.A. van Kempen, G. Herczeg, S.P. Quanz, T. Henning, J.-E. Lee, M.M. Dunham, G. Meeus, J. Bouwman, E. van Dishoeck, J.-H. Chen, M. Güdel, S.L. Skinner, M. Merello, D. Pooley, L.M. Rebull and S. Guieu: Disentangling the Environment of the FU Orionis Candidate HBC 722 with Herschel. Ap. J. Lett. 731, L25 (2011).

Greiner, C., N. Haque, M.G. Mustafa and M.H. Thoma: Low-mass dilepton rate from the deconfined phase. Phys. Rev. C 83, 014908 (2011).

Greiner, J. and A. Rau: The multi-wavelength context in 2015 and beyond. Comptes Rendus Phys. 12, 226-233 (2011).

Greiner, J., T. Krühler, S. Klose, P. Afonso, C. Clemens, R. Filgas, D.H. Hartmann, A. Küpcü Yoldaş, M. Nardini, F. Olivares E., A. Rau, A. Rossi, P. Schady and A. Updike: The nature of "dark" gamma-ray bursts. Astron. Astrophys. 526, A30 (2011).

Grogin, N.A., D.D. Kocevski, S.M. Faber, ..., K. Nandra, ..., D.J. Rosario, ..., S. Wuyts, et al.: CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey. Ap. J. Supp. Ser. 197, 35 (2011).

Gruber, D., J. Greiner, A. von Kienlin, A. Rau, ..., M. Nardini, ..., E. Bissaldi, ..., R. Diehl, ... S. Foley, ... F. Olivares E., et al.: Rest-frame properties of 32 gamma-ray bursts observed by the Fermi Gamma-ray Burst Monitor. Astron. Astrophys. 531, A20

(2011).

Gruber, D., P. Lachowicz, E. Bissaldi, M.S. Briggs, V. Connaughton, J. Greiner, A.J. van der Horst, G. Kanbach, A. Rau, P.N. Bhat, R. Diehl, A. von Kienlin, R.M. Kippen, C.A. Meegan, W.S. Paciesas, R.D. Preece and C. Wilson-Hodge: Quasi-periodic pulsations in solar flares: new clues from the Fermi Gamma-Ray Burst Monitor. Astron. Astrophys. 533, A61 (2011).

Gruber, D., T. Krühler, S. Foley, M. Nardini, D. Burlon, A. Rau, E. Bissaldi, A. von Kienlin, S. McBreen, J. Greiner, et al.: Fermi/GBM observations of the ultra-long GRB 091024. A burst with an optical flash. Astron. Astrophys. 528, A15 (2011).

Guiriec, S., V. Connaughton, M.S. Briggs, M. Burgess, F. Ryde, F. Daigne, P. Mészáros, A. Goldstein, J. McEnery, N. Omodei, P.N. Bhat, E. Bissaldi, A. Camero-Arranz, V. Chaplin, R. Diehl, G. Fishman, S. Foley, M. Gibby, M.M. Giles, J. Greiner, D. Gruber, A. von Kienlin, M. Kippen, C. Kouveliotou, S. McBreen, C.A. Meegan, W. Paciesas, R. Preece, A. Rau, D. Tierney, A.J. van der Horst and C. Wilson-Hodge: Detection of a Thermal Spectral Component in the Prompt Emission of GRB 100724B. Ap. J. Lett. 727, L33 (2011).

Gutiérrez, L., P. Erwin, R. Aladro and J.E. Beckman: The Outer Disks of Early-type Galaxies. II. Surface-brightness Profiles of Unbarred Galaxies and Trends with Hubble Type. Astron. J. 142, 145 (2011).

Gültekin, K., D.O. Richstone, K. Gebhardt, S.M. Faber, T.R. Lauer, R. Bender, J. Kormendy and J. Pinkney: Is There a Black Hole in NGC 4382?. Ap. J. 741, 38 (2011).

Haerendel, G.: A droplet model of quiescent prominence downflows. Astroph. J. 731, Issue 2, 82 (2011).

Haerendel, G.: Six auroral generators: a review. J. Geophys. Res., 116, A00K05 (2011).

Hamrin, M., O. Marghitu, P. Norqvist, S. Buchert, M. André, B. Klecker, L.M. Kistler and I. Dandouras: Energy conversion regions as observed by Cluster in the plasma sheet. J. Geophys. Res. (Space Phys.) 116, 0 (2011).

Haque, N., M.G. Mustafa and M.H. Thoma: Conserved density fluctuation and temporal correlation function in hard thermal loop perturbation theory. Physical Review D 84, 054009 (2011).

Hatch, N.A., C. de Breuck, A. Galametz, G.K. Miley, R.A. Overzier, H.J.A. Röttgering, M. Doherty, T. Kodama, J.D. Kurk, N. Seymour, B.P. Venemans, J. Vernet and A.W. Zirm: Galaxy protocluster candidates around z∼2.4 radio galaxies. Mon. Not. R. Astron. Soc. 410, 1537-1549 (2011).

Hatch, N.A., J.D. Kurk, L. Pentericci, B.P. Venemans, E. Kuiper, G.K. Miley and H.J.A. Röttgering: Hα emitters in z∼2 protoclusters: evidence for faster evolution in dense environments. Mon. Not. R. Astron. Soc. 415, 2993-3005 (2011).

Havnes, O., T.W. Hartquist, M. Kassa and G.E. Morfill: In-flight calibration of mesospheric rocket plasma probes. Rev. Sci. Instruments 82, 074503 (2011).

Haynes, M.P., R. Giovanelli, A.M. Martin, ..., A. Saintonge, et al.: The Arecibo Legacy Fast ALFA Survey: The α.40 H I Source Catalog, Its Characteristics and Their Impact on the Derivation of the H I Mass Function. Astron. J. 142, 170 (2011).

Heidemann, R., M. Kretschmer, S.K. Zhdanov, K.R. Sutterlin, H.M. Thomas, M.H. Thoma and G.E. Morfill: Dissipative Dark Soliton in a Complex Plasma. IEEE Trans. Plasma Sci. 39, 2720-2721 (2011).

Heidemann, R., S. Zhdanov, K.R. Sütterlin, H.M. Thomas and G.E. Morfill: Shear flow instability at the interface among two streams of a highly dissipative complex plasma. EPL (Europhysics Letters) 96, 15001 (2011).

Heidemann, R.J., L. Couëdel, S.K. Zhdanov, K.R. Sütterlin, M. Schwabe, H.M. Thomas,

A.V. Ivlev, T. Hagl, G.E. Morfill, V.E. Fortov, V.I. Molotkov, O.F. Petrov, A.I. Lipaev, V. Tokarev, T. Reiter and P. Vinogradov: Comprehensive experimental study of heartbeat oscillations observed under microgravity conditions in the PK-3 Plus laboratory on board the International Space Station. Phys. Plasmas 18, 053701 (2011).

Henze, M., W. Pietsch, F. Haberl, M. Hernanz, G. Sala, D. Hatzidimitriou, M. Della Valle, A. Rau, D.H. Hartmann and V. Burwitz: X-ray monitoring of classical novae in the central region of M 31. II. Autumn and winter 2007/2008 and 2008/2009. Astron. Astrophys. 533, A52 (2011).

Herczeg, G.J., J.M. Brown, E.F. van Dishoeck and K.M. Pontoppidan: Disks and outflows in CO rovibrational emission from embedded, low-mass young stellar objects. Astron. Astrophys. 533, A112 (2011).

Hogerheijde, M.R., E.A. Bergin, C. Brinch, L.I. Cleeves, J.K.J. Fogel, G.A. Blake, C. Dominik, D.C. Lis, G. Melnick, D. Neufeld, O. Panić, J.C. Pearson, L. Kristensen, U.A. Yildiz and E.F. van Dishoeck: Detection of the Water Reservoir in a Forming Planetary System. Science 334, 338-340 (2011).

Holmes, S., U. Kolb, C.A. Haswell, V. Burwitz, R.J. Lucas, J. Rodriguez, S.M. Rolfe, J. Rostron and J. Barker: PIRATE: A Remotely Operable Telescope Facility for Research and Education. Publ. Astron. Soc. Pac. 123, 1177-1187 (2011).

Huarte-Espinosa, M., M. Krause and P. Alexander: 3D magnetohydrodynamic simulations of the evolution of magnetic fields in Fanaroff-Riley class II radio sources. Mon. Not. R. Astron. Soc. 417, 382-399 (2011).

Huarte-Espinosa, M., M. Krause and P. Alexander: Interaction of Fanaroff-Riley class II radio jets with a randomly magnetized intracluster medium. Mon. Not. R. Astron. Soc. 418, 1621-1639 (2011).

Hunt, L., E. Palazzi, A. Rossi, S. Savaglio, G. Cresci, S. Klose, M. Michalowski and E. Pian: The Extremely Red Host Galaxy of GRB 080207. Ap. J. Lett. 736, L36 (2011).

Hurley, K., J.-L. Atteia, C. Barraud, A. Rau, A. von Kienlin, et al.: The Interplanetary Network Supplement to the HETE-2 Gamma-Ray Burst Catalog. Ap. J. Supp. Ser. 197, 34 (2011).

Hwang, H.S., D. Elbaz, M. Dickinson, V. Charmandaris, E. Daddi, D. Le Borgne, V. Buat, G.E. Magdis, B. Altieri, H. Aussel, D. Coia, H. Dannerbauer, K. Dasyra, J. Kartaltepe, R. Leiton, B. Magnelli, P. Popesso and I. Valtchanov: GOODS-Herschel: the impact of galaxy-galaxy interactions on the far-infrared properties of galaxies. Astron. Astrophys. 535, A60 (2011).

Ingleby, L., N. Calvet, E. Bergin, G. Herczeg, A. Brown, R. Alexander, S. Edwards, C. Espaillat, K. France, S.G. Gregory, L. Hillenbrand, E. Roueff, J. Valenti, F. Walter, C. Johns-Krull, J. Brown, J. Linsky, M. McClure, D. Ardila, H. Abgrall, T. Bethell, G. Hussain and H. Yang: Near-ultraviolet Excess in Slowly Accreting T Tauri Stars: Limits Imposed by Chromospheric Emission. Ap. J. 743, 105 (2011).

Ioppolo, S., H.M. Cuppen, E.F. van Dishoeck and H. Linnartz: Surface formation of HCOOH at low temperature. Mon. Not. R. Astron. Soc. 410, 1089-1095 (2011).

Ioppolo, S., Y. van Boheemen, H.M. Cuppen, E.F. van Dishoeck and H. Linnartz: Surface formation of CO2 ice at low temperatures. Mon. Not. R. Astron. Soc. 413, 2281-2287 (2011).

Ivlev, A.V., M.H. Thoma, C. Räth, G. Joyce and G.E. Morfill: Complex Plasmas in External Fields: The Role of Non-Hamiltonian Interactions. Phys. Rev. Lett. 106, 155001 (2011).

Iwasawa, K., D.B. Sanders, S.H. Teng, V. U, L. Armus, A.S. Evans, J.H. Howell, S. Komossa, J.M. Mazzarella, A.O. Petric, J.A. Surace, T. Vavilkin, S. Veilleux and N. Trentham: C-GOALS: Chandra observations of a complete sample of luminous infra-

red galaxies from the IRAS Revised Bright Galaxy Survey. Astron. Astrophys. 529, A106 (2011).

Iwasawa, K., J.M. Mazzarella, J.A. Surace, D.B. Sanders, L. Armus, A.S. Evans, J.H. Howell, S. Komossa, A. Petric, S.H. Teng, V. U and S. Veilleux: The location of an active nucleus and a shadow of a tidal tail in the ULIRG Mrk 273. Astron. Astrophys. 528, A137 (2011).

Jaffe, T.R., A.J. Banday, J.P. Leahy, S. Leach and A.W. Strong: Connecting synchrotron, cosmic rays and magnetic fields in the plane of the Galaxy. Mon. Not. R. Astron. Soc. 416, 1152-1162 (2011).

Jaffé, Y.L., A. Aragón-Salamanca, G. De Lucia, P. Jablonka, G. Rudnick, R. Saglia and D. Zaritsky: The colour-magnitude relation of elliptical and lenticular galaxies in the ESO Distant Cluster Survey. Mon. Not. R. Astron. Soc. 410, 280-292 (2011).

Jaffé, Y.L., A. Aragón-Salamanca, H. Kuntschner, S. Bamford, C. Hoyos, G. De Lucia, C. Halliday, B. Milvang-Jensen, B. Poggianti, G. Rudnick, R.P. Saglia, P. Sanchez-Blazquez and D. Zaritsky: The effect of the environment on the gas kinematics and the structure of distant galaxies. Mon. Not. R. Astron. Soc. 417, 1996-2019 (2011).

Jeeson-Daniel, A., C. Dalla Vecchia, M.R. Haas and J. Schaye: The correlation structure of dark matter halo properties. Mon. Not. R. Astron. Soc. 415, L69-L73 (2011).

Jiang, K., L.-J. Hou, A.V. Ivlev, Y.-F. Li, C.-R. Du, H.M. Thomas, G.E. Morfill and K.R. Sütterlin: Initial stages in phase separation of binary complex plasmas: Numerical experiments. EPL (Europhysics Letters) 93, 55001 (2011).

Jiang, K., L.-J. Hou, A.V. Ivlev, Y.-F. Li, K.R. Sutterlin, H.M. Thomas and G.E. Morfill: Demixing in Binary Complex Plasma: Computer Simulation. IEEE Trans. Plasma Sci. 39, 2752-2753 (2011).

Johnson, J.L. and S. Khochfar: Suppression of accretion on to low-mass Population III stars. Mon. Not. R. Astron. Soc. 413, 1184-1191 (2011).

Johnson, J.L. and S. Khochfar: The Contribution of Supernovae to Cosmic Reionization. Ap. J. 743, 126 (2011).

Johnson, J.L., S. Khochfar, T.H. Greif and F. Durier: Accretion on to black holes formed by direct collapse. Mon. Not. R. Astron. Soc. 410, 919-933 (2011).

Johnson, R., A. Finoguenov, T.J. Ponman, J. Rasmussen and A.J.R. Sanderson: Abundance profiles and cool cores in galaxy groups. Mon. Not. R. Astron. Soc. 413, 2467-2480 (2011).

Joyce, G., C. Räth, P. Huber, H. Thomas, G.E. Morfill, V. Molotkov and V. Fortov: Addendum Structural properties of 3D complex plasmas under microgravity conditions. EPL (Europhysics Letters) 93, 29901 (2011).

Kanbach, G. and L. Nittler: Instruments for Observations of Radioactivities. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physiscs, Springer, Berlin, Vol. 812, 490-518 (2011).

Kasliwal, M.M., S.B. Cenko, S.R. Kulkarni, E.O. Ofek, R. Quimby and A. Rau: Discovery of a New Photometric Sub-class of Faint and Fast Classical Novae. Ap. J. 735, 94 (2011).

Khochfar, S. and J. Silk: The specific star formation rate of high redshift galaxies: the case for two modes of star formation. Mon. Not. R. Astron. Soc. 410, L42-L46 (2011).

Khochfar, S., E. Emsellem, P. Serra, M. Bois, K. Alatalo, R. Bacon, L. Blitz, F. Bournaud, M. Bureau, M. Cappellari, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, A.-M. Weijmans and L.M. Young: The ATLAS3D project - VIII. Modelling the formation and evolution of fast and slow rotator early-

type galaxies within ΛCDM. Mon. Not. R. Astron. Soc. 417, 845-862 (2011).

Khrapak, S.A., M. Chaudhuri and G.E. Morfill: Universality of the melting curves for a wide range of interaction potentials. The Journal of Chemical Physics 134, 241101, (2011).

Khrapak, S.A., M.S. Chaudhuri and G.E. Morfill: Freezing of Lennard-Jones-type Fluids. The Journal of Chemical Physics 134, 054120, (2011).

Khrapak, S.A. and F. Saija: Application of phenomenological freezing and melting indicators to the exp-6 and Gaussian core potentials. Molecular Physics 109, 2417-2421 (2011).

Khrapak, S.A. and G.E. Morfill: Accurate freezing and melting equations for the Lennard-Jones system. Journal of Chemical Physics 134, 094108 (2011).

Khrapak, S.A., B.A. Klumov, P. Huber, V.I. Molotkov, A.M. Lipaev, V.N. Naumkin, H.M. Thomas, A.V. Ivlev, G.E. Morfill, O.F. Petrov, V.E. Fortov, Y. Malentschenko and S. Volkov: Freezing and Melting of 3D Complex Plasma Structures under Microgravity Conditions Driven by Neutral Gas Pressure Manipulation. Phys. Rev. Lett. 106, 205001 (2011).

Khrapak, S.A., M. Chaudhuri and G.E. Morfill: Communication: Universality of the melting curves for a wide range of interaction potentials. Journal of Chemical Physics 134, 241101 (2011).

Khrapak, S.A., M. Chaudhuri and G.E. Morfill: Freezing of Lennard-Jones-type fluids. Journal of Chemical Physics 134, 054120 (2011).

Kimm, T., S.K. Yi and S. Khochfar: The Impact of Gas Stripping and Stellar Mass Loss on Satellite Galaxy Evolution. Ap. J. 729, 11 (2011).

Klumov, B.A., S.A. Khrapak and G.E. Morfill: Structural properties of dense hard sphere packings. Phys. Rev. B 83, 184105 (2011).

Koekemoer, A.M., S.M. Faber, H.C. Ferguson, ..., K. Nandra, ..., D.J. Rosario, ..., S. Wuyts et al.: CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey - The Hubble Space Telescope Observations, Imaging Data Products, and Mosaics. Ap. J. Supp. Ser. 197, 36 (2011).

Kopp, M., S. Hofmann and J. Weller: Separate universes do not constrain primordial black hole formation. Phys. Rev. D, 83, Issue 12, 124025 (2011).

Kormendy, J. and R. Bender: Supermassive black holes do not correlate with dark matter haloes of galaxies. Nature 469, 377-380 (2011).

Kormendy, J., R. Bender and M.E. Cornell: Supermassive black holes do not correlate with galaxy disks or pseudobulges. Nature 469, 374-376 (2011).

Kovač, K., C. Porciani, S.J. Lilly, ..., A. Bongiorno, ..., A. Finoguenov, et al.: The Nonlinear Biasing of the zCOSMOS Galaxies up to z $\sim$ 1 from the 10k Sample. Ap. J. 731, 102 (2011).

Krajnović, D., E. Emsellem, M. Cappellari, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, R.L. Davies, T.A. Davis, P.T. de Zeeuw, S. Khochfar, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: The ATLAS3D project - II. Morphologies, kinemetric features and alignment between photometric and kinematic axes of early-type galaxies. Mon. Not. R. Astron. Soc. 414, 2923-2949 (2011).

Krause, M., A. Burkert and M. Schartmann: Stability of cloud orbits in the broad-line region of active galactic nuclei. Mon. Not. R. Astron. Soc. 411, 550-556 (2011).

Krause, M., J. Blum, Y.V. Skorov and M. Trieloff: Thermal conductivity measurements of porous dust aggregates: I. Technique, model and first results. Icarus 214, 286-296

(2011).

Kretschmer, M., U. Konopka, S.K. Zhdanov, H.M. Thomas, G.E. Morfill, V.E. Fortov, V.I. Molotkov, A.M. Lipaev and O.F. Petrov: Particles Inside the Void of a Complex Plasma. IEEE Trans. Plasma Sci. 39, 2758-2759 (2011).

Kristensen, L.E. and E.F. van Dishoeck: Water in star-forming regions with Herschel. Astron. Nachr. 332, 475 (2011).

Kristensen, L.E., E.F. van Dishoeck, M. Tafalla, R. Bachiller, B. Nisini and R. Liseau: Water in low-mass star-forming regions with Herschel (WISH-LM). High-velocity H_2O bullets in L1448-MM observed with HIFI. Astron. Astrophys. 531, L1 (2011).

Kronberg, E.A., R. Bučík, S. Haaland, B. Klecker, K. Keika, M.I. Desai, P.W. Daly, M. Yamauchi, R. Gómez-Herrero and A.T.Y. Lui: On the origin of the energetic ion events measured upstream of the Earth's bow shock by STEREO, Cluster, and Geotail. J. Geophys. Res. (Space Phys.) 116, 2210 (2011).

Krühler, T., J. Greiner, P. Schady, S. Savaglio, P.M.J. Afonso, C. Clemens, J. Elliott, R. Filgas, D. Gruber, D.A. Kann, S. Klose, A. Küpcü-Yoldaş, S. McBreen, F. Olivares E., D. Pierini, A. Rau, A. Rossi, M. Nardini, A. Nicuesa Guelbenzu, V. Sudilovsky and A.C. Updike: The SEDs and host galaxies of the dustiest GRB afterglows. Astron. Astrophys. 534, A108 (2011).

Krühler, T., P. Schady, J. Greiner, P. Afonso, E. Bottacini, C. Clemens, R. Filgas, S. Klose, T.S. Koch, A. Küpcü-Yoldaş, S.R. Oates, F. Olivares E., M.J. Page, S. McBreen, M. Nardini, A. Nicuesa Guelbenzu, A. Rau, P.W.A. Roming, A. Rossi, A. Updike and A. Yoldaş: Photometric redshifts for gamma-ray burst afterglows from GROND and Swift/UVOT. Astron. Astrophys. 526, A153 (2011).

Kuiper, E., N.A. Hatch, B.P. Venemans, G.K. Miley, H.J.A. Röttgering, J.D. Kurk, R.A. Overzier, L. Pentericci, J. Bland-Hawthorn and J. Cepa: Discovery of a high-z protocluster with tunable filters: the case of 6C0140+326 at z = 4.4. Mon. Not. R. Astron. Soc. 417, 1088-1097 (2011).

Kuiper, E., N.A. Hatch, G.K. Miley, N.P.H. Nesvadba, H.J.A. Röttgering, J.D. Kurk, M.D. Lehnert, R.A. Overzier, L. Pentericci, J. Schaye and B.P. Venemans: A SINFONI view of flies in the Spiderweb: a galaxy cluster in the making. Mon. Not. R. Astron. Soc. 415, 2245-2256 (2011).

Landriau, M. and E.P. S. Shellard: Cosmic string induced CMB maps. Phys. Rev. (D) 83, 043516, (2011).

Lerchster, M., S. Seitz, F. Brimioulle, R. Fassbender, M. Rovilos, H. Böhringer, D. Pierini, M. Kilbinger, A. Finoguenov, H. Quintana and R. Bender: The massive galaxy cluster XMMU J1230.3+1339 at z $\sim$ 1: colour-magnitude relation, Butcher-Oemler effect, X-ray and weak lensing mass estimates. Mon. Not. R. Astron. Soc. 411, 2667-2694 (2011).

Lin, L., C. Kouveliotou, E. Göğüş, ..., A. von Kienlin and S.N. Zhang: Burst and Persistent Emission Properties during the Recent Active Episode of the Anomalous X-Ray Pulsar 1E 1841-045. Ap. J. Lett. 740, L16 (2011).

Lin, L., C. Kouveliotou, M.G. Baring, ..., A. von Kienlin, et al.: Fermi/Gamma-Ray Burst Monitor Observations of SGR J0501+4516 Bursts. Ap. J. 739, 87 (2011).

Lindner, R.R., A.J. Baker, A. Omont, A. Beelen, F.N. Owen, F. Bertoldi, H. Dole, N. Fiolet, A.I. Harris, R.J. Ivison, C.J. Lonsdale, D. Lutz and M. Polletta: A Deep 1.2 mm Map of the Lockman Hole North Field. Ap. J. 737, 83 (2011).

Liu, F.-C., B. Parise, L. Kristensen, R. Visser, E.F. van Dishoeck and R. Güsten: Water deuterium fractionation in the low-mass protostar NGC1333-IRAS2A. Astron. Astrophys. 527, A19 (2011).

Lomb, L., T.R.M. Barends, S. Kassemeyer, ..., P. Holl, ..., N. Kimmel, ..., G. Weidenspointner, ..., L. Strüder et al.: Radiation damage in protein serial femtosecond crystallographyusing an x-ray free-electron laser. Phys. Rev. (B) 84 (2011).

Luo, B., W.N. Brandt, Y.Q. Xue, D.M. Alexander, M. Brusa, F.E. Bauer, A. Comastri, A.C. Fabian, R. Gilli, B.D. Lehmer, D.A. Rafferty, D.P. Schneider and C. Vignali: Revealing a Population of Heavily Obscured Active Galactic Nuclei at z $\sim$ 0.5-1 in the Chandra Deep Field-South. Ap. J. 740, 37 (2011).

Lusso, E., A. Comastri, C. Vignali, G. Zamorani, E. Treister, D. Sanders, M. Bolzonella, A. Bongiorno, M. Brusa, F. Civano, R. Gilli, V. Mainieri, P. Nair, M.C. Aller, M. Carollo, A.M. Koekemoer, A. Merloni and J.R. Trump: The bolometric output and host-galaxy properties of obscured AGN in the XMM-COSMOS survey. Astron. Astrophys. 534, A110 (2011).

Lutz, D., A. Poglitsch, B. Altieri, P. Andreani, H. Aussel, S. Berta, A. Bongiovanni, D. Brisbin, A. Cava, J. Cepa, A. Cimatti, E. Daddi, H. Dominguez-Sanchez, D. Elbaz, N.M. Förster Schreiber, R. Genzel, A. Grazian, C. Gruppioni, M. Harwit, E. Le Floc'h, G. Magdis, B. Magnelli, R. Maiolino, R. Nordon, A.M. Pérez García, P. Popesso, F. Pozzi, L. Riguccini, G. Rodighiero, A. Saintonge, M. Sanchez Portal, P. Santini, L. Shao, E. Sturm, L.J. Tacconi, I. Valtchanov, M. Wetzstein and E. Wieprecht: PACS Evolutionary Probe (PEP) - A Herschel key program. Astron. Astrophys. 532, A90 (2011).

Magdis, G.E., D. Elbaz, M. Dickinson, H.S. Hwang, V. Charmandaris, L. Armus, E. Daddi, E. Le Floc'h, H. Aussel, H. Dannerbauer, D. Rigopoulou, V. Buat, G. Morrison, J. Mullaney, D. Lutz, D. Scott, D. Coia, A. Pope, M. Pannella, B. Altieri, D. Burgarella, M. Bethermin, K. Dasyra, J. Kartaltepe, R. Leiton, B. Magnelli, P. Popesso and I. Valtchanov: GOODS-Herschel: a population of 24 μm dropout sources at z $<$ 2. Astron. Astrophys. 534, A15 (2011).

Magliocchetti, M., P. Santini, G. Rodighiero, A. Grazian, H. Aussel, B. Altieri, P. Andreani, S. Berta, J. Cepa, H. Castañeda, A. Cimatti, E. Daddi, D. Elbaz, R. Genzel, C. Gruppioni, D. Lutz, B. Magnelli, R. Maiolino, P. Popesso, A. Poglitsch, F. Pozzi, M. Sanchez-Portal, N.M. Förster Schreiber, E. Sturm, L. Tacconi and I. Valtchanov: The PEP survey: clustering of infrared-selected galaxies and structure formation at z $\sim$ 2 in GOODS-South. Mon. Not. R. Astron. Soc. 416, 1105-1117 (2011).

Magnelli, B., D. Elbaz, R.R. Chary, M. Dickinson, D. Le Borgne, D.T. Frayer and C.N.A. Willmer: Evolution of the dusty infrared luminosity function from z = 0 to z = 2.3 using observations from Spitzer. Astron. Astrophys. 528, A35 (2011).

Mainieri, V., A. Bongiorno, A. Merloni, ..., M. Brusa, et al.: Black hole accretion and host galaxies of obscured quasars in XMM-COSMOS. Astron. Astrophys. 535, A80 (2011).

Maio, U. and F. Iannuzzi: Baryon history and cosmic star formation in non-Gaussian cosmological models: numerical simulations. Mon. Not. R. Astron. Soc. 415, 3021-3032 (2011).

Maio, U., L.V.E. Koopmans and B. Ciardi: The impact of primordial supersonic flows on early structure formation, reionization and the lowest-mass dwarf galaxies. Mon. Not. R. Astron. Soc. 412, L40-L44 (2011).

Maio, U., S. Khochfar, J.L. Johnson and B. Ciardi: The interplay between chemical and mechanical feedback from the first generation of stars. Mon. Not. R. Astron. Soc. 414, 1145-1157 (2011).

Maio, U.: Gas distribution, metal enrichment and baryon fraction in Gaussian and non-Gaussian universes. Classical and Quantum Gravity 28, 225015 (2011).

Mancini, C., N.M. Förster Schreiber, A. Renzini, G. Cresci, E.K.S. Hicks, Y. Peng, D. Vergani, S. Lilly, M. Carollo, L. Pozzetti, G. Zamorani, E. Daddi, R. Genzel, C. Maraston, H.J. McCracken, L. Tacconi, N. Bouché, R. Davies, P. Oesch, K. Shapiro, V.

Mainieri, D. Lutz, M. Mignoli and A. Sternberg: The zCOSMOS-SINFONI Project. I. Sample Selection and Natural-seeing Observations. Ap. J. 743, 86 (2011).

Marghitu, O., C. Bunescu, T. Karlsson, B. Klecker and H.C. Stenbaek-Nielsen: On the divergence of the auroral electrojets. J. Geophys. Res. (Space Phys.) 116, 0 (2011).

Markovic, K., S. Bridle, A. Slosar and J. Weller: Constraining warm dark matter with cosmic shear power. J. of Cosmology and Astroparticle Phys. 01, 022 (2011).

Marshall, J.P., T. Löhne, B. Montesinos, ..., D. Fedele, et al.: A Herschel resolved far-infrared dust ring around HD 207129. Astron. Astrophys. 529, A117-A123 (2011).

Martinez-Valpuesta, I. and O. Gerhard: Unifying A Boxy Bulge and Planar Long Bar in the Milky Way. Ap. J. Lett. 734, L20 (2011).

Matsuda, Y., I. Smail, J.E. Geach, P.N. Best, D. Sobral, I. Tanaka, F. Nakata, K. Ohta, J. Kurk, I. Iwata, R. Bielby, J.L. Wardlow, R.G. Bower, R.J. Ivison, T. Kodama, T. Yamada, K. Mawatari and M. Casali: An Hα search for overdense regions at z = 2.23. Mon. Not. R. Astron. Soc. 416, 2041-2059 (2011).

Matsukiyo, S. and M. Scholer: Microstructure of the heliospheric termination shock: Full particle electrodynamic simulations. Journal of Geophys. Res. 116, Issue A8, A08106 (2011).

McCarthy, I.G., J. Schaye, R.G. Bower, T.J. Ponman, C.M. Booth, C. Dalla Vecchia and V. Springel: Gas expulsion by quasar-driven winds as a solution to the overcooling problem in galaxy groups and clusters. Mon. Not. R. Astron. Soc. 412, 1965-1984 (2011).

McGee, S.L., M.L. Balogh, D.J. Wilman, R.G. Bower, J.S. Mulchaey, L.C. Parker and A. Oemler: The Dawn of the Red: star formation histories of group galaxies over the past 5 billion years. Mon. Not. R. Astron. Soc. 413, 996-1012 (2011).

McGurk, R.C., C.E. Max, D.J. Rosario, G.A. Sheilds, K.L. Smith and S.A. Wright: Spatially Resolved Spectroscopy of SDSS J0952+2552: A Confirmed Dual Active Galactic Nucleus. Ap. J. Lett. 738, L2, (2011).

Medling, A., S.M. Ammons, C. Max, R. Davies, H. Engel and G. Canalizo: Mass of the Southern Black Hole in NGC 6240 from Laser Guide Star Adaptive Optics. Ap. J. 743, 32, (2011).

Meech, K.J., M.F. A'Hearn, J.A. Adams, ..., K. Dennerl, et al.: EPOXI: Comet 103P/Hartley 2 Observations from a Worldwide Campaign. Ap. J. Lett. 734, L1 (2011).

Mereghetti, S., A. Tiengo, P. Esposito, G. Vianello, A. de Luca, D. Götz, G. Weidenspointner, A. von Kienlin, G.L. Israel, L. Stella, N. Rea, R. Turolla and S. Zane: Two magnetars: SGR 1627-41 and 1E 1547-5408. Adv. Space Res. 47, 1312-1316 (2011).

Mignani, R.P., S. Zane, R. Turolla, F. Haberl, M. Cropper, C. Motch, A. Treves and L. Zampieri: VLT/FORS2 observations of the optical counterpart of the isolated neutron star RBS 1774. Astron. Astrophys. 530, A39 (2011).

Mitic, S., M.Y. Pustylnik, G.E. Morfill and E. Kovačević: In situ characterization of nanoparticles during growth by means of white light scattering. Optics Letters 36, 3699 (2011).

Mittal, R., C.P. O'Dea, G. Ferland, J.B.R. Oonk, A.C. Edge, R.E.A. Canning, H. Russell, S.A. Baum, H. Böhringer, F. Combes, M. Donahue, A.C. Fabian, N.A. Hatch, A. Hoffer, R. Johnstone, B.R. McNamara, P. Salomé and G. Tremblay: Herschel observations of the Centaurus cluster - the dynamics of cold gas in a cool core. Mon. Not. R. Astron. Soc. 418, 2386-2402 (2011).

Mortier, A., I. Oliveira and E.F. van Dishoeck: Spectroscopic properties of young stellar objects in the Lupus molecular clouds. Mon. Not. R. Astron. Soc. 418, 1194-1207 (2011).

Müller, T.G., J. Ďurech, S. Hasegawa, M. Abe, K. Kawakami, T. Kasuga, D. Kinoshita, D. Kuroda, S. Urakawa, S. Okumura, Y. Sarugaku, S. Miyasaka, Y. Takagi, P.R. Weissman, Y.-J. Choi, S. Larson, K. Yanagisawa and S. Nagayama: Thermo-physical properties of 162173 (1999 JU3), a potential flyby and rendezvous target for interplanetary missions. Astron. Astrophys. 525, A145 (2011).

Müller-Sánchez, F., M.A. Prieto, E.K.S. Hicks, H. Vives-Arias, R.I. Davies, M. Malkan, L.J. Tacconi and R. Genzel: Outflows from Active Galactic Nuclei: Kinematics of the Narrow-line and Coronal-line Regions in Seyfert Galaxies. Ap. J. 739, 69 (2011).

Müller, A., M.E. van den Ancker, R. Launhardt, J.U. Pott, D. Fedele and Th. Henning: HD 135344B: a young star has reached its rotational limit. Astron. Astrophys. 530, 85 (2011).

Nandra, K., D. Barret, F. Fabian, F. Fabian, R. Willingdale, M. Watson, P. Jonker, H. Kunieda, G. Miniutti, C. Motch, and P. Predehl: GRAVITAS: general relativistic astrophysics via timing and spectroscopy. In: "Experimental Astronomy - Astrophysical Instrumentation and Methods". P. Ballmoos (Ed.) Springer Science+Business Media B.V. 2011, 1-18 (2011).

Napolitano, N.R., A.J. Romanowsky, M. Capaccioli, N.G. Douglas, M. Arnaboldi, L. Coccato, O. Gerhard, K. Kuijken, M.R. Merrifield, S.P. Bamford, A. Cortesi, P. Das and K.C. Freeman: The PN.S Elliptical Galaxy Survey: a standard ΛCDM halo around NGC 4374?. Mon. Not. R. Astron. Soc. 411, 2035-2053 (2011).

Nardini, M., J. Greiner, T. Krühler, R. Filgas, S. Klose, P. Afonso, C. Clemens, A.N. Guelbenzu, F. Olivares E., A. Rau, A. Rossi, A. Updike, A. Küpcü Yoldaş, A. Yoldaş, D. Burlon, J. Elliott and D.A. Kann: On the nature of the extremely fast optical rebrightening of the afterglow of GRB 081029. Astron. Astrophys. 531, A39 (2011).

Nastasi, A., R. Fassbender, H. Böhringer, R. Šuhada, P. Rosati, D. Pierini, M. Verdugo, J.S. Santos, A.D. Schwope, A. de Hoon, J. Kohnert, G. Lamer, M. Mühlegger and H. Quintana: Discovery of the X-ray selected galaxy cluster XMMU J0338.8+0021 at z = 1.49. Indications of a young system with a brightest galaxy in formation. Astron. Astrophys. 532, L6 (2011).

Neistein, E., C. Li, S. Khochfar, S.M. Weinmann, F. Shankar and M. Boylan-Kolchin: A tale of two populations: the stellar mass of central and satellite galaxies. Mon. Not. R. Astron. Soc. 416, 1486-1499 (2011).

Neistein, E., S.M. Weinmann, C. Li and M. Boylan-Kolchin: Linking haloes to galaxies: how many halo properties are needed?. Mon. Not. R. Astron. Soc. 414, 1405-1417 (2011).

Nicuesa Guelbenzu, A., S. Klose, A. Rossi, D.A. Kann, T. Krühler, J. Greiner, A. Rau, F. Olivares E., P.M.J. Afonso, R. Filgas, A. Küpcü Yoldaş, S. McBreen, M. Nardini, P. Schady, S. Schmidl, A.C. Updike and A. Yoldaş: GRB 090426: Discovery of a jet break in a short burst afterglow. Astron. Astrophys. 531, L6 (2011).

Ninković, J., L. Andričeк, C. Jendrisyk, G. Liemann, G. Lutz, H.-G. Moser, R. Richter and F. Schopper: The first measurements on SiPMs with bulk integrated quench resistors. Nucl. Instrum. Methods Phys. Res. (A) 628, 407-410 (2011).

Nosenko, V., G.E. Morfill and P. Rosakis: Direct Experimental Measurement of the Speed-Stress Relation for Dislocations in a Plasma Crystal. Phys. Rev. Lett. 106, 155002 (2011).

Noutsos, A., A.A. Abdo, M. Ackermann, ..., A. von Kienlin, et al.: Radio and γ-ray Constraints on the Emission Geometry and Birthplace of PSR J2043+2740. Ap. J. 728, 77 (2011).

Novara, G., N. La Palombara, S. Mereghetti, F. Haberl, M. Coe, M. Filipovic, A. Udalski, A. Paizis, W. Pietsch, R. Sturm, M. Gilfanov, A. Tiengo, J. Payne, D. Smits and

A. de Horta: Highly absorbed X-ray binaries in the Small Magellanic Cloud. Astron. Astrophys. 532, A153 (2011).

Ntormousi, E., A. Burkert, K. Fierlinger and F. Heitsch: Formation of Cold Filamentary Structure from Wind-blown Superbubbles. Ap. J. 731, 13 (2011).

Öberg, K.I., A.C.A. Boogert, K.M. Pontoppidan, S. van den Broek, E.F. van Dishoeck, S. Bottinelli, G.A. Blake and N.J. Evans II: The Spitzer Ice Legacy: Ice Evolution from Cores to Protostars. Ap. J. 740, 109 (2011).

Öberg, K.I., N. van der Marel, L.E. Kristensen and E.F. van Dishoeck: Complex Molecules toward Low-mass Protostars: The Serpens Core. Ap. J. 740, 14 (2011).

Oliveira, I., J. Olofsson, K.M. Pontoppidan, E.F. van Dishoeck, J.-C. Augereau and B. Merín: On the Evolution of Dust Mineralogy, from Protoplanetary Disks to Planetary Systems. Ap. J. 734, 51 (2011).

Oliveira, I., R.A. Overzier, K.M. Pontoppidan, E.F. van Dishoeck and L. Spezzi: VLT/X-shooter Spectroscopy of a dusty planetary nebula discovered with Spitzer/IRS. Astron. Astrophys. 526, A41 (2011).

Olofsson, J., M. Benisty, J.-C. Augereau, C. Pinte, F. Ménard, E. Tatulli, J.-P. Berger, F. Malbet, B. Merín, E.F. van Dishoeck, S. Lacour, K.M. Pontoppidan, J.-L. Monin, J.M. Brown and G.A. Blake: Warm dust resolved in the cold disk around T Chamaeleontis with VLTI/AMBER. Astron. Astrophys. 528, L6 (2011).

Orban de Xivry, G., R. Davies, M. Schartmann, S. Komossa, A. Marconi, E. Hicks, H. Engel and L. Tacconi: The role of secular evolution in the black hole growth of narrow-line Seyfert 1 galaxies. Mon. Not. R. Astron. Soc. 417, 2721-2736 (2011).

Ordavo, I., S. Ihle, V. Arkadiev, O. Scharf, H. Soltau, A. Bjeoumikhov, S. Bjeoumikhova, G. Buzanich, R. Gubzhokov, A. Günther, R. Hartmann, P. Holl, N. Kimmel, M. Kühbacher, M. Lang, N. Langhoff, A. Liebel, M. Radtke, U. Reinholz, H. Riesemeier, G. Schaller, F. Schopper, L. Strüder, C. Thamm and R. Wedell: A new pnCCD-based color X-ray camera for fast spatial and energy-resolved measurements. Nucl. Instrum. Methods Phys. Res. (A) 654, 250-257 (2011).

Oteo, I., A. Bongiovanni, A.M. Pérez García, J. Cepa, A. Ederoclite, M. Sánchez-Portal, I. Pintos-Castro, D. Lutz, S. Berta, E. Le Floc'h, B. Magnelli, P. Popesso, F. Pozzi, L. Riguccini, B. Altieri, P. Andreani, H. Aussel, A. Cimatti, E. Daddi, D. Elbaz, N. Förster Schreiber, R. Genzel, R. Maiolino, A. Poglitsch, E. Sturm, L. Tacconi and I. Valtchanov: FIR Measurements of Lyα Emitters at z $< \sim$ 1.0: Dust Attenuation from PACS-Herschel. Ap. J. Lett. 735, L15 (2011).

Owen, R.A., M.D. Filipović, J. Ballet, F. Haberl, E.J. Crawford, J.L. Payne, R. Sturm, W. Pietsch, S. Mereghetti, M. Ehle, A. Tiengo, M.J. Coe, D. Hatzidimitriou and D.A.H. Buckley: IKT 16: a composite supernova remnant in the Small Magellanic Cloud. Astron. Astrophys. 530, A132 (2011).

Paardekooper, J.-P., F.I. Pelupessy, G. Altay and C.J.H. Kruip: The escape of ionising radiation from high-redshift dwarf galaxies. Astron. Astrophys. 530, A87 (2011).

Page, K.L., R.L.C. Starling, G. Fitzpatrick, S.B. Pandey, J.P. Osborne, P. Schady, S. McBreen, S. Campana, T.N. Ukwatta, C. Pagani, A.P. Beardmore and P.A. Evans: GRB 090618: detection of thermal X-ray emission from a bright gamma-ray burst. Mon. Not. R. Astron. Soc. 416, 2078-2089 (2011).

Pasquali, A., A. Bik, S. Zibetti, N. Ageorges, W. Seifert, W. Brandner, H.-W. Rix, M. Jütte, V. Knierim, P. Buschkamp, C. Feiz, H. Gemperlein, A. Germeroth, R. Hofmann, W. Laun, R. Lederer, M. Lehmitz, R. Lenzen, U. Mall, H. Mandel, P. Müller, V. Naranjo, K. Polsterer, A. Quirrenbach, L. Schäffner, C. Storz and P. Weiser: Infrared Narrowband Tomography of the Local Starburst NGC 1569 with the Large Binocular Telescope/LUCIFER. Astron. J. 141, 132 (2011).

Petric, A.O., L. Armus, J. Howell, B. Chan, J.M. Mazzarella, A.S. Evans, J.A. Surace, D. Sanders, P. Appleton, V. Charmandaris, T. Díaz-Santos, D. Frayer, S. Haan, H. Inami, K. Iwasawa, D. Kim, B. Madore, J. Marshall, H. Spoon, S. Stierwalt, E. Sturm, V. U, T. Vavilkin and S. Veilleux: Mid-Infrared Spectral Diagnostics of Luminous Infrared Galaxies. Ap. J. 730, 28 (2011).

Pfuhl, O., T.K. Fritz, M. Zilka, H. Maness, F. Eisenhauer, R. Genzel, S. Gillessen, T. Ott, K. Dodds-Eden and A. Sternberg: The Star Formation History of the Milky Way's Nuclear Star Cluster. Ap. J. 741, 108 (2011).

Phan, T.D., T.E. Love, J.T. Gosling, G. Paschmann, J.P. Eastwood, M. Oieroset, V. Angelopoulos, J.P. McFadden, D. Larson and U. Auster: Triggering of magnetic reconnection in a magnetosheath current sheet due to compression against the magnetopause. Geophys. Res. Lett. 38, 17101 (2011).

Pierini, D., S. Giodini, A. Finoguenov, H. Böhringer, E. D'Onghia, G.W. Pratt, J. Démoclès, M. Pannella, S. Zibetti, F.G. Braglia, M. Verdugo, F. Ziparo, A.M. Koekemoer, M. Salvato and COSMOS Collaboration: Two fossil groups of galaxies at z $\sim$ 0.4 in the Cosmic Evolution Survey: accelerated stellar-mass build-up, different progenitors. Mon. Not. R. Astron. Soc. 417, 2927-2937 (2011).

Pietsch, W., M. Henze, F. Haberl, M. Hernanz, G. Sala, D.H. Hartmann and M. Della Valle: Nova M31N 2007-12b: supersoft X-rays reveal an intermediate polar?. Astron. Astrophys. 531, A22 (2011).

Piranomonte, S., S.D. Vergani, F. Onori, S. Savaglio, E. Palazzi, H. Flores, S. Covino, P. Goldoni, S. Randich, F. Hammer, E. Pian and G. Tagliaferri: GRB host galaxies studies with X-shooter. Astron. Nachr. 332, 283 (2011).

Polletta, M.P., N.P.H. Nesvadba, R.N. Neri, A.O. Omont, S.B. Berta and J.B. Bergeron: Disk, merger, or outflow? Molecular gas kinematics in two powerful obscured QSOs at z $\geq$ 3.4. Astron. Astrophys. 533, A20, (2011).

Popesso, P., G. Rodighiero, A. Saintonge, P. Santini, A. Grazian, D. Lutz, M. Brusa, B. Altieri, P. Andreani, H. Aussel, S. Berta, A. Bongiovanni, A. Cava, J. Cepa, A. Cimatti, E. Daddi, H. Dominguez, D. Elbaz, N. Förster Schreiber, R. Genzel, C. Gruppioni, G. Magdis, R. Maiolino, B. Magnelli, R. Nordon, A.M. Pérez García, A. Poglitsch, F. Pozzi, L. Riguccini, M. Sanchez-Portal, L. Shao, E. Sturm, L. Tacconi, I. Valtchanov, E. Wieprecht and M. Wetzstein: The effect of environment on star forming galaxies at redshift. I. First insight from PACS. Astron. Astrophys. 532, A145 (2011).

Prantzos, N., C. Boehm, A.M. Bykov, R. Diehl, K. Ferrière, N. Guessoum, P. Jean, J. Knoedlseder, A. Marcowith, I.V. Moskalenko, A. Strong and G. Weidenspointner: The 511 keV emission from positron annihilation in the Galaxy. Reviews of Modern Physics 83, 1001-1056 (2011).

Racusin, J.L., S.R. Oates, P. Schady, D.N. Burrows, M. de Pasquale, D. Donato, N. Gehrels, S. Koch, J. McEnery, T. Piran, P. Roming, T. Sakamoto, C. Swenson, E. Troja, V. Vasileiou, F. Virgili, D. Wanderman and B. Zhang: Fermi and Swift Gamma-ray Burst Afterglow Population Studies. Ap. J. 738, 138 (2011).

Reichert, A., H. Böhringer, R. Fassbender and M. Mühlegger: Observational constraints on the redshift evolution of X-ray scaling relations of galaxy clusters out to z $\sim$ 1.5. Astron. Astrophys. 535, A4 (2011).

Rigliaco, E., A. Natta, S. Randich, L. Testi, E. Covino, G. Herczeg and J.M. Alcalá: X-shooter observations of the accreting brown dwarf J053825.4-024241. Astron. Astrophys. 526, L6 (2011).

Rodighiero, G., E. Daddi, I. Baronchelli, A. Cimatti, A. Renzini, H. Aussel, P. Popesso, D. Lutz, P. Andreani, S. Berta, A. Cava, D. Elbaz, A. Feltre, A. Fontana, N.M. Förster Schreiber, A. Franceschini, R. Genzel, A. Grazian, C. Gruppioni, O. Ilbert, E. Le Floc'h, G. Magdis, M. Magliocchetti, B. Magnelli, R. Maiolino, H. McCracken, R.

Nordon, A. Poglitsch, P. Santini, F. Pozzi, L. Riguccini, L.J. Tacconi, S. Wuyts and G. Zamorani: The Lesser Role of Starbursts in Star Formation at z = 2. Ap. J. Lett. 739, L40 (2011).

Roediger, E., M. Brüggen, A. Simionescu, H. Böhringer, E. Churazov and W.R. Forman: Gas sloshing, cold front formation and metal redistribution: the Virgo cluster as a quantitative test case. Mon. Not. R. Astron. Soc. 413, 2057-2077 (2011).

Romanzin, C., S. Ioppolo, H.M. Cuppen, E.F. van Dishoeck and H. Linnartz: Water formation by surface O3 hydrogenation. Journal of Chemical Physics 134, 084504 (2011).

Rosario, D.J., R.C. McGurk, C.E. Max, G.A. Shields, K.L. Smith and S.A. Ammons: Adaptive Optics Imaging of Quasi-stellar Objects with Double-peaked Narrow Lines: Are They Dual Active Galactic Nuclei? Ap. J. 739, 44 (2011).

Ross, A.J., S. Ho, A.J. Cuesta, R. Tojeiro, W.J. Percival, D. Wake, K.L. Masters, R.C. Nichol, A.D. Myers, F. de Simoni, H.J. Seo, C. Hernández-Monteagudo, R. Crittenden, M. Blanton, J. Brinkmann, L.A.N. da Costa, H. Guo, E. Kazin, M.A.G. Maia, C. Maraston, N. Padmanabhan, F. Prada, B. Ramos, A. Sanchez, E.F. Schlafly, D.J. Schlegel, D.P. Schneider, R. Skibba, D. Thomas, B.A. Weaver, M. White and I. Zehavi: Ameliorating systematic uncertainties in the angular clustering of galaxies: a study using the SDSS-III. Mon. Not. R. Astron. Soc. 417, 1350-1373 (2011).

Rossetto, B.M., B.X.Santiago, L. Girardi, J.I.B. Camargo, E. Balbinot, L.N. da Costa, B. Yanny, M.A.G. Maia, M. Makler, R.L.C. Ogando, P.S. Pellegrini, B. Ramos, F. de Simoni, R. Armstrong, E. Bertin, S. Desai, N. Kuropatkin, H. Lin, J.J. Mohr and D.L. Tucker: The Dark Energy Survey: Prospects for Resolved Stellar Populations. Astron. Journal 141, 185 (2011).

Rossi, A., S. Schulze, S. Klose, D.A. Kann, A. Rau, H.A. Krimm, G. Jóhannesson, A. Panaitescu, F. Yuan, P. Ferrero, T. Krühler, J. Greiner, P. Schady, S.B. Pandey, L. Amati, P.M.J. Afonso, C.W. Akerlof, L.A. Arnold, C. Clemens, R. Filgas, D.H. Hartmann, A. Küpcü Yoldaş, S. McBreen, T.A. McKay, A. Nicuesa Guelbenzu, F. Olivares E., B. Paciesas, E.S. Rykoff, G. Szokoly, A.C. Updike and A. Yoldaş: The Swift/Fermi GRB 080928 from 1 eV to 150 keV. Astron. Astrophys. 529, A142 (2011).

Rossmanith, G., H. Modest, C. Räth, A.J. Banday, K.M. Górski and G. Morfill: Search for Non-Gaussianities in the WMAP Data with the Scaling Index Method. Adv. Astron. 2011, id. 174873 (2011).

Rovilos, E., S. Fotopoulou, M. Salvato, V. Burwitz, E. Egami, G. Hasinger and G. Szokoly: Optical and infrared properties of active galactic nuclei in the Lockman Hole. Astron. Astrophys. 529, A135 (2011).

Rusli, S.P., J. Thomas, P. Erwin, R.P. Saglia, N. Nowak and R. Bender: The central black hole mass of the high- but low-bulge-luminosity lenticular galaxy NGC 1332. Mon. Not. R. Astron. Soc. 410, 1223-1236 (2011).

Räth, C., A.J. Banday, G. Rossmanith, H. Modest, R. Sütterlin, K.M. Górski, J. Delabrouille and G.E. Morfill: Scale-dependent non-Gaussianities in the WMAP data as identified by using surrogates and scaling indices. Mon. Not. R. Astron. Soc. 415, 2205-2214 (2011).

Saintonge, A. and K. Spekkens: Disk Galaxy Scaling Relations in the SFI++: Intrinsic Scatter and Applications. Ap. J. 726, 77 (2011).

Saintonge, A., G. Kauffmann, C. Kramer, L.J. Tacconi, C. Buchbender, B. Catinella, S. Fabello, J. Graciá-Carpio, J. Wang, L. Cortese, J. Fu, R. Genzel, R. Giovanelli, Q. Guo, M.P. Haynes, T.M. Heckman, M.R. Krumholz, J. Lemonias, C. Li, S. Moran, N. Rodriguez-Fernandez, D. Schiminovich, K. Schuster and A. Sievers: COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - I. Relations between H_2, H I, stellar content and structural properties. Mon. Not. R. Astron. Soc. 415, 32-60 (2011).

Saintonge, A., G. Kauffmann, J. Wang, C. Kramer, L.J. Tacconi, C. Buchbender, B. Catinella, J. Graciá-Carpio, L. Cortese, S. Fabello, J. Fu, R. Genzel, R. Giovanelli, Q. Guo, M.P. Haynes, T.M. Heckman, M.R. Krumholz, J. Lemonias, C. Li, S. Moran, N. Rodriguez-Fernandez, D. Schiminovich, K. Schuster and A. Sievers: COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - II. The non-universality of the molecular gas depletion time-scale. Mon. Not. R. Astron. Soc. 415, 61-76 (2011).

Salvato, M., O. Ilbert, G. Hasinger, A. Rau, ..., M. Brusa, ..., A. Bongiorno, et al.: Dissecting Photometric Redshift for Active Galactic Nucleus Using XMM- and Chandra-COSMOS Samples. Ap. J. 742, 61 (2011).

Samsonov, D., C. Durniak, C. Knapek and G. Morfill: Defect-Induced Deformations in Complex Plasmas. IEEE Trans. Plasma Sci. 39, 2738-2739 (2011).

Samsonov, D., C. Durniak, S. Zhdanov and G. Morfill: Tsunami in a Complex (Dusty) Plasma. IEEE Trans. Plasma Sci. 39, 2736-2737 (2011).

Santos, J.S., R. Fassbender, A. Nastasi, H. Böhringer, P. Rosati, R. Šuhada, D. Pierini, M. Nonino, M. Mühlegger, H. Quintana, A.D. Schwope, G. Lamer, A. de Hoon and V. Strazzullo: Discovery of a massive X-ray luminous galaxy cluster at z = 1.579. Astron. Astrophys. 531, L15 (2011).

Sasaki, M., D. Breitschwerdt, V. Baumgartner and F. Haberl: XMM-Newton observations of the superbubble in N 158 in the LMC. Astron. Astrophys. 528, A136 (2011).

Savin, S.F., L.G. D'Yachkov, M.I. Myasnikov, O.F. Petrov, M.M. Vasiliev, V.E. Fortov, A.Y. Kaleri, A.I. Borisenko and G.E. Morfill: Coulomb ensemble of charged diamagnetic macroparticles in an inhomogeneous magnetic field under microgravity conditions. Soviet J. Exp. and Theo. Phys. Lett. 94, 508-512 (2011).

Schady, P., S. Savaglio, T. Krühler, J. Greiner and A. Rau: The missing gas problem in GRB host galaxies: evidence for a highly ionised component. Astron. Astrophys. 525, A113 (2011).

Schartmann, M., M. Krause and A. Burkert: Radiation feedback on dusty clouds during Seyfert activity. Mon. Not. R. Astron. Soc. 415, 741-752 (2011).

Scharwächter, J., M.A. Dopita, J. Zuther, S. Fischer, S. Komossa and A. Eckart: Extended Narrow-line Emission in the Bright Seyfert 1.5 Galaxy HE 2211-3903. Astron. J. 142, 43 (2011).

Schulze, S., S. Klose, G. Björnsson, P. Jakobsson, D.A. Kann, A. Rossi, T. Krühler, J. Greiner and P. Ferrero: The circumburst density profile around GRB progenitors: a statistical study. Astron. Astrophys. 526, A23 (2011).

Schurch, M.P.E., M.J. Coe, V.A. McBride, L.J. Townsend, A. Udalski, F. Haberl and R.H.D. Corbet: Orbital period determinations for four SMC Be/X-ray binaries. Mon. Not. R. Astron. Soc. 412, 391-400 (2011).

Schwabe, M., K. Jiang, S. Zhdanov, T. Hagl, P. Huber, A.V. Ivlev, A.M. Lipaev, V.I. Molotkov, V.N. Naumkin, K.R. Sütterlin, H.M. Thomas, V.E. Fortov, G.E. Morfill, A. Skvortsov and S. Volkov: Direct measurement of the speed of sound in a complex plasma under microgravity conditions. EPL (Europhysics Letters) 96, 55001 (2011).

Schwabe, M., L.-J. Hou, S. Zhdanov, A.V. Ivlev, H.M. Thomas and G.E. Morfill: Convection in a dusty radio-frequency plasma under the influence of a thermal gradient. New J. Phys. 13, 083034 (2011).

Schwabe, M., S. Zhdanov, M. Rubin-Zuzic, A. Ivlev, H. Thomas and G. Morfill: Bursting Bubbles in a Complex Plasma. IEEE Trans. Plasma Sci. 39, 2726-2727 (2011).

Schwabe, M., U. Konopka, P. Bandyopadhyay and G.E. Morfill: Pattern Formation in a Complex Plasma in High Magnetic Fields. Phys. Rev. Lett. 106, 215004 (2011).

Seibert, M.M., T. Ekeberg, F.R.N.C. Maia, ..., N. Kimmel, ..., D. Pietschner, G. Weiden-

spointner, L. Strüder, G. Hauser, ..., S. Herrmann, G. Schaller, F. Schopper,..., R. Andritschke, et al.: Single mimivirus particles intercepted and imaged with an X-ray laser. Nature 470, 78-81 (2011).

Shimizu, S.S., T.S. Shimizu, W.J. Jacob, H.T. Thomas and G.M. Morfill: Levitation and collection of diamond fine particles in the rf plasma chamber equipped with a hot filament. Phys. Plasmas 18, 113703 (2011).

Shimizu, T., J.L. Zimmermann and G.E. Morfill: The bactericidal effect of surface micro-discharge plasma under different ambient conditions. New J. Phys. 13, 023026 (2011).

Shimizu, T., Y. Iwafuchi, G.E. Morfill and T. Sato: Formation of thermal flow fields and chemical transport in air and water by atmospheric plasma. New J. Phys. 13, 053025 (2011).

Shimizu, T.S., Y.I. Iwafuchi, G.E. M. Morfill and T.S. Sato: Transport Mechanism of Chemical Species in a Pin-water Atmospheric Discharge driven by Negative Voltage. Journal of Photopolymer Science and Technology 24, 421-427 (2011).

Shirokoff, E., C.L. Reichardt, L. Shaw, ..., J.J. Mohr, et al.: Improved Constraints on Cosmic Microwave Background Secondary Anisotropies from the Complete 2008 South Pole Telescope Data. Ap. J. 736 (2011).

Sidorenko, I., R. Monetti, J. Bauer, D. Mueller, E. Rummeny, F. Eckstein, M. Matsuura, E.-M. Lochmueller, P. Zysset and C. Raeth: Assessing Methods for Characterising Local and Global Structural and Biomechanical Properties of the Trabecular Bone Network. Current Medicinal Chemistry 18, 3402-3409 (2011).

Sidorenko, I., R. Monetti, J. Bauer, J. Bauer and C. Raeth: Scaling Index Method (SIM): a Novel Technique for Assessment of Local Topological Properties of porous and Irregular Structures. In: "Computed Tomography - Special Applications", L. Saba (Ed.), InTech – Open Access Publisher, Rijeka, Croatia, 275-292 (2011).

Siebert, A., M.E.K. Williams, A. Siviero, W. Reid, C. Boeche, M. Steinmetz, J. Fulbright, U. Munari, T. Zwitter, F.G. Watson, R.F.G. Wyse, R.S. de Jong, H. Enke, B. Anguiano, D. Burton, C.J.P. Cass, K. Fiegert, M. Hartley, A. Ritter, K.S. Russel, M. Stupar, O. Bienaymé, K.C. Freeman, G. Gilmore, E.K. Grebel, A. Helmi, J.F. Navarro, J. Binney, J. Bland-Hawthorn, R. Campbell, B. Famaey, O. Gerhard, B.K. Gibson, G. Matijevič, Q.A. Parker, G.M. Seabroke, S. Sharma, M.C. Smith and E. Wylie-de Boer: The RAdial Velocity Experiment (RAVE): Third Data Release. Astron. J. 141, 187 (2011).

Silverman, J.D., P. Kampczyk, K. Jahnke, R. Andrae, S.J. Lilly, M. Elvis, F. Civano, V. Mainieri, C. Vignali, G. Zamorani, P. Nair, O. Le Fèvre, L. de Ravel, S. Bardelli, A. Bongiorno, M. Bolzonella, A. Cappi, K. Caputi, C.M. Carollo, T. Contini, G. Coppa, O. Cucciati, S. de la Torre, P. Franzetti, B. Garilli, C. Halliday, G. Hasinger, A. Iovino, C. Knobel, A.M. Koekemoer, K. Kovač, F. Lamareille, J.-F. Le Borgne, V. Le Brun, C. Maier, M. Mignoli, R. Pello, E. Pérez-Montero, E. Ricciardelli, Y. Peng, M. Scodeggio, M. Tanaka, L. Tasca, L. Tresse, D. Vergani, E. Zucca, M. Brusa, N. Cappelluti, A. Comastri, A. Finoguenov, H. Fu, R. Gilli, H. Hao, L.C. Ho and M. Salvato: The Impact of Galaxy Interactions on Active Galactic Nucleus Activity in zCOSMOS. Ap. J. 743, 2 (2011).

Smolčić, V., A. Finoguenov, G. Zamorani, E. Schinnerer, M. Tanaka, S. Giodini and N. Scoville: On the occupation of X-ray-selected galaxy groups by radio active galactic nuclei since z = 1.3. Mon. Not. R. Astron. Soc. 416, L31-L35 (2011).

Smolčić, V., P. Capak, O. Ilbert, ..., M. Salvato, et al.: The Redshift and Nature of AzTEC/COSMOS 1: A Starburst Galaxy at z = 4.6. Ap. J. Lett. 731, L27 (2011).

Spavone, M., E. Iodice, M. Arnaboldi, G. Longo and O. Gerhard: Chemical abundances of the PRGs UGC 7576 and UGC 9796. I. Testing the formation scenario. Astron. Astrophys. 531, A21 (2011).

Stiele, H., W. Pietsch, F. Haberl, D. Hatzidimitriou, R. Barnard, B.F. Williams, A.K.H. Kong and U. Kolb: The deep XMM-Newton Survey of M 31. Astron. Astrophys. 534, A55 (2011).

Story, K., K.A. Aird, K. Andersson, ..., J.J. Mohr, et al.: South Pole Telescope Detections of the Previously Unconfirmed Planck Early Sunyaev-Zel'dovich Clusters in the Southern Hemisphere. Ap. J. 735 (2011).

Strong, A.W., E. Orlando and T.R. Jaffe: The interstellar cosmic-ray electron spectrum from synchrotron radiation and direct measurements. Astron. Astrophys. 534, A54 (2011).

Struck, C., C.L. Dobbs and J.-S. Hwang: Slowly breaking waves: the longevity of tidally induced spiral structure. Mon. Not. R. Astron. Soc. 414, 2498-2510 (2011).

Sturm, E., E. González-Alfonso, S. Veilleux, J. Fischer, J. Graciá-Carpio, S. Hailey-Dunsheath, A. Contursi, A. Poglitsch, A. Sternberg, R. Davies, R. Genzel, D. Lutz, L. Tacconi, A. Verma, R. Maiolino and J.A. de Jong: Massive Molecular Outflows and Negative Feedback in ULIRGs Observed by Herschel-PACS. Ap. J. Lett. 733, L16 (2011).

Sturm, R., F. Haberl, J. Greiner, W. Pietsch, N. La Palombara, M. Ehle, M. Gilfanov, A. Udalski, S. Mereghetti and M. Filipović: The XMM-Newton survey of the Small Magellanic Cloud: a new X-ray view of the symbiotic binary SMC 3. Astron. Astrophys. 529, A152 (2011).

Sturm, R., F. Haberl, M.J. Coe, E.S. Bartlett, D.A.H. Buckley, R.H.D. Corbet, M. Ehle, M.D. Filipović, D. Hatzidimitriou, S. Mereghetti, N. La Palombara, W. Pietsch, A. Tiengo, L.J. Townsend and A. Udalski: The XMM-Newton survey of the Small Magellanic Cloud: discovery of the 11.866 s Be/X-ray binary pulsar XMMU J004814.0-732204(SXP11.87). Astron. Astrophys. 527, A131 (2011).

Šuhada, R., R. Fassbender, A. Nastasi, H. Böhringer, A. de Hoon, D. Pierini, J.S. Santos, P. Rosati, M. Mühlegger, H. Quintana, A.D. Schwope, G. Lamer, J. Kohnert and G.W. Pratt: Exploring the galaxy cluster-group transition regime at high redshifts. Physical properties of two newly detected $z > 1$ systems. Astron. Astrophys. 530, A110 (2011).

Tanaka, I., C.D. Breuck, J.D. Kurk, Y. Taniguchi, T. Kodama, Y. Matsuda, C. Packham, A. Zirm, M. Kajisawa, T. Ichikawa, N. Seymour, D. Stern, A. Stockton, B.P. Venemans and J. Vernet: Discovery of an Excess of Hα Emitters around 4C 23.56 at $z = 2.48$. Publ. Astron. Soc. Jpn. 63, 415- (2011).

Tang, J., F.B. Abdalla and J. Weller: Complementarity of future dark energy probes. Mon. Not. R. Astron. Soc. 416, 2212-2232 (2011).

Tang, M., J.S. Hu, J.G. Li, Y.-F. Li, G. Morfill and N. Ashikawa: Recent researches on dust in EAST and HT-7 tokamaks. Journal of Nuclear Materials 415, 1094 (2011).

Teh, W.-L., B.U.Ö. Sonnerup, G. Paschmann and S.E. Haaland: Local structure of directional discontinuities in the solar wind. J. Geophys. Res. (Space Phys.) 116, 4105 (2011).

Teodorescu, A.M., R.H. Méndez, F. Bernardi, J. Thomas, P. Das and O. Gerhard: Planetary Nebulae in the Elliptical Galaxy NGC 4649 (M 60): Kinematics and Distance Redetermination. Ap. J. 736, 65 (2011).

Tepper-García, T., P. Richter, J. Schaye, C.M. Booth, C. Dalla Vecchia, T. Theuns and R.P.C. Wiersma: Absorption signatures of warm-hot gas at low redshift: O VI. Mon. Not. R. Astron. Soc. 413, 190-212 (2011).

Thomas, J., R.P. Saglia, R. Bender, D. Thomas, K. Gebhardt, J. Magorrian, E.M. Corsini, G. Wegner and S. Seitz: Dynamical masses of early-type galaxies: a comparison to lensing results and implications for the stellar initial mass function and the distribution of dark matter. Mon. Not. R. Astron. Soc. 415, 545-562 (2011).

Thielemann, F.-K. R. Hirschi, M. Liebendörfer and R. Diehl: Massive Stars and Their Supernovae. In: "Astronomy with Radioactivities". R. Diehl, D.H. Hartmann, N. Prantzos (Eds.), Lecture Notes in Physiscs, Springer, Berlin, Vol. 812, 153-232 (2011).

Thomas, S.A., S.A. Appleby and J. Weller: Modified gravity: the CMB, weak lensing and general parameterisations. J. of Cosmology and Astroparticle Phys. 03, 036 (2011).

Tomczak, A.R., K.-V.H. Tran and A. Saintonge: A Census of Mid-infrared-selected Active Galactic Nuclei in Massive Galaxy Clusters at $0 < \sim z < \sim 1.3$. Ap. J. 738, 65 (2011).

Townsend, L.J., M.J. Coe, R.H.D. Corbet, V.A. McBride, A.B. Hill, A.J. Bird, M.P.E. Schurch, F. Haberl, R. Sturm, D. Pathak, B. van Soelen, E.S. Bartlett, S.P. Drave and A. Udalski: The orbital solution and spectral classification of the high-mass X-ray binary IGR J01054-7253 in the Small Magellanic Cloud. Mon. Not. R. Astron. Soc. 410, 1813-1824 (2011).

Trap, G., A. Goldwurm, K. Dodds-Eden, A. Weiss, R. Terrier, G. Ponti, S. Gillessen, R. Genzel, P. Ferrando, G. Bélanger, Y. Clénet, D. Rouan, P. Predehl, R. Capelli, F. Melia and F. Yusef-Zadeh: Concurrent X-ray, near-infrared, sub-millimeter, and GeV gamma-ray observations of Sagittarius A*. Astron. Astrophys. 528, A140 (2011).

Traulsen, I., K. Reinsch, A.D. Schwope, V. Burwitz, S. Dreizler, R. Schwarz and F.M. Walter: XMM-Newton observations of the X-ray soft polar QS Telescopii. Astron. Astrophys. 529, A116 (2011).

Tristram, K.R.W. and M. Schartmann: On the size-luminosity relation of AGN dust tori in the mid-infrared. Astron. Astrophys. 531 (2011).

Trotta, R., G. Jóhannesson, I.V. Moskalenko, T.A. Porter, R. Ruiz de Austri and A.W. Strong: Constraints on Cosmic-ray Propagation Models from A Global Bayesian Analysis. Astron. Astrophys. 729, 106-121 (2011).

Trump, J.R., B.J. Weiner, C. Scarlata, D.D. Kocevski, E.F. Bell, E.J. McGrath, D.C. Koo, S.M. Faber, E.S. Laird, M. Mozena, C. Rangel, R. Yan, H. Yesuf, H. Atek, M. Dickinson, J.L. Donley, J.S. Dunlop, H.C. Ferguson, S.L. Finkelstein, N.A. Grogin, N.P. Hathi, S. Juneau, J.S. Kartaltepe, A.M. Koekemoer, K. Nandra, J.A. Newman, S.A. Rodney, A.N. Straughn and H.I. Teplitz: A CANDELS WFC3 Grism Study of Emission-line Galaxies at $z \sim 2$: A Mix of Nuclear Activity and Low-metallicity Star Formation. Ap. J. 743, 144 (2011).

Trümper, J.E.: Observations of neutron stars and the equation of state of matter at high densities. Progress in Particle and Nuclear Physics 66, 674-680 (2011).

Trümper, J.: Endzustände der Materie im Kosmos. In: "Physik im 21. Jahrhundert". W. Martienssen, D. Röß (Eds.), Springer, Berlin, 291-323 (2011).

Tsytovich, V. and G. Morfill: Dust Self-Organized Structures I. Role of Ion Drag and Ion Diffusion on Screened Grains. Contributions to Plasma Physics 51, 707-722 (2011).

Tsytovich, V. and G. Morfill: Dust Self-Organized Structures II. Solutions of Master Equations for Small Diffusion. Contributions to Plasma Physics 51, 723-741 (2011).

Tsytovich, V. and G. Morfill: Dust Self-Organized Structures III. Solutions of Master Equations in Presence of Volume Ionization. Contributions to Plasma Physics 51, 830-843 (2011).

Tyler, K.D., G.H. Rieke, D.J. Wilman, S.L. McGee, R.G. Bower, L. Bai, J.S. Mulchaey, L.C. Parker, Y. Shi and D. Pierini: The Nature of Star Formation at 24 μm in the Group Environment at $0.3 < \sim z < \sim 0.55$. Ap. J. 738, 56 (2011).

Tüllmann, R., T.J. Gaetz, P.P. Plucinsky, K.D. Kuntz, B.F. Williams, W. Pietsch, F. Haberl, K.S. Long, W.P. Blair, M. Sasaki, P.F. Winkler, P. Challis, T.G. Pannuti, R.J. Edgar, D.J. Helfand, J.P. Hughes, R.P. Kirshner, T. Mazeh and A. Shporer: The Chandra ACIS Survey of M33 (ChASeM33): The Final Source Catalog. Ap. J. Supp.

Ser. 193, 31 (2011).

Upadhyaya, N., V. Nosenko, Z.L. Mišković, L.-J. Hou, A.V. Ivlev and G.E. Morfill: A full account of compressional wave in 2D strongly coupled complex (dusty) plasmas: Theory, experiment and numerical simulation. EPL (Europhysics Letters) 94, 65001 (2011).

Urban, O., N. Werner, A. Simionescu, S.W. Allen and H. Böhringer: X-ray spectroscopy of the Virgo Cluster out to the virial radius. Mon. Not. R. Astron. Soc. 414, 2101-2111 (2011).

Usui, F., D. Kuroda, T.G. Müller, S. Hasagawa, M. Ishiguro, T. Ootsubo, D. Ishihara, H. Kataza, S. Takita, S. Oyabu, M. Ueno, H. Matsuhara and T. Onaka: Asteroid Catalog Using Akari: AKARI/IRC Mid-Infrared Asteroid Survey. Publ. Astron. Soc. Jpn. 63, 1117-1138 (2011).

van Daalen, M.P., J. Schaye, C.M. Booth and C. Dalla Vecchia: The effects of galaxy formation on the matter power spectrum: a challenge for precision cosmology. Mon. Not. R. Astron. Soc. 415, 3649-3665 (2011).

van der Wel, A., A.N. Straughn, H.-W. Rix, ..., S. Wuyts, et al.: Extreme Emission-line Galaxies in CANDELS: Broadband-selected, Starbursting Dwarf Galaxies at z $>$ 1. Ap. J. 742, 111 (2011).

van der Wel, A., H.-W. Rix, S. Wuyts, E.J. McGrath, A.M. Koekemoer, E.F. Bell, B.P. Holden, A.R. Robaina and D.H. McIntosh: The Majority of Compact Massive Galaxies at z $\sim$ 2 are Disk Dominated. Ap. J. 730, 38 (2011).

van de Voort, F., J. Schaye, C.M. Booth and C. Dalla Vecchia: The drop in the cosmic star formation rate below redshift 2 is caused by a change in the mode of gas accretion and by active galactic nucleus feedback. Mon. Not. R. Astron. Soc. 415, 2782-2789 (2011).

van de Voort, F., J. Schaye, C.M. Booth, M.R. Haas and C. Dalla Vecchia: The rates and modes of gas accretion on to galaxies and their gaseous haloes. Mon. Not. R. Astron. Soc. 414, 2458-2478 (2011).

van Dishoeck, E.F., L.E. Kristensen, ..., G.J. Herczeg, et al.: Water in Star-forming Regions with the Herschel Space Observatory (WISH). I. Overview of Key Program and First Results. Publ. Astron. Soc. Pac. 123, 138-170 (2011).

van Dishoeck, E.F.: Water in space. Europhys. News 42, 26-31 (2011).

van Dokkum, P.G., G. Brammer, M. Fumagalli, ..., N. Förster Schreiber, et al.: First Results from the 3D-HST Survey: The Striking Diversity of Massive Galaxies at z $>$ 1. Ap. J. Lett. 743, L15 (2011).

Vasilyak, L.M., V.E. Fortov, G.E. Morfill, A.V. Ivlev, M.Y. Pustylnik, D.N. Polyakov, H.M. Thomas and S.P. Vetchinin: Contributions to Plasma Physics 51, 529-532 (2011).

Vaughan, S., P. Uttley, K.A. Pounds, K. Nandra and T.E. Strohmayer: The rapid X-ray variability of NGC 4051. Mon. Not. R. Astron. Soc. 413, 2489-2499 (2011).

Ventimiglia, G., M. Arnaboldi and O. Gerhard: The unmixed kinematics and origins of diffuse stellar light in the core of the Hydra I cluster (Abell 1060). Astron. Astrophys. 528, A24 (2011).

Vicente, S., B. Merín, M. Hartung, H. Bouy, N. Huélamo, E. Artigau, J.-C. Augereau, E. van Dishoeck, J. Olofsson, I. Oliveira and T. Prusti: Ruling out unresolved binaries in five transitional disks. VLT/NACO deep 2.12 and 1.75 μm narrow-band imaging. Astron. Astrophys. 533, A135 (2011).

Vincent, F.H., T. Paumard, G. Perrin, L. Mugnier, F. Eisenhauer and S. Gillessen: Performance of astrometric detection of a hotspot orbiting on the innermost stable circular orbit of the Galactic Centre black hole. Mon. Not. R. Astron. Soc. 412, 2653-2664 (2011).

Visser, R., S.D. Doty and E.F. van Dishoeck: The chemical history of molecules in circumstellar disks. II. Gas-phase species. Astron. Astrophys. 534, A132 (2011).

Vladimirov, A.E., S.W. Digel, G. Jóhannesson, P.F. Michelson, I.V. Moskalenko, P.L. Nolan, E. Orlando, T.A. Porter and A.W. Strong: GALPROP WebRun: An internet-based service for calculating galactic cosmic ray propagation and associated photon emissions. Computer Physics Communications 182, 1156-1161 (2011).

Vogt, J., S. E. Haaland and G. Paschmann: Accuracy of multi-point boundary crossing time analysis. Ann. Geophys, 29, 2239-2252 (2011).

Vreeswijk, P.M., C. Ledoux, A. Smette, S.L. Ellison, A.O. Jaunsen, M.I. Andersen, A.S. Fruchter, J.P.U. Fynbo, J. Hjorth, A. Kaufer, P. Møller, P. Petitjean, S. Savaglio and R.A.M.J. Wijers: Rapid-response mode VLT/UVES spectroscopy of GRB 060418. Conclusive evidence for UV pumping from the time evolution of Fe II and Ni II excited- and metastable-level populations. Astron. Astrophys. 532, C3 (2011).

Walch, S., R. Wünsch, A. Burkert, S. Glover and A. Whitworth: The Turbulent Fragmentation of the Interstellar Medium: The Impact of Metallicity on Global Star Formation. Ap. J. 733, 47 (2011).

Wampfler, S.F., S. Bruderer, L.E. Kristensen, L. Chavarría, E.A. Bergin, A.O. Benz, E.F. van Dishoeck, G.J. Herczeg, F.F.S. van der Tak, J.R. Goicoechea, S.D. Doty and F. Herpin: First hyperfine resolved far-infrared OH spectrum from a star-forming region. Astron. Astrophys. 531, L16 (2011).

Watanabe, E., M. Takizawa, K. Nakazawa, N. Okabe, M. Kawaharada, A. Babul, A. Finoguenov, G.P. Smith and J.E. Taylor: Suzaku X-Ray Follow-Up Observation of Weak-Lensing-Detected Halos in the Field around ZwCl 0823.2+0425. Publ. Astron. Soc. Jpn. 63, 357-366 (2011).

Weinmann, S.M., E. Neistein and A. Dekel: On the puzzling plateau in the specific star formation rate at z = 2-7. Mon. Not. R. Astron. Soc. 417, 2737-2751 (2011).

Weisskopf, M.C., A.F. Tennant, D.G. Yakovlev, A. Harding, V.E. Zavlin, S.L. O'Dell, R.F. Elsner and W. Becker: Chandra Phase-resolved X-Ray Spectroscopy of the Crab Pulsar. Ap. J. 743, 139 (2011).

Weisskopf, M.C., R.W. Romani, M. Razzano, A. Belfiore, P. Saz Parkinson, P.S. Ray, M. Kerr, A. Harding, D.A. Swartz, A. Carramiñana, M. Ziegler, W. Becker, A. de Luca, M. Dormody, D.J. Thompson, G. Kanbach, R.F. Elsner, S.L. O'Dell and A.F. Tennant: The Identification of the X-Ray Counterpart to PSR J2021+4026. Ap. J. 743, 74 (2011).

Wik, D.R., C.L. Sarazin, A. Finoguenov, W.H. Baumgartner, R.F. Mushotzky, T. Okajima, J. Tueller and T.E. Clarke: The Lack of Diffuse, Non-thermal Hard X-ray Emission in the Coma Cluster: The Swift Burst Alert Telescope's Eye View. Ap. J. 727, 119 (2011).

Williamson, R., B.A. Benson, F.W. High, ..., J.J. Mohr, et al.: A Sunyaev-Zel'dovich-selected Sample of the Most Massive Galaxy Clusters in the 2500 deg^2 South Pole Telescope Survey. Ap. J. 738, 139 (2011).

Wilson-Hodge, C.A., M.L. Cherry, G.L. Case, W.H. Baumgartner, E. Beklen, P. Narayana Bhat, M.S. Briggs, A. Camero-Arranz, V. Chaplin, V. Connaughton, M.H. Finger, N. Gehrels, J. Greiner, K. Jahoda, P. Jenke, R.M. Kippen, C. Kouveliotou, H.A. Krimm, E. Kuulkers, N. Lund, C.A. Meegan, L. Natalucci, W.S. Paciesas, R. Preece, J.C. Rodi, N. Shaposhnikov, G.K. Skinner, D. Swartz, A. von Kienlin, R. Diehl and X.-L. Zhang: When a Standard Candle Flickers. Ap. J. Lett. 727, L40 (2011).

Wörner, L., V. Nosenko, A.V. Ivlev, S.K. Zhdanov, H.M. Thomas, G.E. Morfill, M. Kroll, J. Schablinski and D. Block: Effect of rotating electric field on 3D complex (dusty) plasma. Phys. Plasmas 18, 063706 (2011).

Woitke, P., B. Riaz, G. Duchêne, I. Pascucci, A.-R. Lyo, W.R.F. Dent, N. Phillips, W.-F. Thi, F. Ménard, G.J. Herczeg, E. Bergin, A. Brown, A. Mora, I. Kamp, G. Aresu, S. Brittain, I. de Gregorio-Monsalvo and G. Sandell: The unusual protoplanetary disk around the T Tauri star ET Chamaeleontis. Astron. Astrophys. 534, A44 (2011).

Wuyts, S., N.M. Förster Schreiber, A. van der Wel, B. Magnelli, Y. Guo, R. Genzel, D. Lutz, H. Aussel, G. Barro, S. Berta, A. Cava, J. Graciá-Carpio, N.P. Hathi, K.-H. Huang, D.D. Kocevski, A.M. Koekemoer, K.-S. Lee, E. Le Floc'h, E.J. McGrath, R. Nordon, P. Popesso, F. Pozzi, L. Riguccini, G. Rodighiero, A. Saintonge and L. Tacconi: Galaxy Structure and Mode of Star Formation in the SFR-Mass Plane from z $\sim$ 2.5 to z $\sim$ 0.1. Ap. J. 742, 96 (2011).

Wuyts, S., N.M. Förster Schreiber, D. Lutz, R. Nordon, S. Berta, B. Altieri, P. Andreani, H. Aussel, A. Bongiovanni, J. Cepa, A. Cimatti, E. Daddi, D. Elbaz, R. Genzel, A.M. Koekemoer, B. Magnelli, R. Maiolino, E.J. McGrath, A. Pérez García, A. Poglitsch, P. Popesso, F. Pozzi, M. Sanchez-Portal, E. Sturm, L. Tacconi and I. Valtchanov: On Star Formation Rates and Star Formation Histories of Galaxies Out to z $\sim$ 3. Ap. J. 738, 106 (2011).

Xue, Y.Q., B. Luo, W.N. Brandt, F.E. Bauer, B.D. Lehmer, P.S. Broos, D.P. Schneider, D.M. Alexander, M. Brusa, A. Comastri, A.C. Fabian, R. Gilli, G. Hasinger, A.E. Hornschemeier, A. Koekemoer, T. Liu, V. Mainieri, M. Paolillo, D.A. Rafferty, P. Rosati, O. Shemmer, J.D. Silverman, I. Smail, P. Tozzi and C. Vignali: The Chandra Deep Field-South Survey: 4 Ms Source Catalogs. Ap. J. Supp. Ser. 195, 10 (2011).

Yan, R., L.C. Ho, J.A. Newman, A.L. Coil, C.N.A. Willmer, E.S. Laird, A. Georgakakis, J. Aird, P. Barmby, K. Bundy, M.C. Cooper, M. Davis, S.M. Faber, T. Fang, R.L. Griffith, A.M. Koekemoer, D.C. Koo, K. Nandra, S.Q. Park, V.L. Sarajedini, B.J. Weiner and S.P. Willner: AEGIS: Demographics of X-ray and Optically Selected Active Galactic Nuclei. Ap. J. 728, 38 (2011).

Yaroshenko, V.V., W.J. Miloch, S. Vladimirov, H.M. Thomas and G.E. Morfill: Modeling of Cassini's charging at Saturn orbit insertion flyby. J. Geophys. Res. (Space Phys.) 116, 12218 (2011).

Yoon, C.H., P. Schwander, C. Abergel, ..., G. Hauser, ..., L. Strüder, ..., G. Weidenspointner, et al.: Unsupervised classification of single-particle X-ray diffraction snapshots by spectral clustering. Optics Express 19, 16542-16549 (2011).

Young, L.M., M. Bureau, T.A. Davis, F. Combes, R.M. McDermid, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.T. de Zeeuw, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra and A.-M. Weijmans: The ATLAS3D project - IV. The molecular gas content of early-type galaxies. Mon. Not. R. Astron. Soc. 414, 940-967 (2011).

Zane, S., F. Haberl, G.L. Israel, A. Pellizzoni, M. Burgay, R.P. Mignani, R. Turolla, A. Possenti, P. Esposito, D. Champion, R.P. Eatough, E. Barr and M. Kramer: Discovery of 59 ms pulsations from 1RXS J141256.0+792204 (Calvera). Mon. Not. R. Astron. Soc. 410, 2428-2445 (2011).

Zenteno, A., J. Song, S. Desai, R. Armstrong, J.J. Mohr, C.-C. Ngeow, W.A. Barkhouse, S.S. Allam, K. Andersson, G. Bazin, B.A. Benson, E. Bertin, M. Brodwin, E.J. Buckley-Geer, S.M. Hansen, F.W. High, H. Lin, Y.-T. Lin, J. Liu, A. Rest, R.C. Smith, B. Stalder, A.A. Stark, D.L. Tucker and Y. Yang, A Multiband Study of the Galaxy Populations of the First Four Sunyaev-Zel'dovich Effect Selected Galaxy Clusters. Ap. J. 734, 3 (2011).

Zhang, J.-C., L.M. Kistler, C.G. Mouikis, B. Klecker, J.-A. Sauvaud and M.W. Dunlop: A statistical study of EMIC wave-associated He^+ energization in the outer magnetosphere: Cluster/CODIF observations. J. Geophys. Res. (Space Phys.) 116, 11201

(2011).

Zhang, J.-C., L.M. Kistler, C.G. Mouikis, H. Matsui, B. Klecker, I. Dandouras and M.W. Dunlop: Shock-driven variation in ionospheric outflow during the 11 October 2001 moderate storm. J. Geophys. Res. (Space Phys.) 116, A00J18 (2011).

Zhang, Y.-Y., A. Finoguenov, H. Böhringer, J.-P. Kneib, G.P. Smith, R. Kneissl, N. Okabe and H. Dahle: LoCuSS: comparison of observed X-ray and lensing galaxy cluster scaling relations with simulations. Astron. Astrophys. 527, C3 (2011).

Zhang, Y.-Y., H. Andernach, C.A. Caretta, T.H. Reiprich, H. Böhringer, E. Puchwein, D. Sijacki and M. Girardi: HIFLUGCS: Galaxy cluster scaling relations between X-ray luminosity, gas mass, cluster radius, and velocity dispersion. Astron. Astrophys. 526, A105 (2011).

Zhang, Y.-Y., H. Böhringer, A. Finoguenov, Y. Ikebe, K. Matsushita, P. Schuecker, L. Guzzo and C.A. Collins: X-ray properties in massive galaxy clusters: XMM-Newton observations of the REFLEX-DXL sample. Astron. Astrophys. 527, C2 (2011).

Zhdanov, S.K., M.H. Thoma and G.E. Morfill: Spontaneous disordering of a two-dimensional (2D) plasma crystal. New J. Phys. 13, 013039 (2011).

Ziaeepour, H. and B. Gardner: Broad band simulation of Gamma Ray Bursts (GRB) prompt emission in presence of an external magnetic field. J. of Cosmology and Astroparticle Phys. 12, 1 (2011).

Zimmermann, J.L., K. Dumler, T. Shimizu, G.E. Morfill, A. Wolf, V. Boxhammer, J. Schlegel, B. Gansbacher and M. Anton: Effects of cold atmospheric plasmas on adenoviruses in solution. Journal of Physics D Applied Physics 44, 5201 (2011).

7.2 Instrumentelle Veröffentlichungen

Basso, S., G. Pareschi, O. Citterio, D. Spiga, G. Tagliaferri, L. Raimondi, G. Sironi, V. Cotroneo, B. Salmaso, B. Negri, P. Attinà, G. Borghi, A. Orlandi, D. Vernani, G. Valsecchi, R. Binda, F. Marioni, S. Moretti, M. Castelnuovo, W. Burkert, M.J. Freyberg and V. Burwitz: The optics system of the New Hard X-ray Mission: status report. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy V", San Diego, USA, 2011. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8147E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 814709-814709-12 (2011).

Bavdaz, M., N. Rando, E. Wille, K. Wallace, B. Shortt, M. Collon, C. van Baren, G. Pareschi, F. Christensen, M. Krumrey and M. Freyberg: ESA-led ATHENA/IXO optics development status. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy V", San Diego, USA, 2011. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8147E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81470C-81470C-8 (2011).

Boesz, A., F. Grupp, A. Mottaghibonab, T. Zeh, N. Geis and R. Bender: Analytic results for high-precision and cryogenic lens holders. In Proc. of "Optomechanics 2011: Innovations and Solutions", San Diego, USA, 2011. (Eds.) A.E. Hatheway. SPIE Conference Proceedings 8125E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81250G-81250G-12 (2011).

Boesz, A., F. Grupp, T. Leberle, A. Mottaghibonab, N. Geis and R. Bender: Verification program for a high-precision large cryogenic lens holder. In Proc. of "Optical Manufacturing and Testing IX", San Diego, USA, 2011. (Eds.) J.H. Burge, O.W. Fähnle, R. Williamson. SPIE Conference Proceedings 8126E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81261C-81261C-12 (2011).

Burwitz, V., P. Friedrich, H. Bräuninger, B. Budau, W. Burkert, J. Eder, M. Freyberg, G. Hartner, E. Pfeffermann, P. Predehl, L. Arcangeli, G. Borghi, A. Borroni, O. Citterio,

I. Ferrario, G. Grisoni, F. Marioni, A. Ritucci, M. Rossi, G. Valsecchi and D. Vernani: Development and testing of the eROSITA mirror modules. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy V", San Diego, USA, 2011. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8147E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 814708-814708-6 (2011).

Collon, M.J., R. Günther, M. Ackermann, R. Partapsing, G. Vacanti, M.W. Beijersbergen, M. Bavdaz, K. Wallace, E. Wille, M. Olde Riekerink, J. Haneveld, A. Koelewijn, C. van Baren, P. Müller, M. Krumrey, M. Freyberg, A.C. Jakobsen and F. Christensen: Design, fabrication, and characterization of silicon pore optics for ATHENA/IXO. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy V", San Diego, USA, 2011. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8147E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81470D-81470D-10 (2011).

Facchinetti, S., L. Bombelli, C. Fiorini, M. Porro, G. de Vita and F. Erdinger: Characterization of the Flip Capacitor Filter for the XFEL-DSSC Project. IEEE Transactions on Nuclear Science 58, 2032-2038 (2011).

Fuchs, U., F. Grupp, S. Kiontke and R. Bender: Measured aspheric surface irregularities as input to the Euclid-NISP tolerancing. In Proc. of "UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts V", San Diego, USA, 2011. (Eds.) H.A. MacEwen, J.B. Breckinridge. SPIE Conference Proceedings 8146E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 814610-814610-6 (2011).

Grupp, F., A. Brucalassi, F. Lang, S.M. Hu, R. Holzwarth, T. Udem, U. Hopp and R. Bender: Pressure and temperature stabilization of an existing chelle spectrograph II. In Proc. of "Techniques and Instrumentation for Detection of Exoplanets V", San Diego, USA, 2011. (Eds.) S. Shaklan. SPIE Conference Proceedings 8151E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 815119-815119-9 (2011).

Grupp, F., E. Prieto, P. Spano, F.M. Zerbi, N. Geis, A. Bode, V. Junk and R. Bender: The Euclid-NISP instrument optics and tolerancing approach. In Proc. of "UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts V", San Diego, USA, 2011. (Eds.) H.A. MacEwen, J.B. Breckinridge. SPIE Conference Proceedings 8146E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81460R-81460R-12 (2011).

Guenster, S., D. Ristau and R. Davies: Band-pass and OH-suppression filters for the E-ELT: design and prototyping. In Proc. of "Advances in Optical Thin Films IV", Marseille, France, 2011. (Eds.) M. Lequime, H.A. Macleod, D. Ristau. SPIE Conf. Proc. 8168, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 8168iY (2011).

Hart, M., S. Rabien, L. Busoni, L. Barl, U. Beckmann, M. Bonaglia, Y. Boose, J.L. Borelli, T. Bluemchen, L. Carbonaro, C. Connot, M. Deysenroth, R. Davies, O. Durney, M. Elberich, T. Ertl, S. Esposito, W. Gässler, V. Gasho, H. Gemperlein, P. Hubbard, S. Kanneganti, M. Kulas, K. Newman, J. Noenickx, G. Orban de Xivry, D. Peter, A. Quirrenbach, M. Rademacher, C. Schwab, J. Storm, V. Vaitheeswaran, G. Weigelt and J. Ziegleder: Status report on the Large Binocular Telescope's ARGOS ground-layer AO system. In Proc. of "Astronomical Adaptive Optics Systems and Applications IV", San Diego, USA, 2009. (Eds.) R.K. Tyson, M. Hart. SPIE Conference Proceedings 8149E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81490J-81490J-11 (2011).

Hartmann, R., S. Epp, H. Gorke, A. Hartmann, G. Hauser, S. Herrmann, P. Holl, N. Kimmel, N. Meidinger, C. Reich, D. Rolles, H. Soltau, L. Strüder, J. Ullrich and G. Weidenspointner: Large format imaging detectors for x-ray free-electron-lasers. In

Proc. of "Advances in X-ray Free-Electron Lasers: Radiation Schemes, X-ray Optics, and Instrumentation", Prague, Czech, 2011. (Eds.) T. Tschentscher, D. Cocco. SPIE Conference Proceedings 8078E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 80780W-80780W-9 (2011).

Kimmel, N., R. Andritschke, L. Englert, S. Epp, A. Hartmann, R. Hartmann, G. Hauser, P. Holl, I. Ordavo, R. Richter, L. Strüder and J. Ullrich: Calibration methods and performance evaluation for pnCCDs in experiments with FEL radiation. In Proc. of "Advances in X-ray Free-Electron Lasers: Radiation Schemes, X-ray Optics, and Instrumentation", Prague, Czech, 2011. (Eds.) T. Tschentscher, D. Cocco. SPIE Conference Proceedings 8078E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 80780V-80780V-11 (2011).

Liebel, A., H. Soltau, R. Eckhardt, O. Jaritschin, A. Niculae and F. Schopper: Solid State Backscattered Electron Detector Optimized for Minimum Detectable Energy and Maximum Scan Speed. Microscopy and Microanalysis 17, 904-905 (2011).

Martin, A.V., J. Andreasson, A. Aquila, ..., P. Holl, ..., N. Kimmel, ..., ..., L. Strüder, ..., G. Weidenspointner, et al.: Single particle imaging with soft x-rays at the Linac Coherent Light Source. In Proc. of "Advances in X-ray Free-Electron Lasers: Radiation Schemes, X-ray Optics, and Instrumentation", Prague, Czech, 2011. (Eds.) T. Tschentscher, D. Cocco. SPIE Conference Proceedings 8078E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 807809-807809-9 (2011).

Meidinger, N., R. Andritschke, J. Elbs, S. Granato, O. Hälker, G. Hartner, S. Herrmann, D. Miessner, D. Pietschner, P. Predehl, J. Reiffers, T. Rommerskirchen, G. Schmaler, L. Strüder and L. Tiedemann: Status of the CCD camera for the eROSITA space telescope. In Proc. of "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVII", San Diego, USA, 2011. (Eds.) O.H. Siegmund. SPIE Conference Proceedings 8145E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 814502-814502-12 (2011).

Meuris, A., F. Aschauer, G. de Vita, B. Guenther, S. Herrmann, T. Lauf, P. Lechner, G. Lutz, P. Majewski, D. Miessner, M. Porro, J. Reiffers, A. Stefanescu, F. Schopper, H. Soltau, L. Strüder and J. Treis: Development and Characterization of New 256x256 Pixel DEPFET Detectors for X-Ray Astronomy. IEEE Transactions on Nuclear Science 58, 1206-1211 (2011).

Niculae, A., L. Andricek, M. Bornschlegl, R. Eckhardt, J. Herrmann, O. Jartischin, S. Jeschke, P. Lechner, L. Mungenast, B. Schweinfest, H. Soltau and L. Strüder: New Results with High Quantum Efficiency Silicon Drift Detectors. Microscopy and Microanalysis 17, 1204-1205 (2011).

Niculae, A., M. Bornschlegl, R. Eckhardt, J. Herrmann, O. Jaritschin, P. Lechner, A. Liebel, H. Soltau, G. Schaller, F. Schopper and L. Strüder: New Design and Measurements with 60 mm^2 Rococo2 SDD Detectors. Microscopy and Microanalysis 17, 1206-1207 (2011).

Predehl, P., R. Andritschke, W. Becker, H. Böhringer, W. Bornemann, H. Bräuninger, H. Brunner, M. Brusa, W. Burkert, V. Burwitz, E. Churazov, K. Dennerl, J. Eder, J. Elbs, M. Freyberg, P. Friedrich, M. Fürmetz, R. Gaida, F. Guglielmetti, O. Hälker, G. Hartner, F. Haberl, S. Herrmann, H. Huber, E. Kendziorra, A. von Kienlin, W. Kink, I. Kreykenbohm, G. Lamer, I. Lapchov, N. Meidinger, A. Merloni, B. Mican, J. Mohr, M. Mühlegger, S. Müller, K. Nandra, M. Pavlinsky, E. Pfeffermann, T. Reiprich, J. Robrade, C. Rohé, A. Santangelo, M. Sasaki, G. Schächner, C. Schmid, J. Schmitt, R. Schreib, F. Schrey, A. Schwope, M. Steinmetz, L. Strüder, R. Sunyaev, C. Tenzer, L. Tiedemann, M. Vongehr and J. Wilms: eROSITA. In Proc. of "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVII", San Diego, USA, 2011. (Eds.) O.H. Siegmund. SPIE Conference Proceedings 8145E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81450D-81450D-10 (2011).

Soltau, H., R. Hartmann, A. Hartmann, P. Holl, S. Ihle, C. Thamm, A. Liebel, I. Ordavo, G. Schaller, F. Schopper and L. Strüder: Full Field X-Ray Imaging - Microanalysis between Table Top and Free Electron Laser Experiments. Microscopy and Microanalysis 17, 910-911 (2011).

Treis, J., K. Heinzinger, K. Hermenau, S. Herrmann, T. Lauf, P. Lechner, G. Lutz, P. Majewski, M. Porro, R. Richter, G. Schaller, F. Schopper, H. Soltau, L. Strüder and G. de Vita: Progress on the Development of DEPFET Based SDD and MPD Detectors. Microscopy and Microanalysis 17, 1202-1203 (2011).

Vacanti, G., M. Ackermann, C. van Baren, M.W. Beijersbergen, M.J. Collon, M. Freyberg, R. Günther, J. Haneveld, A. Koelewijn, E. Maddox, M. Olde Riekerink and R. Partapsing: Silicon pore optics for astrophysical missions. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy V", San Diego, USA, 2011. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8147E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 81470F-81470F-13 (2011).

Vernani, D., G. Borghi, G. Calegari, M. Castelnuovo, O. Citterio, I. Ferrario, G. Grisoni, S. Moretti, G. Valsecchi, H. Brauninger, V. Burwitz, J. Eder, P. Friedrich and P. Predehl: Performance of a mirror shell replicated from a new flight quality mandrel for eROSITA mission. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy V", San Diego, USA, 2011. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8147E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 814707-814707-9 (2011).

Weidenspointner, G., S. Epp, A. Hartmann, R. Hartmann, G. Hauser, P. Holl, N. Kimmel, D. Rolles, L. Strüder and J. Ullrich: Practical experience from operating the imaging pnCCD instrument of the CAMP chamber at LCLS. In Proc. of "Advances in X-ray Free-Electron Lasers: Radiation Schemes, X-ray Optics, and Instrumentation", Prague, Czech, 2011. (Eds.) T. Tschentscher, D. Cocco. SPIE Conference Proceedings 8078E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 80780U-80780U-9 (2011).

7.3 Konferenzbeiträge

Referierte Proceedings

Aina, V., L. Bertinetti, G. Cerrato, M. Cerruti, G. Lusvardi, G. Malavasi, C. Morterra, L. Tacconi and L. Menabue: On the dissolution/reaction of small-grain Bioglass 45S5 and F-modified bioactive glasses in artificial saliva (AS). Appl. Surface Sci. 257, 4185-4195 (2011).

Benz, A.O., L.E. Kristensen, R. Visser, E.F. van Dishoeck, U.A. Yildiz, G.J. Herczeg, S. Doty, J.K. Jørgensen, T.A. van Kempen, C. Brinch, S. Wampfler and S. Bruderer: WISHes coming true: water in low-mass star-forming regions with Herschel. In Proc. of "5th Zermatt ISM-Symposium Conditions and Impact of Star Formation: New Results with Herschel and Beyond", Zermatt, Switzerland, 2010. (Eds.) M. Röllig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publications Series, European Astronomical Society, 52, 177 (2011).

Benz, A.O., V. Ossenkopf, M. Röllig, C. Kramer, Y. Okada, A. Fuente, Akyilmaz M. Yabaci, A.O. Benz, O. Berné, F. Boulanger, S. Bruderer, C. Dedes, K. France, M. Gerin, J.R. Goicoechea, A. Gusdorf, R. Güsten, A. Harris, C. Joblin, T. Klein, W. Latter, Le F. Petit, S. Lord, P.G. Martin, P. Pilleri, J. Martin-Pintado, B. Mookerjea, D.A. Neufeld, T. Phillips, R. Rizzo, R. Simon, J. Stutzki, F.F.S. van der Tak, D. Teyssier and H. Yorke: The WADI key project: New insights to photon-dominated regions from Herschel observations. In Proc. of "5th Zermatt ISM-Symposium Conditions and Impact of Star Formation: New Results with Herschel and Beyond", Zermatt, Switzerland, 2010. (Eds.) M. Röllig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publications

Series, European Astronomical Society, 52, 181 (2011).

Benz, A.O., S. Bruderer, E.F. van Dishoeck, P. Stäuber, S.F. Wampfler and C. Dedes: Tracing FUV Radiation in the Embedded Phase of Star Formation. In Proc. of "5th Zermatt ISM-Symposium Conditions and Impact of Star Formation: New Results with Herschel and Beyond", Zermatt, Switzerland, 2010. (Eds.) M. Röllig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publications Series, European Astronomical Society, 52, 239 (2011).

Bernhardt, M.G., T. Prinz, W. Becker and U. Walter: Timing X-ray Pulsars with Application to Spacecraft Navigation. In Proc. of "High Time Resolution Astrophysics IV - The Era of Extremely Large Telescopes", Agios Nikolaos, Crete, Greece, 2010. Proceedings of Science, published online (2011).

Brusa, M., R. Gilli, F. Civano, A. Comastri, R. Fiore and C. Vignali: Identification of (high-redshift) AGN with WFXT: lessons from COSMOS and CDFS. Mem. Soc. Astron. Ital. Suppl. 17, 106 (2011).

Burggraf, B., K. Weis, D.-J. Bomans and M. Henze: Var C: (Semi-)Periodic Long-Term Variability. In Proc. of "39th Liège Astrophysical Colloquium", Liège, Belgium, 2010. (Eds.) G. Rauw, M. De Becker, Y. Nazé, J.-M. Vreux, P. Williams. Bulletin de la Société Royale des Sciences de Liège Vol. 80, Société Royale des Sciences de Liège, Liège, Belgium, 356-360 (2011).

Cappelluti, N., P. Predehl, H. Böhringer, H. Brunner, M. Brusa, V. Burwitz, E. Churazov, K. Dennerl, A. Finoguenov, M. Freyberg, P. Friedrich, G. Hasinger, E. Kenziorra, I. Kreykenbohm, G. Lamer, N. Meidinger, M. Mühlegger, M. Pavlinsky, J. Robrade, A. Santangelo, J. Schmitt, A. Schwope, M. Steinmitz, L. Strüder, R. Sunyaev and C. Tenzer: eROSITA on SRG. A X-ray all-sky survey mission. Mem. Soc. Astron. Ital. Suppl. 17, 159 (2011).

Casasola, V., S. García-Burillo, F. Combes, L.K. Hunt, M. Krips, E. Schinnerer, A.J. Baker, F. Boone, A. Eckart, S. Léon, R. Neri and L.J. Tacconi: New views on bar pattern speeds from the NUGA survey. Mem. Soc. Astron. Ital. Suppl. 18, 43 (2011).

Comastri, A., P. Ranalli, R. Gilli, C. Vignali, M. Brusa and F. Civano: The high-redshift Universe with the International X-ray Observatory. Mem. Soc. Astron. Ital. Suppl. 17, 165 (2011).

Dobbs, C.L.: Pattern speeds in interacting galaxies. Mem. Soc. Astron. Ital. Suppl. 18, 109 (2011).

Erwin, P.: Double-barred galaxies. Mem. Soc. Astron. Ital. Suppl. 18, 145 (2011).

Fink, M.A., M.H. Thoma and G.E. Morfill: PK-4 Science Activities in Micro-gravity. In Proc. of "ELGRA Symposium: In the Footsteps of Columbus", Bonn, Germany, 2009. Microgravity, Science AND Technology, Vol. 23, Num. 2, 169-171 (2011).

Frommert, M., I. Sidorenko, J. Bauer, D. Müller, E. Rummeny, F. Eckstein, R. Monetti and C. Räth: Amplitude remapping as a step towards standardizing the analysis of MR-images. In Proc. of "Medical Imaging 2011: Image processing", Lake Buena Vista, USA, 2011. (Eds.) B.M. Dawant, D.R. Haynor. SPIE Conference Proceedings 7962E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 79621J-79621J-13 (2011).

Gerhard, O.: Pattern speeds in the Milky Way. Mem. Soc. Astron. Ital. Suppl. 18, 185 (2011).

Gilli, R., P. Tozzi, P. Rosati, M. Paolillo, S. Borgani, M. Brusa, A. Comastri, E. Lusso, F. Marulli and C. Vignali: Demography of obscured and unobscured AGN: prospects for a Wide Field X-ray Telescope. Mem. Soc. Astron. Ital. Suppl. 17, 85 (2011).

Hurley, K., A. Rau, A. von Kienlin and X.-L. Zhang: 8 Years of Bursts with the SPI-ACS. In Proc. of "8th INTEGRAL Workshop: The Restless Gamma-ray Universe", Dublin,

Ireland, 2010. Proceedings of Science, published online (2010).

Monetti, R.A., J. Bauer, I. Sidorenko, D. Müller, E. Rummeny, M. Matsuura, F. Eckstein, E.-M. Lochmueller, P. Zysset and C. Räth: Structure based classification of μ-CT images of human trabecular bone using local Minkowski Functionals. In Proc. of "Medical Imaging 2011: Biomedical Applications in Molecular, Structural, and Functional Imaging", Lake Buena Vista, USA, 2011. (Eds.) J.B. Weaver, R.C. Molthen. SPIE Conference Proceedings 7965E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, 79650K-79650K-9 (2011).

Wilson-Hodge, C., M.L. Cherry, G.L. Case, W. Baumgartner, E. Beklen, P.N. Bhat, M.S. Briggs, A. Camero-Arranz, V. Chaplin, V. Connaughton, M.H. Finger, N. Gehrels, J. Greiner, K. Jahoda, P. Jenke, R.M. Kippen, C. Kouveliotou, H.A. Krimm, E. Kuulkers, N. Lund, C.A. Meegan, L. Natalucci, W.S. Paciesas, R. Preece, J.C. Rodi, N. Shaposhnikov, G.K. Skinner, D. Swartz, A. von Kienlin, R. Diehl and X. L. Zhang: When a Standard Candle Flickers. In Proc. of "8th INTEGRAL Workshop: The Restless Gamma-ray Universe", Dublin, Ireland, 2010. Proceedings of Science, published online (2010).

Zhang, X.L., A. Rau, A. von Kienlin and K. Hurley: SPI-ACS timing: cross-check of onboard clocks. In Proc. of "8th INTEGRAL Workshop: The Restless Gamma-ray Universe", Dublin, Ireland, 2010. Proceedings of Science, published online (2010).

Nicht-referierte Proceedings

Antonova, T., S.A. Khrapak, C.-R. Du, B. Steffes, H.M. Thomas and G.E. Morfill: The charging of dust particles in the range of very high discharge frequencies. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 433-434 (2011).

Apfelbaum, E., B. Klumov, A. Khrapak, V. Fortov and G. Morfill: On Possibility of Determination of Interparticle Interaction Potential in Complex Plasma on the Basis of Pair Correlation Function. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 313-314 (2011).

Baes, M., M. Clemens, E.M. Xilouris, J. Fritz, W.D. Cotton, J.I. Davies, G.J. Bendo, S. Bianchi, L. Cortese, I. De Looze, M. Pohlen, J. Verstappen, H. Böhringer, D.J. Bomans, A. Boselli, E. Corbelli, A. Dariush, S. di Serego Alighieri, D. Fadda, D.A. Garcia-Appadoo, G. Gavazzi, C. Giovanardi, M. Grossi, T.M. Hughes, L.K. Hunt, A.P. Jones, S. Madden, D. Pierini, S. Sabatini, M.W.L. Smith, C. Vlahakis and S. Zibetti: The far-infrared view of M87 as seen by the Herschel Space Observatory. In Proc. of "275th IAU Symposium", Buenos Aires, Argentina, 2010. (Eds.) G.E. Romero, R. Sunyaev, T. Belloni. Proc. IAU 275, Cambridge University Press, Cambridge, UK, 145-149 (2011).

Bandyopadhyay, P., U. Konopka, K. Jiang and G. Morfill: Magnetic Field Induced Shear Flow in a Strongly Coupled Complex Plasma. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 389-390 (2011).

Barcons, X., D. Barret, J. Booknbinder, J. Bregman, T. Dotani, K. Flanagan, R. Fraga-Encinas, J. Grady, H. Kunieda, D.H. Lumb, K. Mitsuda, K. Nandra, T. Ohashi, L. Piro, N. Rando, L. Strüder, T. Takahashi, T. Tsuru and N.E. White: International

X-ray Observatory (IXO) Assessment Study Report for the ESA Cosmic Vision 2015-2025. eprint arXiv: 1102.2845, (2011).

Bartko, H., F. Martins, S. Trippe, T.K. Fritz, R. Genzel, T. Ott, F. Eisenhauer, S. Gillessen, T. Paumard, T. Alexander, K. Dodds-Eden, O. Gerhard, Y. Levin, L. Mascetti, S. Nayakshin, H.B. Perets, G. Perrin, O. Pfuhl, M.J. Reid, D. Rouan, M. Zilka and A. Sternberg: Massive Young Stars in the Galactic Center. In Proc. of "The Galactic Center: A Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. ASP Conf. Ser. 439, Astronomical Society of the Pacific, San Francisco, CA USA, 100 (2011).

Beisker, W., M. Assafin, F. Braga-Ribas, T. Widemann, B. Sicardy, K.-L. Bath, H.-J. Bode, A. Tegtmeyer, C. Schnabel, R. Casas, J. Lecacheux, F. Colas, S. Kowollik, E. Bredner, C.P. Heidmann, B. Gaehrken, M. Dähne, H. Denzau, M. Mommert, E. Guenther, B. Stecklum, M. Rengel, M. Mugrauer, E. Vilenius, D. Herald, O. Farago, A. Eberle, H. Rutten, R. Behrend and S. Mottola: Observations of Stellar Occultations by Dwarf Planets and TNOs - International Campaigns. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1244 (2011).

Bernhardt, M.G., W. Becker, T. Prinz, F.M. Breithuth and U. Walter: Autonomous Spacecraft Navigation Based on Pulsar Timing Information. In Proc. of "2nd International Conference on Space Technology", Athens, Greece, 2011. (Eds.) M. Petrou, M. Gargalakos, N. Uzunoglu. IEEE Conference Proceedings, published online, 1-4 (2011).

Berta, S., B. Magnelli, R. Nordon, D. Lutz and Pep Team: Herschel/PEP Dissects the Cosmic Infrared Background. In Proc. of "Galaxy Evolution: Infrared to Millimeter Wavelength Perspective", Guilin, China, 2010. (Eds.) W. Wang, Z. Yang, J. Lu, Z. Chen, Z. Luo. ASP Conf. Ser. 446, Astronomical Society of the Pacific, San Francisco, CA USA, 309 (2011).

Bhat, P.N., E. Bissaldi, M.S. Briggs, M.J. Burgess, V. Chaplin, V. Connaughton, R. Diehi, G.J. Fishman, G. Fitzpatrick, S. Foley, M. Gibby, M. Giles, A. Goldstein, J. Greiner, D. Gruber, S. Guiriec, R.M. Kippen, C. Kouveliotou, S. McBreen, C.A. Meegan, W.S. Paciesas, R.D. Preece, A. Rau, D. Tierney, A. von Kienlin, A. van der Horst and C.A. Wilson-Hodge: GBM Long and Short GRB Lightcurve Decomposition Analysis. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP. Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 9-12 (2011).

Bureau, M., T.A. Davis, K. Alatalo, A.F. Crocker, L. Blitz, L.M. Young, F. Combes, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra and A. Weijmans: Molecular Gas and Star Formation in Local Early-type Galaxies. In Proc. of "277th IAU Symposium", Ouagadougou, Burkina Faso, 2010. (Eds.) C. Carignan, K.C. Freeman, F. Combes. Proc. IAU 277, Cambridge University Press, Cambridge, UK, 55-58 (2011).

Böhringer, H.: Testing Cosmological Models with the Properties of the Galaxy Cluster Population. In Proc. of "25th Texas Symposium on Relativistic Astrophysics (Texas 2010)", Heidelberg, Germany, 2010. (Eds.) F.A. Aharonian, W. Hofmann, F. Rieger. AIP. Conf. Proc. 1381, American Institute of Physics, Melville, NY USA, 137-149 (2011).

Cargnelli, M., M. Bazzi, G. Beer, ..., L. Strüder, et al.: Precision spectroscopy of light kaonic atom X-rays in the SIDDHARTA experiment. In Proc. of "12th International Conference", on Meson-Nucleon Physics and the Structure of the Nucleon. (Eds.) D. Armstrong, V. Burkert, J.-P. Chen, W. Detmold, J. Dudek, W. Melnitchouk, D. Richards. AIP. Conf. Proc. 1374, American Institute of Physics, Melville, NY USA, 212-215 (2011).

Cavalié, T., H. Feuchtgruber, E. Lellouch, P. Hartogh, R. Moreno, C. Jarchow, F. Billebaud, G. Orton and H. Sagawa: The horizontal distribution of water in the stratospheres of Jupiter and Saturn with Herschel/PACS. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 878 (2011).

Chaudhuri, M., S.A. Khrapak and G.E. Morfill: Experimental determination of particle charge in highly collisional plasma. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 263-264 (2011).

Chaudhuri, M., U. Konopka, E. Thomas, H.M. Thomas, C. Knapek, A.V. Ivlev, G.E. Morfill, A.M. Lipaev, V.I. Molotkov, O.F. Petrov and V.E. Fortov: Experimental analysis of surface wave in complex plasmas under microgravity condition. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 265-266 (2011).

Clarke, T.E., T. Enßlin, A. Finoguenov, H. Intema, C. Pfrommer, R. van Weeren, H. Röttgering and R. Oonk: The curious case of Abell 2256. Mem. Soc. Astron. Ital. 82, 547 (2011).

Couëdel, L., A.V. Ivlev, S. Zhdanov, V. Nosenko, H.M. Thomas and G.E. Morfill: Mode coupling due to ion wakes in 2D complex plasma crystals. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 38-43 (2011).

de Jong, J.A., R. Huygen, J. Bakker, E. Wieprecht, R. Vavrek, M. Wetzstein, J. Schreiber, E. Sturm and S. Ott: Recording the History of Herschel Data Processing in the Data Products. In Proc. of "Astronomical Data Analysis Software and Systems (ADASS XX)", Boston, MA, USA, 2010. (Eds.) I.N. Evans. ASP Conf. Ser. 442, Astronomical Society of the Pacific, San Francisco, CA USA, 371 (2011).

Dobbs, C.: Gas dynamics in whole galaxies: SPH. In Proc. of "270th IAU Symposium", Barcelona, Spain, 2010. (Eds.) J. Alves, B. Elmegren, V. Trimble. Proc. IAU 270, Cambridge University Press, Cambridge, UK, 459-466 (2011).

Dobbs, C.L.: Spiral Structure and Star Formation. In Proc. of "5th Zermatt Symposium", Zermatt, Switzerland, 2010. (Eds.) M. Roellig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publ. Ser. 52, European Astronomical Society, 87-93 (2011).

Dodds-Eden, K., D. Porquet, G. Trap, E. Quataert, S. Gillessen, N. Grosso, R. Genzel, A. Goldwurm, F. Yusef-Zadeh, S. Trippe, H. Bartko, F. Eisenhauer, T. Ott, T. Fritz and O. Pfuhl.: Flares from Sgr A* and their Emission Mechanism. In Proc. of "The Galactic Center: a Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. Astronomical Society of the Pacific Conference Series Vol. 439, Astronomical Society of the Pacific, San Francisco, 309-312 (2011).

Dresing, N., R. Gómez-Herrero, Y.Y. Kartavykh, W. Dröge, A. Klassen, B. Heber and B. Klecker: Multi-spacecraft observations during a series of three solar energetic particle events in May, 2009. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 115-118 (2011).

Dröge, W., R. Gómez-Herrero, Y.Y. Kartavykh, A. Klassen, N. Dresing, B. Klecker, B. Heber, L. Sun and R. Müller-Mellin: Multi-spacecraft observations of solar energetic electron events during the rising phase of solar cycle 24. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 86-89 (2011).

Du, C.-R., K. Jiang, K.R. Sütterlin, A.V. Ivlev and G.E. Morfill: Demixing-stimulated lane formation in binary complex plasma. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 311-312 (2011).

Duc, P.-A., J.-C. Cuillandre, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, M. Cappellari, P. Côté, R.L. Davies, T.A. Davis, P.T. de Zeeuw, E. Emsellem, L. Ferrarese, E. Ferriere, S. Gwyn, S. Khochfar, D. Krajnovic, H. Kuntschner, P.-Y. Lablanche, L. MacArthur, R.M. McDermid, L. Michel-Dansac, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A. Weijmans and L.M. Young: Investigating the Merger Origin of Early-type Galaxies using Ultra-deep Optical Images. In Proc. of "277th IAU Symposium", Ouagadougou, Burkina Faso, 2010. (Eds.) C. Carignan, K.C. Freeman, F. Combes. Proc. IAU 277, Cambridge University Press, Cambridge, UK, 238-241 (2011).

Facchinetti, S., L. Bombelli, A. Castoldi, C. Fiorini, C. Guazzoni, D. Mezza, M. Porro, G. De Vita and F. Erdinger: Fast, Low-Noise, Low-Power Electronics for the Analog Readout of Non-Linear DEPFET Pixels. In Proc. of "IEEE Nuclear Science Symposium (NSS/MIC)", Valencia, Spain, 2011. (Ed.) Z. Bell, J. Karp. NSS/MIC Conference records, published electronically (2011).

Foley, S., P.N. Bhat, D. Gruber, S. McBreen, D. Tierney and J. Greiner: Energy-dependent Spectral Lags of short GRBs detected by Fermi-GBM. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 183-186 (2011).

Fornasier, S., T. Lim, T. Müller, P. Panuzzo, P. Santos-Sanz, E. Vilenius, H. Boenhardt, J. Stansberry, A. Delsanti, F. Henry, C. Kiss, A. Pal, R. Duffard, A. Barucci and E. Dotto: Sub-millimeter observations of Centaurs and TNOs from the Herschel space telescope. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 712 (2011).

Gillessen, S., F. Eisenhauer, H. Bartko, K. Dodds-Eden, T.K. Fritz, O. Pfuhl, T. Ott and R. Genzel: The Power of Monitoring Stellar Orbits. In Proc. of "The Galactic Center: A Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. ASP Conf. Ser. 439, Astronomical Society of the Pacific, San Francisco, CA USA, 157 (2011).

Goicoechea, J.R., C. Joblin, A. Contursi, O. Berne, J. Cernicharo, M. Gerin, J. Le Burlot, E.A. Bergin and T.A. Bell: Herschel/PACS detection of far-IR OH emission towards the Orion Bar PDR. In Proc. of "280th IAU Symposium", Toledo, Spain, 2011. (Eds.) J. Cernicharo, R. Bachiller. Proc. IAU 280, Cambridge University Press, Cambridge, UK, 70, (2011).

Gómez-Herrero, R., Y.Y. Kartavykh, W. Dröge, A. Klassen, N. Dresing, B. Klecker, B. Heber, O. Malandraki, R. Müller-Mellin, and the SEPT Team: The August 18, 2010 solar energetic particle event - Multipoint observations and propagation Modeling. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 202-205 (2011).

Granato, S., R. Andritschke, J. Elbs, N. Meidinger, L. Strüder, G. Weidenspointner, M. Krumrey and F. Scholze: The spectral redistribution function of eROSITA PNCCDs. In Proc. of "Proceedings of the IEEE Nuclear Science Symposium (NSS/MIC)", Valencia, Spain, 2011. (Eds.) Z. Bell, J. Karp. NSS/MIC Conference records, published electronically, 122-128 (2011).

Greiner, J., T. Krühler, S. Klose, P. Afonso, C. Clemens, R. Filgas, D.H. Hartmann, A.K. Yoldaş, M. Nardini, F. Olivares E., A. Rau, A. Rossi, P. Schady and A. Updike: The nature of dark gamma-ray bursts. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP. Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 121-124 (2011).

Griffin, M.J., F.P. Helmich, G.L. Pilbratt and A. Poglitsch: Investigating Galaxy Evolution with FIR Observatories: Herschel and Beyond. In Proc. of "Galaxy Evolution: Infrared to Millimeter Wavelength Perspective", Guilin, China, 2010. (Eds.) W. Wang, Z. Yang, J. Lu, Z. Chen, Z. Luo. ASP Conf. Ser. 446, Astronomical Society of the Pacific, San Francisco, CA USA, 23 (2011).

Gritschneder, M., A. Burkert, T. Naab and S. Walch: Pillars, Jets and Dynamical Features. In Proc. of "270th IAU Symposium", Barcelona, Spain, 2010. (Eds.) J. Alves, B. Elmegren, V. Trimble. Proc. IAU 270, Cambridge University Press, Cambridge, UK, 319-322 (2011).

Gruber, D., F. Olivares E., A. Rau, A. von Kienlin and J. Greiner: Rest-frame statistics of 32 GBM-GRBs. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP. Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 25-28 (2011).

Gruber, D., T. Krühler, S. Foley, M. Nardini and D. Burlon: Fermi/GBM observations of the ultra-long GRB 091024. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 29-32 (2011).

Grupe, D., S. Komossa, K. Leighly and L. Gallo: WPVS 007 and Mkn 335: the link between NLS1s and BAL QSOs. In Proc. of "Narrow-Line Seyfert 1 Galaxies and their place in the Universe", Milano, Italy, 2011. (Eds.) L. Foschini, M. Colpi, L. Gallo, D. Grupe, S. Komossa, K. Leighly, S. Mathur. Proceedings of Science, published online (2011).

Guglielmetti, F.G., H.B. Böhringer, R.F. Fischer, P.R. Rosati and P.T. Tozzi: Applying the Background-Source Separation Algorithm to Chandra Deep Field South Data. In Proc. of "Statistical Challenges in Modern Astronomy V", Penn State University, State College, PA (USA), 2011. (Eds.) E.F. Feigelson, G.J. Babu. Statistical Challenges in Modern Astronomy V, Springer, New York, 493-495 (2011).

Guo, Z., E. Möbius, B. Klecker, G. Mason and M. Popecki: Observation of He+ increase in solar energetic particle events with a high source temperature and implication for acceleration site. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, 48-51 (2011).

Haerendel, G.: Magnetic fractures or reconnection of type II. In Proc. of "274th IAU Symposium: Advances in Plasma Astrophysics", Catania, Italy, 2010. (Eds.) A. Bonanno, A. Kosovichev. Proc. IAU 274, Cambridge University Press, Cambridge, UK, 56-61 (2011).

Hart, M., S. Rabien, L. Busoni, L. Barl, U. Bechmann, M. Bonaglia, Y. Boose, J. Borelli, T. Bluemchen, L. Carbonaro, C. Connot, M. Deysenroth, R. Davies, O. Durney, M. Elberich, T. Ertl, S. Esposito, W. Gaessler, V. Gasho, H. Gemperlein, P. Hubbard, S. Kanneganti, M. Kulas, K. Newman, J. Noenickx, G. Orban de Xivry, A. Qirrenback, M. Rademacher, C. Schwab, J. Storm, V. Vaitheeswaran, G. Weigelt and J. Ziegleder: The Large Binocular Telescope's ARGOS ground-layer AO system. In Proc. of "Advanced Maui Optical and Space Surveillance Technologies Conference", Maui, USA, 2010. (Eds.) S. Ryan. Proc. Advanced Maui Optical and Space Surveillance Technologies Conference, published online (2011).

Herpin, F., L. Chavarria, F. van der Tak, F. Wyrowski, S. Bontemps and E. van Dishoeck: Water in massive star-forming regions with the Herschel Space Observatory. In Proc. of "5th Zermatt Symposium", Zermatt, Switzerland, 2010. (Eds.) M. Roellig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publ. Ser. 52, European Astronomical Society, 173-176 (2011).

Holland, S.T., M. de Pasquale, J. Mao, T. Sakamoto, P. Schady, S. Covino, P. D'Avanzo, A. Antonelli, V. D'Elia, G. Chincarini, F. Fiore and S.B. Pandey: GRB 081029: Understanding Multiple Afterglow Components. In Proc. of "Gamma Ray Bursts 2010",

Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 130-133 (2011).

Huarte-Espinosa, M., M. Krause and P. Alexander: 3D-MHD simulations of the evolution of magnetic fields in FR II radio sources. In Proc. of "275th IAU Symposium", Buenos Aires, Argentina, 2010. (Eds.) G.E. Romero, R. Sunyaev, T. Belloni. Proc. IAU 275, Cambridge University Press, Cambridge, UK, 170-171 (2011).

Hurley, K., S. Golenetskii, R. Aptekar, ..., A. von Kienlin, A. Rau, et al.: The Third Interplanetary Network. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 385-388 (2011).

Irastorza, I.G., S. Aune, K. Barth, ..., H. Bräuninger, et al.: Latest results and prospects of the CERN Axion Solar Telescope. Journal of Physics Conf. Ser. 309, 012001 (2011).

Jiang, K., L.-J. Hou, A.V. Ivlev, Y.-F. Li, C.-R. Du, H.M. Thomas, G.E. Morfill and K.R. Sütterlin: Initial stages in phase separation of binary complex plasmas: Numerical experiments. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 317-318 (2011).

Kartavykh, Y.Y., W. Dröge, B. Klecker, G.A. Kovaltsov, L. Kocharov and E. Möbius: Possibility of solar energetic particles enrichment with trans-iron ions via the effect of coulomb losses in the acceleration region. Bulletin of the Russian Academy of Science, Phys. 75, 755-757 (2011).

Kartavykh, Y.Y., W. Dröge, B. Klecker, L. Kocharov, G. Kovaltsov and E. Möbius: A possible enrichment of heavy and ultraheavy ions in Solar Energetic Particle Events due to the effect of Coulomb Losses. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 27-30 (2011).

Kartavykh, Y.Y., W. Dröge, G. Kovaltsov, R. Gómez-Herrero, N. Dresing, B. Klecker and B. Heber: Three-dimensional anisotropic transport simulations: a parameter study for the interpretation of multi-spacecraft solar energetic particle observations. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 194-197 (2011).

Khochfar, S.: Gravity at Work: How the Build-Up of Environments Shape Galaxy Properties. In Proc. of "Environment and the Formation of Galaxies: 30 years later", Lisbon, Portugal, 2010. (Eds.) I. Ferreras, A. Pasquali. JENAM 2010: Environment and the Formation of Galaxies: 30 years later, Astrophysics and Space Science Proceedings, Springer Berlin, 247-253 (2011).

Khrapak, S.A., B.A. Klumov, P. Huber, V.I. Molotkov, A.M. Lipaev, V.N. Naumkin, H.M. Thomas, A.V. Ivlev, G.E. Morfill, O.F. Petrov, V.E. Fortov, Y. Malentschenko and S. Volkov: Freezing and melting of 3D complex plasma structures driven by neutral gas pressure manipulation in PK-3 Plus experiment. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 359-360 (2011).

Khrapak, S.A., M. Chaudhuri and G.E. Morfill: Universal properties of the melting curves for a wide class of interparticle interactions. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 138-141 (2011).

Kiss, C., A. Pál, T. Müller, P. Santos-Sanz, E. Vilenius, N. Szalai, E. Lellouche and H. Bönhardt: Sedna, Eris and Quaoar: physical properties of prominent trans-Neptunian

objects, based on Herschel observations. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. (Eds.) EPSC-DPS Joint Meeting 2011, 1124 (2011).

Klecker, B., M. A. Popecki and E. Möbius: Iron charge distributions during the onset phase of large SEP events. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 36-39 (2011).

Klumov, B.A., S.A. Khrapak and G.E. Morfill: Structural properties of dense hard sphere systems near random close packing. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 441-442 (2011).

Knapek, C.A., C. Durniak, D. Samsonov and G.E. Morfill: Kinetic Process of a 2D Phase Transition. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 361-362 (2011).

Komossa, S.: Radio properties of Narrow-Line Seyfert 1 Galaxies. In Proc. of "Narrow-Line Seyfert 1 Galaxies and their place in the Universe", Milano, Italy, 2011. (Eds.) L. Foschini, M. Colpi, L. Gallo, D. Grupe, S. Komossa, K. Leighly, S. Mathur. Proceedings of Science, published online (2011).

Kompaneets, R., A.V. Ivlev, S.V. Vladimirov and G.E. Morfill: Higher Landau modes and dust shielding in field-driven ion flows. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 56-59 (2011).

Kothe, S., M. Krause, C. Güttler, J. Blum, E. Beitz and R. Weidling: A Protoplanetesimal Dust Collision Model Based on Experiments. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 412 (2011).

Krause, M., M. Schartmann and A. Burkert: Dynamics of clouds in the broad-line region. In Proc. of "Narrow-Line Seyfert 1 Galaxies and their place in the Universe", Milano, Italy, 2011. (Eds.) L. Foschini, M. Colpi, L. Gallo, D. Grupe, S. Komossa, K. Leighly, S. Mathur. Proceedings of Science, published online (2011).

Kristensen, L.E., R. Visser, E.F. van Dishoeck, U.A. Yildiz, G.J. Herczeg, S. Doty, J.K. Jørgensen, T.A. van Kempen, C. Brinch, S. Wampfler, S. Bruderer and A.O. Benz: WISHes coming true: water in low-mass star-forming regions with Herschel. In Proc. of "5th Zermatt Symposium", Zermatt, Switzerland, 2010. (Eds.) M. Roellig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publ. Ser. 52, European Astronomical Society, 177-180 (2011).

Lechner, P., L. Andricek, S. Aschauer, G. De Vita, G. Lutz, M. Porro, R.H. Richter, C. Sandow, H. Soltau, L. Strüder, A. Bähr, K. Hermenau, T. Hildebrand and G. Schaller: DEPFET Active Pixel Sensor with Non-Linear Amplification. In Proc. of "Proceedings of the IEEE Nuclear Science Symposium (NSS/MIC)", Valencia, Spain, 2011. (Eds.) Z. Bell, J. Karp. NSS/MIC Conference records, published electronically, 122-128 (2011).

Lellouch, E., P. Hartogh, H. Feuchtgruber, B. Swinyard, R. Moreno, T. Cavalié, G. Orton, D. Bockelée-Morvan, N. Biver, H. Sagawa and C. Jarchow: Observations of the Giant Planets with Herschel. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 875 (2011).

Linnartz, H., J.-B. Bossa, J. Bouwman, H.M. Cuppen, S.H. Cuylle, E.F. van Dishoeck, E.C. Fayolle, G. Fedoseev, G.W. Fuchs, S. Ioppolo, K. Isokoski, T. Lamberts, K.I. Öberg, C. Romanzin, E. Tenenbaum and J. Zhen: Solid State Pathways towards Molecular Complexity in Space. In Proc. of "280th IAU Symposium", Toledo, Spain, 2011. (Eds.) J. Cernicharo, R. Bachiller. Proc. IAU 280, Cambridge University Press, Cambridge,

UK, 390-404 (2011).

Lisse, C.M., D.J. Christian, S.J. Wolk, D. Bodewits, K. Dennerl, M.R. Combi, S.T. Lepri and T.H. Zurbuchen: Chandra ACIS-S X-ray Imaging Spectroscopy of Comet 103P/Hartley 2. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1745 (2011).

Lutz, D. and Pep Consortium: A Herschel View on Galaxy/AGN Co-Evolution. In Proc. of "Galaxy Evolution: Infrared to Millimeter Wavelength Perspective", Guilin, China, 2010. (Eds.) W. Wang, Z. Yang, J. Lu, Z. Chen, Z. Luo. ASP Conf. Ser. 446, Astronomical Society of the Pacific, San Francisco, CA USA, 193 (2011).

Lutz, D.: Galaxy formation from deep surveys with Herschel-PACS. In Proc. of "5th Zermatt Symposium", Zermatt, Switzerland, 2010. (Eds.) M. Roellig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publ. Ser. 52, European Astronomical Society, 47-53 (2011).

Löwen, H., C.P. Royall, A. Ivlev and G.E. Morfill: Charged colloidal suspensions and their link to complex plasmas. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 201-210 (2011).

Madden, S.C., M. Galametz, D. Cormier, V. Lebouteiller, F. Galliano, S. Hony, A. Rémy, M. Sauvage, A. Contursi, E. Sturm, A. Poglitsch, M. Pohlen, M.W.L. Smith, G. Bendo and B. O'Halloran: The Elusive ISM of Dwarf Galaxies: Excess Submillimetre Emission & CO-Dark Molecular Gas. In Proc. of "5th Zermatt Symposium", Zermatt, Switzerland, 2010. (Eds.) M. Roellig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publ. Ser. 52, European Astronomical Society, 95-101 (2011).

Molotkov, V.I., A.M. Lipaev, V.N. Naumkin, H.M. Thomas, M. Schwabe, A.V. Ivlev, S.A. Khrapak, V.E. Fortov and G.E. Morfill: Interpenetration of two clouds of microparticles in complex plasma under microgravity conditions. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 377-378 (2011).

Mommert, M., A.W. Harris, T.G. Müller, J. Stansberry, E. Lellouch, H. Böhnhardt, A. Delsanti, R. Duffard, S. Fornasier, P. Hartogh, F. Henry, C. Kiss, M. Müller, A. Pal, S. Protopapa, P. Santos-Sanz, N. Szalai, M. Rengel and E. Vilenius: TNOs are Cool: A Survey of the Transneptunian Region - Physical Characterization of 16 Plutinos using PACS observations. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. (Eds.) EPSC-DPS Joint Meeting 2011, 906 (2011).

Monetti, R., J. Bauer, T. Baum, I. Sidorenko, D. Müller, F. Eckstein, T. Link and C. Räth: The locally adapted scaling vector method: A new tool for quantifying anisotropic structures in bone images. In: "Computer Tomography - Special Applications." (Ed.) L. Saba. InTech, Rijeka, Croatia, 37-56 (2011).

Müller, T., E. Lellouch, C. Kiss, T. Lim, S. Fornasier, P. Santos-Sanz, E. Vilenius, A. Delsanti, R. Duffard, P. Hartogh, F. Henry, M. Mommert, M. Müller, N. Szalai, J. Stansberry and J.L. Ortiz: Makemake: A truly exotic TNO!. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1416 (2011).

Müller, T.G., S. Hasegawa and M. Abe: Near-Earth asteroid 162173 (1999 JU3): Constraining size, albedo, shape, spin-axis and thermal properties via thermophysical model techniques. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1505 (2011).

Nardini, M., J. Greiner, S. Klose, T. Krühler, R. Filgas, P. Schady, P. Afonso, C. Clemens, A.N. Guelbenzu, F. Olivares E., A. Updike, A. Rossi, A.K. Yoldaş, A. Yoldaş, D. Burlon, J. Elliott and D.A. Kann: What can produce a sharp late time optical re-

brightening? Optical bumps in the multi-color imaging era. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP. Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 150-153 (2011).

Nosenko, V.Y., P.K. Shukla, M.H. Thoma and H.M. Thomas: PREFACE: Dusty/Complex Plasmas: Basic and Interdisciplinary Research. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 1-2 (2011).

Oates, S.R., M.J. Page, P. Schady, M. de Pasquale, P.A. Evans, K.L. Page, M.M. Chester, P. Curran, T.S. Koch, N.P.M. Kuin, P.W.A. Roming, M. Siegel, S. Zane and J.A. Nousek: A Statistical Comparison of the Optical/UV and X-ray GRB Afterglows Observed using the Swift UVOT and XRT. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP. Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 154-157 (2011).

Öberg, K.I., A.C.A. Boogert, K.M. Pontoppidan, S. van den Broek, E.F. van Dishoeck, S. Bottinelli, G.A. Blake and N.J. Evans: Ices in Starless and Starforming Cores. In Proc. of "280th IAU Symposium", Toledo, Spain, 2011. (Eds.) J. Cernicharo, R. Bachiller. Proc. IAU 280, Cambridge University Press, Cambridge, UK, 65-78 (2011).

Oklopčić, A., V. Smolčić, S. Giodini, G. Zamorani, L. Bhatirzan, E. Schinnerer, C.L. Carilli, A. Finoguenov, S. Lilly, A. Koekemoer and N.Z. Scoville: A wide-angle tail galaxy at z = 0.53 in the COSMOS field. Mem. Soc. Astron. Ital. 82, 161 (2011).

Orban de Xivry, G., R. Davies, M. Schartmann, S. Komossa, A. Marconi, E. Hicks, H. Engel and L. Tacconi: Past and present secular evolution in the host galaxies of NLS1s. In Proc. of "Narrow-Line Seyfert 1 Galaxies and their place in the Universe", Milano, Italy, 2011. (Eds.) L. Foschini, M. Colpi, L. Gallo, D. Grupe, S. Komossa, K. Leighly, S. Mathur. Proceedings of Science, published online (2011).

O'Rourke, L., T. Müller, I. Valtchanov, B. Altieri, B.M. González-Garcia, B. Bhattacharya, L. Jorda, B. Carry, M. Küppers, O. Groussin, K. Altwegg, M.A. Barucci, D. Bockelee-Morvan, J. Crovisier, E. Dotto, P. Garcia-Lario, M. Kidger, A. Llorente, R. Lorente, A.P. Marston, M. Sanchez Portal, R. Schulz, M. Sierra, D. Teyssier and R. Vavrek: Herschel Observations of (21) Lutetia around the Rosetta Flyby. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1464 (2011).

Paumard, T., S. Gillessen, W. Brander, ..., H. Bartko, ..., K. Dodds-Eden, F. Eisenhauer, ..., R. Genzel, A. Gräter, ..., M. Haug, S. Hippler, R. Hofmann, ..., S. Rabien, ..., M. Thiel, et al.: Science with GRAVITY, the NIR Interferometric Imager. In Proc. of "The Galactic Center: A Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. ASP Conf. Ser. 439, Astronomical Society of the Pacific, San Francisco, CA USA, 267 (2011).

Perna, D., E. Dotto, M.A. Barucci, E. Mazzotta Epifani, M. Dall'Ora and E. Vilenius: Photometry of TNOs and Centaurs in support of a Herschel Key Programme. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. (Eds.) EPSC-DPS Joint Meeting 2011, 961 (2011).

Popecki, M. A., B. Klecker and E. Möbius: Iron charge distributions for four large SEP events in the energy range 0.23-0.33 MeV/nu: implications for source populations. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 44-47 (2011).

Porro, M.: Development of the DSSC: a Large Format X-Ray Imager with MHz Readout Capability for the European XFEL. In Proc. of "IEEE Nuclear Science Symposium (NSS/MIC)", Valencia, Spain, 2011. (Eds.) Z. Bell, J. Karp. NSS/MIC Conference

records, published electronically (2011).

Rengel, M., P. Hartogh and T. Müller: Communicating Herschel Key Programs in Solar System Studies to the Public. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 883 (2011).

Rypdal, K., B. Klumov, B. Kozelov, R. Kube and M. Rypdal: Exploring the Analogy Between Freezing of a 2D Yukawa Liquid and 2D Decaying Turbulence in Fluids. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 72-77 (2011).

Sani, E., D. Lutz, G. Risaliti, H. Netzer, L. Gallo, B. Trakhtenbrot, E. Sturm and T. Boller: Enhanced star formation in Narrow-Line Seyfert 1 galaxies. In Proc. of "Narrow-Line Seyfert 1 Galaxies and their place in the Universe", Milano, Italy, 2011. (Eds.) L. Foschini, M. Colpi, L. Gallo, D. Grupe, S. Komossa, K. Leighly, S. Mathur. Proceedings of Science, published online (2011).

Santos-Sanz, P., C. Kiss, E. Lellouch, T.G. Müller, J. Stansberry, H. Böhnhardt, P. Lacerda, J.L. Ortiz, A. Thirouin, R. Duffard, A. Pal, E. Vilenius, S. Fornasier, T. Lim and "TNOS Are Cool" Team: Thermal lightcurve observations of TNOs with Herschel. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1099 (2011).

Schartmann, M., K. Meisenheimer, H. Klahr, M. Camenzind, S. Wolf, T. Henning, A. Burkert and M. Krause: Hydrodynamic Studies of Turbulent AGN Tori. In Proc. of "JENAM 2008: Grand Challenges in Computational Astrophysics", Vienna, Austria, 2008. (Eds.) H. Wozniak, G. Hensler. EAS Publ. Ser. 44, European Astronomical Society, 69-72 (2011).

Schulze, S., S. Klose, G. Björnsson, P. Jakobsson, D.A. Kann, A. Rossi, T. Krühler, J. Greiner and P. Ferrero: The circumburst density profile around GRB progenitors. In Proc. of "Gamma Ray Bursts 2010", Annapolis, MD, USA, 2010. (Eds.) J.E. McEnery, J.L. Racusin, N. Gehrels. AIP. Conf. Proc. 1358, American Institute of Physics, Melville, NY USA, 165-168 (2011).

Schwabe, M., S. Zhdanov, A.V. Ivlev, H.M. Thomas and G.E. Morfill: Exploring the limits of cooperative phenomena using complex plasmas. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 66-71 (2011).

Stairs, I.H., M.J. Keith, Z. Arzoumanian, W. Becker, et al.: Pulsars with the Australian Square Kilometre Array Pathfinder. In Proc. of "Radio Pulsars: An astrophysical Key to unlock the Secrets of the Universe", Chia, Italy, 2010. (Eds.) M. Burgay, N.D. Amico, P. Esposito, A. Pellizzoni, A. Possenti. AIP. Conf. Proc. 1357, American Institute of Physics, Melville, NY USA, 335-340 (2011).

Stansberry, J.A., T.G. Müller, J.-L. Ortiz, P. Santos-Sanz, E. Vilenius, E. Lellouch and C. Kiss: Physical Properties of the Haumea Family from Herschel. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1437 (2011).

Sturm, E., A. Poglitsch, A. Contursi, J. Graciá-Carpio, J. Fischer, E. González-Alfonso, R. Genzel, S. Hailey-Dunsheath, D. Lutz, L. Tacconi, J. Dejong, A. Sternberg, A. Verma, S. Madden, L. Vigroux, D. Cormier, U. Klaas, M. Nielbock, O. Krause, J. Schreiber and M. Haas: Star formation and the ISM in infrared bright galaxies - SHINING. In Proc. of "5th Zermatt Symposium", Zermatt, Switzerland, 2010. (Eds.) M. Röllig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publ. Ser. 52, European Astronomical Society,

55-61 (2011).

Sultana, S., I. Kourakis and V.V. Yaroshenko: Strong electrostatic interaction effect on modulational stability of dust acoustic waves. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 435-436 (2011).

Sun, L., Y.Y. Kartavykh, B. Klecker and W. Dröge: Transport of solar energetic electrons through the Earth's bow shock and in the magnetosheath. In Proc. of "32nd Intern. Cosmic Ray Conf.", Beijing, China, Vol 10, p. 190-193 (2011).

Thibon, M., X. Haubois, K. Dodds-Eden, A. Weiss, T. Paumard, Y. Clénet, G. Perrin, S. Gillessen, R. Genzel, D. Rouan and É. Pantin: Observing the Galactic Center in the Mid-Infrared. In Proc. of "The Galactic Center: A Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. ASP Conf. Ser. 439, Astronomical Society of the Pacific, San Francisco, CA USA, 35 (2011).

Trap, G., A. Weiss, A. Goldwurm, K. Dodds-Eden, R. Terrier, G. Ponti, S. Gillessen, R. Genzel, G. Bélanger and Y. Clénet: Simultaneous X-ray, Near-Infrared, and Submillimeter Observations of Sgr A*. In Proc. of "The Galactic Center: A Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. ASP Conf. Ser. 439, Astronomical Society of the Pacific, San Francisco, CA USA, 304 (2011).

Trippe, S., S. Gillessen, O.E. Gerhard, H. Bartko, T.K. Fritz, F. Eisenhauer, T. Ott, K. Dodds-Eden, R. Genzel, H.L. Maness and F. Martins: Kinematics of the Old Stellar Population at the Galactic Centre. In Proc. of "The Galactic Center: A Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. ASP Conf. Ser. 439, Astronomical Society of the Pacific, San Francisco, CA USA, 232 (2011).

Trümper, J. and R. Lüst: Nachruf Professor A. Schlüter. Akademie Aktuell 03, 60-61 (2011).

Usachev, A.D., A.V. Zobnin, O.F. Petrov, V.E. Fortov, M.H. Thoma, H. Höfner, M. Kretschmer, M. Fink and G.E. Morfill: Structural and Dynamic Phenomena in the "Plasma Kristall-4" Experiments under Microgravity Conditions. In Proc. of "Dusty/-Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 114-117 (2011).

Uslenghi, M., M. Fiorini, C. Fiorini, L. Bombelli, S. Facchinetti, A. Marone, G. Rocco, C. Vermi, A. Candelori, S. Mattiazzo, L. Silvestrin, J. Wyss, S. Herrmann, G. De Vita, M. Porro, A. Wassatsch and S. Incorvaia: Study of Single Event Transients on the VELA ASIC, x-ray detectors FEE for new generation astronomical instruments. In Proc. of "IEEE Nuclear Science Symposium (NSS/MIC)", Valencia, Spain, 2011. (Eds.) Z. Bell, J. Karp. NSS/MIC Conference records, published electronically (2011).

Vasilyak, L.M., F.I. Vysykailo, V.E. Fortov, V.I. Molotkov, G.E. Morfill and H.M. Thomas: Formation of Jet Propulsion Near Dust Particle in Plasma. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 341-342 (2011).

Vennik, J. and U. Hopp: Dwarf Galaxies in Nearby Groups of Galaxies. In Proc. of "A Universe of Dwarf Galaxies", Lyon, France, 2010. (Eds.) M. Koleva, Ph. Prugniel, I. Vauglin. EAS Publ. Ser. 48, European Astronomical Society, 149-151 (2011).

Vilenius, E., T. Müller, A. Pal, P. Santos-Sanz, M. Rengel, P. Hartogh, S. Protopapa, M. Müller, M. Mommert, J. Stansberry, E. Lellouch, H. Böhnhardt, J.L. Ortiz, A. Thirouin, F. Henry, A. Delsanti, S. Fornasier, D. Hestroffer and E. Dotto: TNOs are Cool: Thermophysical modeling of a sample of 20 classical KBOs using Herschel/PACS. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 1299 (2011).

Vincent, F.H., T. Paumard, G. Perrin, E. Gourgoulhon, F. Eisenhauer and S. Gillessen: Towards constraining the central black hole's properties by studying its infrared flares with the GRAVITY instrument. In Proc. of "Annual meeting of the French Society of Astronomy and Astrophysics", Paris, France, 2011. (Eds.) G. Alecian, K. Belkacem, R. Samadi and D. Valls-Gabaud. SF2A-2011: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics, published online, 689-693 (2011).

Vincent, F.H., T. Paumard, G. Perrin, L. Mugnier, F. Eisenhauer and S. Gillessen: Astrometric Study of the Complex Environment of Sgr A* in Imaging Mode with the VLTI/GRAVITY Instrument. In Proc. of "The Galactic Center: A Window to the Nuclear Environment of Disk Galaxies", Shanghai, China, 2009. (Eds.) M.R. Morris, Q.D. Wang, F. Yuan. ASP Conf. Ser. 439, Astronomical Society of the Pacific, San Francisco, CA USA, 275 (2011).

Visser, R., E.F. van Dishoeck and S.D. Doty: Chemical History of Molecules in Circumstellar Disks. In Proc. of "280th IAU Symposium", Toledo, Spain, 2011. (Eds.) J. Cernicharo, R. Bachiller. Proc. IAU 280, Cambridge University Press, Cambridge, UK, 138-148 (2011).

Wang, T., J. Huang, S. Wuyts, G. Fang, G. Fazio, Z. Chen, X. Kong and Q. Gu: SEDs and NIR Morphologies of Old and Dusty Galaxies at z$\sim$2. In Proc. of "Galaxy Evolution: Infrared to Millimeter Wavelength Perspective", Guilin, China, 2010. (Eds.) W. Wang, Z. Yang, J. Lu, Z. Chen, Z. Luo. ASP Conf. Ser. 446, Astronomical Society of the Pacific, San Francisco, CA USA, 303 (2011).

Weidenspointner, G., R. Andritschke, S. Granato, M. Porro, C. Sandow, L. Strüder, K. Hansen, P. Fischer, T. Sant, S. Aschauer, P. Lechner, and G. Lutz: Strategy for calibrating the non-linear pixel characteristic of the DSSC detector for XFEL. In Proc. of "IEEE Nuclear Science Symposium and Medical Imaging Conference", Valencia, Spain, 2011. (Eds.) Z. Bell, J. Karp. NSS/MIC Conference records, published electronically, (2011).

Wilman, D.J., P. Erwin, G. De Lucia, F. Fontanot and P. Monaco: The Origin of the Morphology-Density Relation. In Proc. of "Environment and the Formation of Galaxies: 30 years later", Lisbon, Portugal, 2010. (Eds.) I. Ferreras, A. Pasquali. JENAM 2010: Environment and the Formation of Galaxies: 30 years later, Astrophysics and Space Science Proceedings, 215 (2011).

Winkler, C., R. Diehl, P. Ubertini and J. Wilms: INTEGRAL: Science Highlights and Future Prospects. Space Sci. Rev. 161, 149-177 (2011).

Xu, D. and S. Komossa: The narrow-line region of narrow-line Seyfert 1 galaxies. In Proc. of "Narrow-Line Seyfert 1 Galaxies and their place in the Universe", Milano, Italy, 2011. (Eds.) L. Foschini, M. Colpi, L. Gallo, D. Grupe, S. Komossa, K. Leighly, S. Mathur. Proceedings of Science, published online (2011).

Yildiz, U.A., E.F. van Dishoeck, L.E. Kristensen, R. Visser, G. Herczeg, T.A. van Kempen, J.K. Jørgensen, M.R. Hogerheijde and Wish Team: Energetic processes revealed by spectrally resolved high-J CO lines in low-mass star-forming regions with Herschel-HIFI. In Proc. of "5th Zermatt Symposium", Zermatt, Switzerland, 2010. (Eds.) M. Roellig, R. Simon, V. Ossenkopf, J. Stutzki. EAS Publ. Ser. 52, European Astronomical Society, 313-314 (2011).

Yaroshenko, V.V., V. Nosenko and G.E. Morfill: Dust Acoustic Waves in Strongly Coupled

Complex Plasmas. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 409-410 (2011).

Yaroshenko, V.V., W. Miloch, S. Vladimirov and G.E. Morfill: Modelling of Cassini charging and wake formation in Saturn's Magnetosphere. In Proc. of "EPSC-DPS Joint Meeting 2011", Nantes, France, 2011. EPSC-DPS Joint Meeting 2011, 871 (2011).

Yaroshenko, V.V., W.J. Miloch, S. Vladimirov and G.E. Morfill: Cassini's Charging and Ion Wake Formation in Saturn's Magnetosphere. In Proc. of "Dusty/Complex Plasmas: Sixth International Conference on the Physics of Dusty Plasmas", Garmisch-Partenkirchen, Germany, 2011. (Eds.) V.Y. Nosenko, P.K. Shukla, M.H. Thoma, H.M. Thomas. AIP. Conf. Proc. 1397, American Institute of Physics, Melville, NY USA, 449-450 (2011).

7.4 Bücher

Diehl, R., D.H. Hartmann, N. Prantzos (Eds.): "Astronomy with Radioactivities". Series: Lecture Notes in Physiscs, Vol. 812, Springer, Berlin (2011), 564 p.

Nosenko, V.Y., P.K. Shukla, M.H. Thoma and H.M. Thomas (Eds.): Dusty/Complex Plasmas: Basic and Interdisciplinary Research - Proceedings of the 6th International Conference on the Physics of Dusty Plasmas. AIP Conference Proceedings 1397, Melville, New York 2011, 464 p.

7.5 Populärwissenschaftliche und sonstige Veröffentlichungen

Cirasuolo, M., J. Afonso, R. Bender, P. Bonifacio, C. Evans, L. Kaper, E. Oliva and L. Vanzi: MOONS: The Multi-Object Optical and Near-infrared Spectrograph. The Messenger 145, 11-13 (2011).

Eisenhauer, F., G. Perrin, W. Brandner, ..., S. Gillessen, ..., T. Paumard, ..., , A. Gräter, ..., O. Pfuhl, ..., R. Hofmann, ..., H. Bartko, K. Dodds-Eden, ..., R. Genzel and P. Lena: GRAVITY: Observing the Universe in Motion. The Messenger 143, 16-24 (2011).

Förster Schreiber, N.M., R. Genzel, A. Renzini, L.J. Tacconi, S.J. Lilly, N. Bouche, A. Burkert, P. Buschkamp, C.M. Carollo, G. Cresci, R. Davies, F. Eisenhauer, S. Genel, S. Gillessen, E.K.S. Hicks, T. Jones, J. Kurk, D. Lutz, ..., S. Wuyts, et al.: The SINS and zC-SINF surveys: The growth of massive galaxies at z $\sim$ 2 through detailed kinematics and star formation with SINFONI. The Messenger 145, 39-43 (2011).

Pontoppidan, K.M., E. van Dishoeck, G.A. Blake, R. Smith, J. Brown, G.J. Herczeg, J. Bast, A. Mandell, A. Smette, W.-F. Thi, E.D. Young, M.R. Morris, W. Dent and H.U. Käufl: Planet-forming Regions at the Highest Spectral and Spatial Resolution with VLT-CRIRES. The Messenger 143, 32-36 (2011).

7.6 Vorträge, Astronomische Telegramme und Zirkulare, Poster

Von Mitarbeitern des MPE wurden im Jahre 2011 insgesamt 364 Vorträge auf Konferenzen, bei Seminaren und Kollquien und in der Öffentlichkeitsarbeit im In- und Ausland gehalten. Zusätzlich haben sie an insgesamt 94 astronomischen Telegrammen und Zirkularen mitgewirkt und 45 Postern als Erstautoren auf Konferenzen präsentiert. Die Zahlen, verteilt auf die einzelnen Arbeitsbereiche, sind in Tabelle 1 gelistet. Die Zahlen in Klammern geben die eingeladenen Vorträge (bei Konferenzen und zu Kollquien) an, sowie die Zahl der Erstautorschaften bei Telegrammen und Zirkularen.

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

Tabelle 1: Vorträge, Telegramme/Zirkulare und Poster

Arbeitsgruppe	Vorträge	Telegramme, Zirkulare	Poster
Infrarot-/Submillimeter-Astronomie	133 (94)	3 (2)	8
Optische & Interpretative Astronomie	57 (43)	5 (1)	3
Hochenergieastrophysik	119 (75)	86 (48)	13
Theorie / Komplexe Plasmen	55 (32)	0 (0)	21

8 Öffentlichkeitsarbeit

Das MPE engagiert sich auch in der Öffentlichkeitsarbeit. Am Tag der "Offenen Tür" im Oktober 2011 besuchten etwa 2500 Personen das MPE und wurden von unseren Mitarbeitern in Vorträgen, Ausstellungen und im direkten Gespräch über unsere Wissenschaft, unsere Instrumente und Arbeitsmethoden informiert. Im Jahre 2011 hielten MPE-Wissenschaftler 28 Vorträge vor einem Laien-Publikum (z.B. an Schulen, Planetarien, bei Astronomischen Vereinigungen). In Institutsführungen wurde 28 Gruppen von bis zu 35 Personen, hauptsächlich Schüler und Lehrer von naturwissenschaftlich orientierten Schulen, das Institut und seine Arbeit erläutert. Am "Girl's Day" informierten sich 50 Mädchen über das MPE, 13 Schüler/innen erhielten in ein- oder zweiwöchigen Praktika und 7 Hochschüler in mehrwöchigen Praktika einen Einblick in die Arbeitswelt von Astro- und Plasmaphysikern.

Weitere Informationen zur Öffentlichkeitsarbeit sind auf den MPE Webseiten zu finden (`http://www.mpe.mpg.de/popus-d.html`).

Ralf Bender