

# JAHRESSTATISTIK 2013

Max-Planck-Institut für  
extraterrestrische Physik  
Garching



## **Impressum**

Herausgeber: Max-Planck-Institut für extraterrestrische Physik

Redaktion und Layout: W. Collmar und J. Zanker-Smith

# PERSONAL 2013

## Direktoren

Prof. Dr. R. Bender, Optische und Interpretative Astronomie, gleichzeitig Lehrstuhl für Astronomie/Astrophysik an der Ludwig-Maximilians-Universität München (Geschäftsführung)

Prof. Dr. R. Genzel, Infrarot- und Submillimeter-Astronomie, gleichzeitig Prof. of Physics, University of California, Berkeley (USA)

Prof. Dr. G. Morfill, Theorie, Komplexe Plasmen, Nichtlineare Dynamik

Prof. Dr. K. Nandra, Hochenergie-Astrophysik

Prof. Dr. G. Haerendel (emeritiertes wiss. Mitglied)

Prof. Dr. R. Lüst (emeritiertes wiss. Mitglied)

Prof. Dr. K. Pinkau (emeritiertes wiss. Mitglied)

Prof. Dr. J. Trümper (emeritiertes wiss. Mitglied)

## Selbstständige Nachwuchsgruppen und Minerva

### Fellows

Dr. N.M. Förster Schreiber

Dr. S. Gillessen

Dr. S. Khochfar

Dr. P. Schady

### MPG Fellow

Prof. Dr. A. Burkert (LMU)

### Direktionsassistent

Prof. Dr. W. Becker

### Wissenschaftlicher Sekretär

Dr. W. Collmar

### Pressesprecherin

Dr. H. Hämmerle

### Auswärtige wissenschaftliche Mitglieder

Prof. Dr. E. van Dishoeck, Univ. Leiden (Niederlande)

Prof. Dr. V. Fortov, IHED, Moscow (Russland)

Prof. Dr. John Kormendy, Univ. of Texas at Austin (USA)

Prof. Dr. R. Z. Sagdeev, Univ. of Maryland (USA)

Prof. Dr. M. Schmidt, CALTECH, Pasadena (USA)

Prof. Dr. Y. Tanaka, JSPS, Bonn, MPE (Deutschland)

Prof. Dr. C.H. Townes, Univ. of California, Berkeley (USA)

### Kuratorium (gemeinsam mit dem MPI für Astrophysik)

Dr. L. Baumgarten, ehem. Vorstandsmitglied DLR

Prof. Dr. A. Bode, TU München (Vizepräsident)

J. Breitskopf, Kayser-Threde GmbH, München

H.-J. Dürrmeier, ehem. Süddeutscher Verlag, München

Prof. Dr. W. Glatthaar, ehem. Präsident der priv. Universität Witten/Herdecke GmbH, Stuttgart (Vorsitzender des Kuratoriums)

Min. Dirig. Dr. G. Gruppe, Bayerisches Staatsministerium für Wirtschaft, Infrastruktur, Verkehr und Technologie, München

Prof. Dr. B. Huber, Rektor der LMU München

Dr. M. Mayer, ehem. Mitglied des Bundestages, Höhenkirchen

Min. Dir. J. Meyer, Bundesministerium für Wirtschaft und Technologie, Berlin

Prof. Dr. E. Rohkamm, Blohm + Voss GmbH, Hamburg

### Fachbeirat

Prof. Dr. J. Bergeron, Institute d'Astrophysique de Paris (Frankreich)

Prof. Dr. M. Colless, Australian Astronomical Observatory, Epping (Australien)

Prof. Dr. K. Freeman, Mount Stromolo Observatory (Australien)

Dr. N. Gehrels, NASA/GSFC (USA)

Prof. Dr. F. Harrison, CALTECH (USA)

Prof. Dr. R. Kennicutt, University of Cambridge (UK)

Prof. Dr. E. Quataert, University of California, Berkeley (USA)

Prof. Dr. G. Stacey, Cornell University (USA)

### Fachübergreifende Fachbeiräte

Prof. Dr. G. Anton, Universität Erlangen-Nürnberg (Deutschland)

Prof. Dr. M. Perryman, ESA/ESTEC (Niederlande)

### Humboldt-Forschungspreisträger

Prof. Dr. P. Henry, University of Hawaii (USA)

### A. v. Humboldt-Stipendiaten

Dr. V. Yaroshenko, Universiteit Gent (Belgien)

### Wissenschaftliche Auszeichnungen, Berufungen

Chaudhuri, M.: Parvez-Guzdar-Preis für junge Wissenschaftler, Indische Gesellschaft für Plasmawissenschaften, Pondicherry, Indien, Januar 2013.

Fortov, V.: Präsident der "Russischen Akademie für Wissenschaften", Moskau, Russland, Mai 2013.

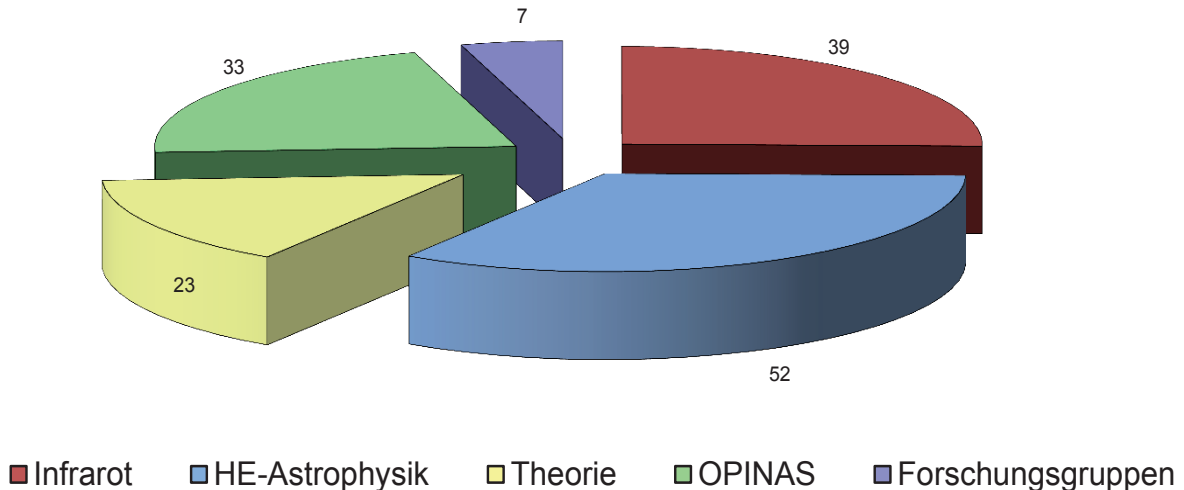
Genzel, R.: Orden pour le Mérite für Wissenschaften und Künste, Bonn, Germany, Oktober 2013.

Pfuhl, O.: Universe PhD Award 2013, Technische Universität München, München, Germany, November 2013.

Thoma, M.: Justus-Liebig-Universität Giessen: W3-Professur für Plasma- und Raumfahrtphysik, Giessen, Germany, Juni 2013.

## Wissenschaftliche Arbeitsgruppen

Mitarbeiter nach wissenschaftlichen Arbeitsgruppen



### Infrarot / Submillimeter-Astronomie

Sekretariat: Dengler, S. (seit 2.4.); Harai-Ströbl, S.

Agudo Berbel, A.; Bandara, Dr. K.; Berta, Dr.S.; Blind, Dr. N.; Bruderer, Dr. S.; Buschkamp, Dr. P.; Contursi, Dr. A.; Davies, Dr. R.; de Jong, Dr. J.A.; Dr. K.; Doublier Pritchard, Dr. V.; Eisenhauer, Dr. F.; Fedele, Dr. D.; Feuchtgruber, Dipl.-Phys. H.; Förster Schreiber, Dr. N.; Gillessen, Dr. S.; Gracia Carpio, Dr. J.; Hartl, Dr. M.; Hofmann, Dr. R.; Kleiser, A.; Kok, Dr. Y. (seit 13.9.); Kurk, Dr. J.; Lutz, Dr. D.; Müller, Dr. T.; Osterhage, S.; Pfuhl, Dr. O.; Popesso, Dr. P. (bis 30.4.); Poglitsch, Dr. A.; Raab, Dr. W.; Rabien, Dr. S.; Rief, Dr. A. (10.6.-31.8.); Rosario, Dr. D.; Saintonge, Dr. A. (bis 30.8.); Schrubba, Dr. A. (seit 1.10.); Sturm, Dr. E.; Tacconi, Dr. L.; Vilenius, Dr. E.; Wisnioski, Dr. E.; Wuyts, Dr. E.; Wuyts, Dr. S.; Zanker-Smith, J.

#### Gäste

Netzer, Dr. H. (2.7.-23.8.); Newman, S. (29.5.-12.7.); Sternberg, Prof. A. (10.-17.7.); Veilleux, Prof. S. (2.7.-30.8.)

#### Doktoranden / Diplomanden / Master

Fritz, Dipl. Phys. T. (bis 30.9., Gillessen); Fuchs, L. (seit 9.4., S. Wuyts); Fudamoto, Y. (seit 5.8., Master; Förster Schreiber); Janssen, A. (Sturm); Karska, A. (van Dishoeck); Lang, P. (Förster Schreiber); Lippa, M. (Gillessen); Lin, M.-Y. (seit 7.8., Davies); Loose, C. (bis 31.8., Rabien); Lutz, K. (bis 31.12., Saintonge/Tacconi); Miotello, A. (seit 3.6., van Dishoeck); Murillo, N. (seit 9.1., van Dishoeck); Orban di Xivry, G. (Rabien); Plewa, P. (seit 1.8., Fedele, van Dishoeck); Rugel, M. (seit 23.9., Master, van Dishoeck); Sammer, M. (4.3.-31.7., Saintonge); Weber, J. (seit 12.4., Eisenhauer)

### Hochenergie-Astrophysik

Sekretariat: Boller, B.

Team Assistentin: Frankenhuizen, W.

Andritschke, Dr. R.; Becker, Dr. W.; Böhringer, Dr. H.; Boller, Prof. Dr. T.; Bräuninger, Dr. H.; Brightman, Dr. M.; Brunner, Dr. H.; Burkert, Dr. W.; Buron, A.; Burwitz, Dr. V.; Caldolle-Bel, M. (seit 1.10.); Conelly, J. (bis 31.1.); Dennerl, Dr. K.; Diehl, Dr. R.; Dwelly, Dr. T.; Elbs, Dr. J.; Eder, Dipl.-Ing. J.; Emberger, V.; Englert, L.; Eraerds, T.; Freyberg, Dr. M.; Friedrich, Dr. P.; Fürmetz, Dr. M. (seit 1.10.); Gaida, R.; Georgakakis, Dr. A.; Granato, Dr. S.; Greiner, Dr. J.; Gruber, D. (seit 1.11.); Guglielmetti, Dr. F.; Haberl, Dr. F.; Hahn, A. (bis 31.7.); Hartmann, K.; Hartner, Dipl.-Math. G.; Hauser, G.; Kienlin von, Dr. A.; Kann, Dr. A. (seit 1.9.); Meidinger, Dr. N.; Merloni, Dr. A.; Nastasi, A. Dr. (bis 30.11.); Pfeffermann, Dipl.-Phys. E.; Porro, Dr. M.; Predehl, Dr. P.; Rau, Dr. A.; Sanders, Dr. J.; Savaglio, Dr. S.; Schaller, G., (bis 28.2.); Schopper, Dr. F. (bis 28.2.); Schady, Dr. P.; Strong, Dr. A. (bis 31.7.); Sturm, R. Dr.; Walther, S.; Weidenspointner, G.; Winter, Dr. A.; Zhang, Dr. X.-L.; Ziparo, Dr. F. (bis 6.3.)

#### Gäste

Balestra, Dr. I. (seit 1.1.); Bekken, Dr. E. (bis 14.10.); Bouchet, Dr. L. (1.10.-20.12.); Brusa, Dr. M.,R. (22.-24.4. und 14.-23.10.); Bozzetto, L. (24.10.-15.11.); Coke, Dr. J. (19.-23.6.); Faßbender, Dr. R. (seit 1.12.); Fender, Dr. R. (27.2.-1.3.); Fox, D. Dr. (seit 1.9.); Hashimoto, Dr. Y. (23.7.-7.8.); Hickox, Dr. R. (15.-20.12.); Hoekstra, Dr. H. (21./22.6.); Hogg, Dr. D. (25.-27.7.); Kaur, A. (8.-20.12.); Pietsch, Dr. W.; Rapetti, Dr. D. (19.-21.6.); Scaringi, Dr. S. (seit 17.11.); Skinner, Dr. G. (bis 31.12.); Strong, Dr. A. (seit 1.8.); Strüder, Prof. Dr. L. (seit 1.1.); Tennio-Tagle, Dr.

G. (1.-9.9.); Townsend, Dr. L.J. (13.-15.10.); Tsuruta, Prof. Dr. S. (8.-16.7.); van Eerten, Dr. H. (seit 14.8.); Velasco C.A. (9.7.-17.8.); Voges, Dr. W. (seit 1.1.); Weber, Prof. Dr. F. (28.6.-13.7.); Werner, M. (31.7.-30.9.); Zhu, Liu (seit 1.11.)

#### **Doktoranden /Diplomanden / Master**

Alexander, F. (bis 30.4., Diehl); Bähr, A. (Meidinger); Bernhardt, M.G. (Becker); Buchner, Dipl. Ph. J. (Georgakakis); Elliot, Dipl.-Phys., J. (Greiner); Erfanianfar, G. (Finoguenov); Ghaempanah, M. (seit 21.2.); Hofmann, F. (seit 1.3.); Holland, J. (Böhringer); Hsu, L.-T. (Salvato, Nandra); Khachatryan, Dipl.-Phys. G. (Diehl); Knust, F. (seit 1.3., Greiner); Mantovani, G. (Nandra); Maggi, P. (Haberl); Mirkazemi, M. (Nandra); Müller-Seidlitz, J. (seit 1.11., Becker, Meidinger); Prinz, T. (Becker); Siegert, T. (seit 1.7., Diehl); Sudilovsky, Dipl.-Phys. V. (Greiner); Tanga, M. (seit 17.12., Schady, Greiner); Varela, K. (Greiner); Vasilopoulos, G. (Haberl); Weissmann, Dipl. Phys. A. (Böhringer); Yu, H.-F. (Greiner)

#### **Theorie und Komplexe Plasmen**

Sekretariat: Langer, A.

Antonova, Dr. T.; Aschenbrenner, Dr. T. (bis 31.7.); Bunk, Dr. W. (bis 31.7.); Chaudhuri, Dr. M. (bis 30.9.); Ivlev, Dr. A.; Knappek, Dr. C.; Kretschmer, Dr. M.; Li, D. (bis 30.4.); Li, Dr. Y.; Mitic, Dr. S.; Monetti, Dr. R. (bis 31.7.); Nosenko, Dr. T.; Pustyl'nik, Dr. M.; R  th, Dr. C.; Rubin-Zuzic, Dr. M.; Schwabe, Dr. M.; Shimizu, Dr. T.; Shimizu, Dr. S.; Taghizadeh, Dr. L.; Thoma, Dr. M.; Thomas, Dr. H.; Yaroshenko, Dr. V.; Zhdanov, Dr. S.; Zimmermann, Dr. J.

#### **G  ste**

Hartquist, T (15.-18.12.); Khrapak, A. (1.3.-30.4.); Fortov, V. (10.-13.1., 22.-25.7.; 20.-23.12.), Vladimirov, S. (12.-15.2., 24.-26.2., 4.-15.6., 22.-25.7.)

#### **Doktoranden / Diplomanden / Master**

Boxhammer, V. (Zimmermann); Du, Ch. (Thomas); Du, Y. (Y. Li); Fink, Dipl.-Phys. M. (Morfill); Huber, Dipl.-Phys. P. (Morfill); Jeon, J. (Zimmermann); Kl  mpfl, T. (Zimmermann); K  ritzer, J. (Zimmermann); Modest, H. (R  th); R  cker, Dipl.-Phys. T. (Ivlev); W  rner, L. (Thoma)

#### **Optische und Interpretative Astronomie**

Sekretariat: Ingram C.; Niebisch, B.

Beifiori, Dr. A., Bode, Dr. A.; Bodendorf, Dr. C.; Bohnet, A.; Erwin, Dr. P.; Fabricius, Dr. M.; Geis, Dr. N.; Gerhard, Prof. Dr. O.; Grupp, Dr. F.; H  fner, H.; Hopp, Dr. U.; Koppenh  fer, Dr. J.; Katterloher, Dr. R.; Lee, Dr. C-H.; Martinez-Valpuesta Dr. I.(bis 30.6.); Mazzalay, Dr. X.; Mendel, Dr. T.; Montesano, Dr. F.; Muschielok, B.; Neumann, M.; Phleps, Dr. S.; Raison, F.; Saglia, PD Dr. R.; Sanchez, Dr. A.; Senger, Dr. R.; Snigula J.; Steele, Dr. P. (bis 30.6.); Thomas, Dr. J.; Vogel, Dipl.Ing. C.; Wegg, Dr. C.; Weller, Prof. Dr. J.; Weiss I.; Williams, Dr. M. (bis 31.9.); Wilman, Dr. D.

#### **G  ste**

Kormendy, Prof. Dr. J. (1.6.-18.8.); Gieren, Prof. Dr. W. (1.6.-30.9.); Raileneau, R. (3.6.-11.8.); Gebhardt, Prof. Dr. K. (26.7 -16.8.); Houghton, R. (21.-25.1.)

#### **Doktoranden / Diplomanden / Master**

Beck, A. (Bender); Becker, M. (Grupp); Blana, M. (Saglia); Bogner, S. (Grupp); Brucalassi, A. (Saglia); Chan, J. (Saglia); Chatzopolous, S. (Gerhard); Finozzi, F.; (Saglia); Fossati, M. (Wilman); Grieb, J. (Bender); H  user, M. (Hopp); Kulkarni, S.; (Saglia); Longobardi, A. (Gerhard); Opitsch, M. (Saglia); Rosotti, G. (Bender); Rudkee, S. (Grupp/Fabricius); Salazar-Albornoz, S. (Sanchez); Wulstein, P. (Saglia); Zendejas, J. (Saglia)

#### **Forschungsgruppe Burkert**

Burkert, Prof. Dr. A.; Schartmann, Dr. M.

#### **Doktoranden / Diplomanden / Master**

Abbellah, J. ; Alig, C.; Behrendt, M.

#### **Forschungsgruppe Khochfar**

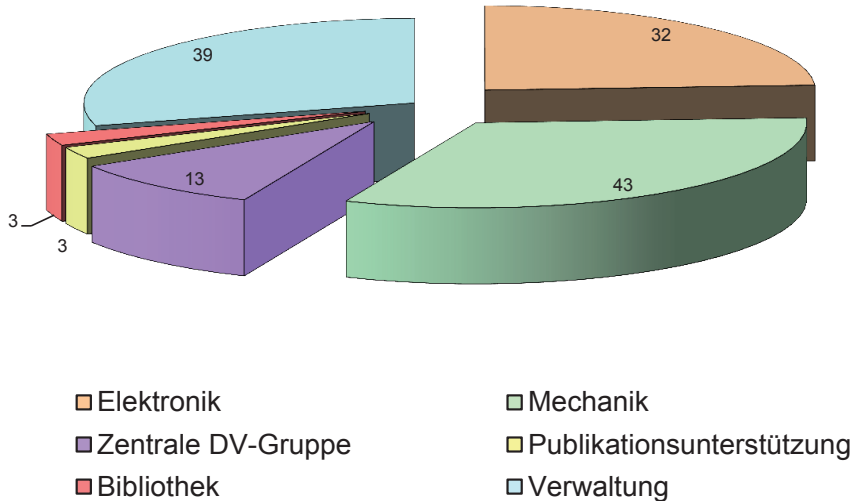
Davis, Dr. A.; Dalla Vecchia, Dr. V. (bis 30.9.); Khochfar, PD Dr. S.; Powell, Dr. L. (bis 30.9.); Neistein, Dr. E. (bis 30.6.); Agarwal, Dr. B.; Paardekooper, Dr. J.-P.

#### **Doktoranden / Diplomanden / Master**

Ballone, A.

## Ingenieurbereich und Werkstätten

Ingenieurbereich, Werkstätten und Zentrale Bereiche



### Elektroniek

Tarantik, Dipl.-Ing. K. (Leitung Elektroniek, bis 30.6.)

Plattner, Dr. M. (Leitung Elektroniek, seit 1.9.)

Albrecht, Dipl.-Ing. S.; Barl, Dipl.-Ing. (FH) L.; Bornemann, Dipl.-Ing. (FH) W.; Burghardt, Dipl.-Ing. (FH) T.; Coutinho, D.; Cibooglu, H.; Emslander, A.; Gaster, A. (bis 28.2.); Gressmann, R.; Hagl, Dipl.-Ing. (FH) T.; Hälker, Dipl.-Ing. (FH) O.; Hans, O., Hengmith, M.; Kellner, Dipl.-Ing. (FH) S.; Kink, Dipl.-Ing. (FH) W.; Krämer, S.; Langer, P.; Mießner, D.; Müller, Dipl.-Ing. (FH) S.; Oberauer, F.; Rau, Dipl.-Ing. (FH) C.; Reiffers, J.; Reiss, P.; Rupprecht, T.; Schneider, M.; Schrey, F.; Tomic, K.; Xu, W.; Yaroshenko, V.; Zanker-Smith, J.; Ziegleder, Dipl.-Ing. (FH) J.

### Mechanik und Testlabor

Schubert, Dr. J. (Leitung Mechanik)

Blasi, T.; Deysenroth, C.; Deysenroth, M.; Dittrich, Dipl.-Ing. (FH) K.; Gemperlein, Dipl.-Phys. H.; Haug, Dipl.-Ing.

(FH) M.; Haußmann, F.; Huber, Dipl.-Ing. H.; Mayr-Ihbe, R.; Mican, Dipl.-Ing. B.; Paßlach, Dipl.-Ing. (FH) S.; Pflüger, Dipl.-Ing. (FH) A.; Pietschner, Dipl.-Ing. (FH) D.; Plangger, M.; Rohe, C.; Schreib, R.; Stemmer, A.; Strecker, R.; Tiedemann, Dipl.-Ing. L.

### Mechanische Werkstatt

Czempel, S. (Leitung Mechanische Werkstatt)

Bayer, R.; Brara, A.; Budau, Cziasto, D. (bis 31.8.); Dietrich, G.; Eibl, J.; Feldmeier, P.; Gahl, J.; Goldbrunner, A.; Hartwig, J.; Honsberg, M.; Huber, D.; Huber, F.-X.; Huber, S.; Kestler, H.-J.; Sandmair, R.; Schneider, A.; Schnell, P.; Schunn, W.; Senftleben, S.; Soller, F.; Straube, P.

### Auszubildende

Greil, M.; Hiefinger, M.; Kratschmann, T.; Leimböck, F.; Lenzewski, S. (seit 1.9.); Liepold, T. (seit 1.9.); Reinold, A.; Schuppe, D.

## Werksstudenten, Praktikanten und Zeithilfen

### Werksstudenten

Becker, M.; Bogner, S.; Gillhuber, M.; Kersch, K.; Liebhardt, J.; Penka, D.; Schamberger, T.

### Praktikanten

#### Schülerpraktikum

Buchelt, C.; Eichhorn, K.; Geigenberger, K., Gemperlein, M.; Heinrigs, M.; Hornig, M.; Hübner, E.; Korwieser, M.; Lausberg, O.; Langer, L.; Lemke, J.S.; Luncke, D.; Mack,

M.; Manzinger, J.; Perzl, L.; Rautenberg, A., Reinold, V.; Riedl, F.; Rowold, M.; Schöley, M.; Schommer, J.; Thomas, V.; Wachendorf, V.; Würsching, G.; Zuncke, D.;

#### Hochschulpraktikum

Ambrosino, W.; Arweiler, D., Penzinger, J.; Zeller, V.

#### Zeithilfen

Ingram, E.; Sedlmeir, G.; Kuffer, L.; Schamberger, T.; Malyssek-Müller, K.

## Zentrale Bereiche

### Datenverarbeitung

#### DV-Ausschuß

Haberl, Dr. F. (Leitung)

Bohnet, Dipl.-Phys. A.; Burwitz, Dr. V (bis 31.1.); Davies, Dr. R. (seit 1.9.); Freyberg, Dr. M. (seit 1.2.); Huber, Dr. P. (seit 1.9.); Lutz, Dr. D. (bis 31.7.); Müller, Dipl.-Ing. (FH) S.; Ott, Dr. T. (Stellvertreter); Rubin-Zuzic, Dr. M.; Sütterlin, R. (bis 30.6.); von Kienlin, Dr. A.

#### Zentrale DV-Gruppe

Haberl, Dr. F. (Leitung)

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

#### Publikationsunterstützung

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

### Bibliothek

Chmielewski, E. (Leitung)

Blank, E.; Hardt, C.

### Verwaltung

Ihle, M. (Leitung VAD)

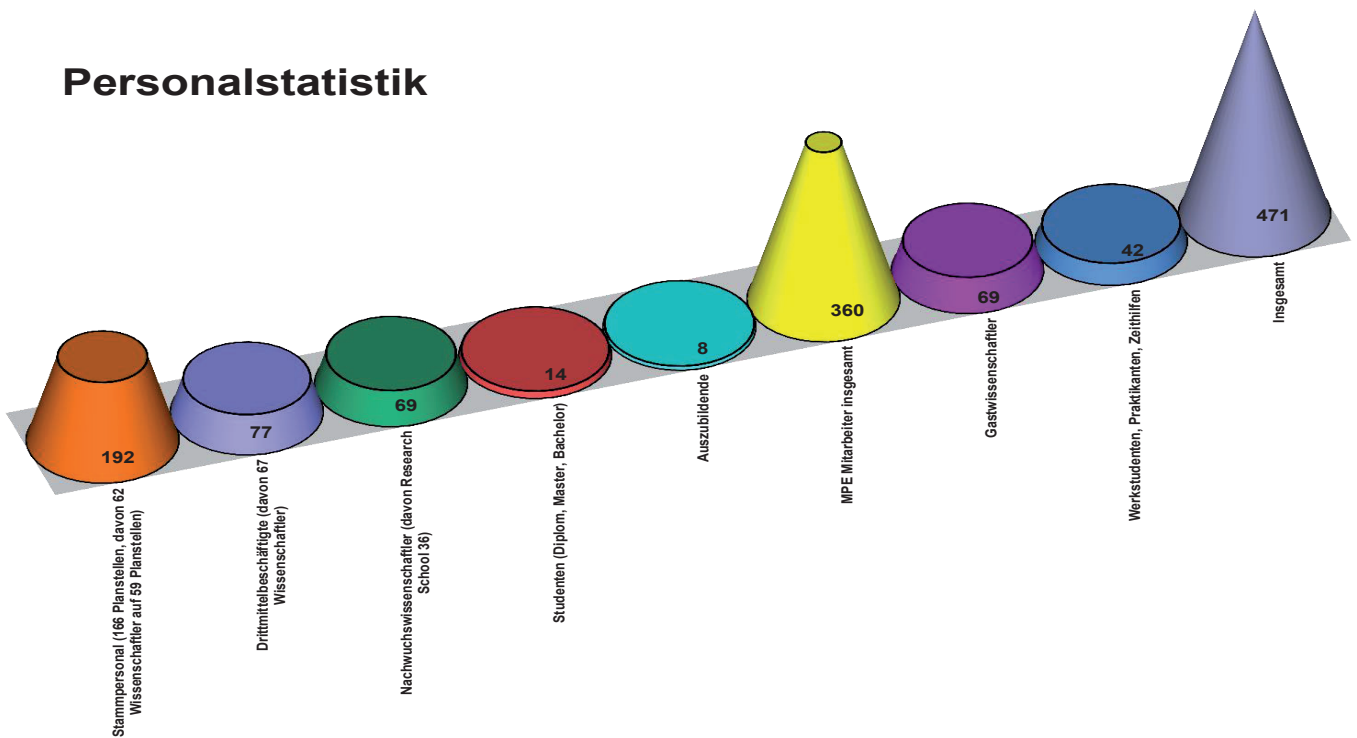
Sekretariat: Kliem, V.

Altinger, C.; Apold, G.; Arturo, A.; Bauernfeind, M; Bauer, T., Bitzer, U.; Cziasto, U.; Doll, E.; Eicher, C.; Ertl, M.; Goldbrunner, S.; Grasemann, M; Grohmann, M.; Gschnell, H.-P.; Hingerl, P.; Inhofer, I.; Jäkel, T.; Jirsch, J.; Karing, W.; Keil, M.; Kestler, L.; Kuhwald, E.; Mayer, L.; Nagy, A.; Neun, A. (BR); Paschou, J., Peischl, M.; Preisler, C.; Reither, A.; Rochner, R.; Rossa, E.; Sandtner, P.; Scheiner, B.; Schwaiger, S.; Steinle, R.; Thuess, L.; Vogt, J.P.

### IMPRS

Schubert, V.

## Personalstatistik

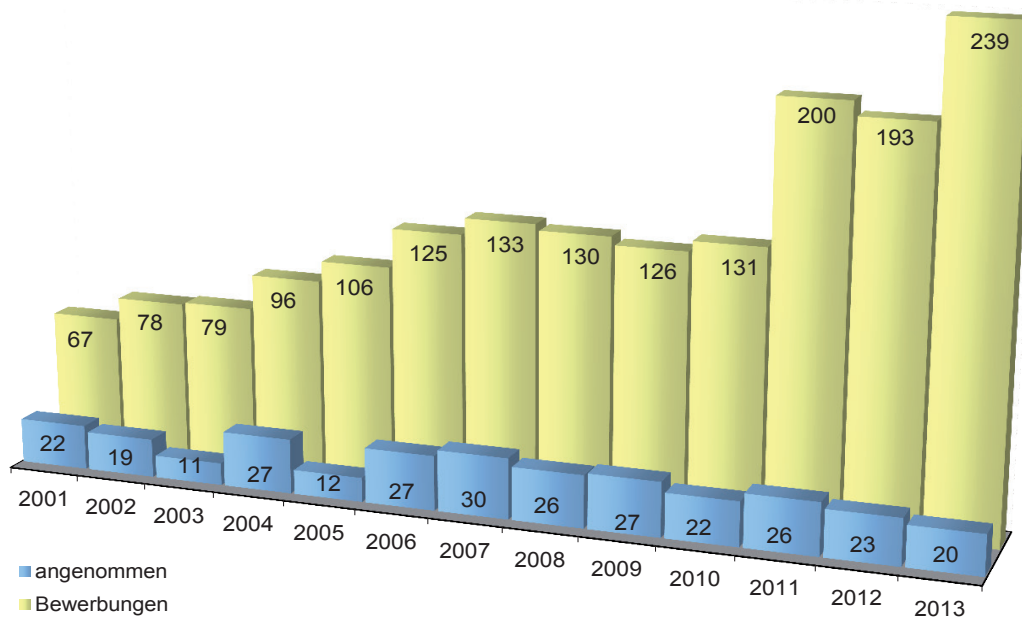


## Internationale Max-Planck Research School (IMPRS) für Astrophysik

Die IMPRS für Astrophysik ist eine Graduiertenschule an der Ludwig-Maximilians-Universität (LMU) München. Sie ist ein gemeinsames Projekt der beiden Max-Planck-Institute MPE und MPA (Max-Planck-Institut für Astrophysik) sowie der Sternwarte der LMU München und der Europä-

ischen Südsternwarte ESO. Im akademischen Jahr 2013 nahmen insgesamt 85 Studenten an dem Programm teil, davon 33 am MPE. Im Jahr 2013 haben sich 239 Studenten für das Studienjahr 2013 beworben, 20 davon wurden angenommen (Stand Mai 2014).

### IMPRS Bewerbungen seit 2001



Jährliche Bewerbungen für das IMPRS Programm in Garching. Seit dem Start haben sich insgesamt 1703 Studenten dafür beworben, 292 davon wurden angenommen.

### Öffentlichkeitsarbeit

Das MPE feierte im Juli 2013 seinen 50. Geburtstag mit einer großen Festveranstaltung. Im Oktober 2013 fand wieder ein Tag der offenen Tür mit etwa 2000 Besuchern statt. Darüberhinaus engagierte sich das MPE 2013 durch folgende Aktivitäten in der Öffentlichkeitsarbeit: 32 populär-wissenschaftliche Vorträge durch Wissenschaftler, 11 Pressemitteilungen über wissenschaftliche Ergebnisse, 16 allgemeine Nachrichten (wissenschaftlich, Preise,

Auszeichnungen), 22 Institutsführungen (meist naturwissenschaftlich orientierte Schulklassen). Am MPE wurden 25 Schüler- (1 - 2 Wochen) und 4 Hochschulpraktikanten (4 - 8 Wochen) betreut. Am Girl's Day im April informierten sich 50 Mädchen über das Institut. Weitere Informationen zur Öffentlichkeitsarbeit sind unter:

<http://www.mpe.mpg.de/2305/public-outreach/> zu finden.



# Projekt-Gruppen

(Projektleiter unterstrichen)

## Infrarot- und Submillimeter-Astronomie

Stellvertreter des Gruppendirektors:  
Lutz, Tacconi.

### ERIS

Eisenhauer, Feuchtgruber, Hartl, Hofmann, Schubert, Sturm, Tarantik.

### GRAVITY

Blind, Burtscher, Eisenhauer, Genzel, Gillessen, Haug, Haußmann, Hofmann, Janssen, Kellner, Lippa, Ott, Pfuhl, Sturm, Wieprecht, Zanker-Smith.

### Herschel-PACS

Berta, Contursi, Doublier Pritchard, de Jong, Feuchtgruber, Kleiser, Krombach, Lutz, T. Müller, Osterhage, Poglitsch, Popesso, Sturm, Vilenius.

### KMOS

Agudo Berbel, Davies, Förster Schreiber, Wiezorrek.

### LBT Argos

Barl, Davies, M. Deysenroth, Gemperlein, Loose, Orban de Xivry, Raab, Rabien, Ziegleder.

### LBT LUCI

Buschkamp, Eibl, Eisenhauer, Gemperlein, Hofmann, Honsberg, Kurk, Lederer, Rabien, Straube.

### MICADO

Davies, Hartl, Kurk, Schubert, E. Sturm.

### SPICA-SAFARI

Barl, Geis, Poglitsch, Raab, Schubert.

### Galaktisches Zentrum

Eisenhauer, Fritz, Genzel, Gillessen, Ott, Pfuhl.

### Galaxienkerne

Burtscher, Contursi, Davies, Genzel, Gracia Carpio, Janssen, Lutz, Orban de Xivry, Sturm, Tacconi.

### Galaxien bei hoher Rotverschiebung

Berta, Buschkamp, Eisenhauer, Förster Schreiber, Genzel, Kurk, Lang, Loose, Lutz, Popesso, Rosario, Saintonge, Sturm, Tacconi, Wisnioski, E. Wuyts, S. Wuyts.

### Sternentstehung

Bruderer, Fedele, Karska, van Dishoeck.

## Hochenergie-Astrophysik

### Athena

Becker, Boller, Burkert, Burwitz, Eder, Freyberg, Friedrich, Haberl, Merloni, Nandra, Predehl, A. Rau, Schaller, Schopper, Strüder, Trümper, Weidenspointner, Winter.

### CAST

Bräuninger, Strüder.

### Chandra

Burwitz, Predehl.

### eROSITA

Andritschke, Bornemann, Bräuninger, Brunner, Burkert, Buron, Burwitz, Dennerl, Eder, Eibl, Freyberg, Friedrich, Fürmetz, Granato, Haberl, Hälker, Hartmann, Hartner, Hengmith, F. Huber, H. Huber, Kienlin von, Kink, Meidinger, Mican, S. Müller, Nandra, Pfeffermann, Pietschner, Predehl, Rohe, Schreib, Schrey, Strüder, Tiedemann, Winter.

### ROSAT

Haberl.

### Swift

Greiner, Rau, Schady.

### XMM-Newton

Boller, Brunner, Dennerl, Freyberg, Haberl, Hartner, Meidinger, Predehl, Strüder, Trümper.

### Fermi

Collmar, Diehl, Greiner, Gruber, v. Kienlin, A. Rau, Steinle, Strong.

### GROND

Elliot, Greiner, Schady, Schrey, Sudilovsky.

### INTEGRAL

Diehl, v. Kienlin, Strong, X.-L. Zhang.

### MXT-SVOM

Meidinger, Strüder.

### OPTIMA

A. Rau, Schrey, Steinle.

### 4MOST

Böhringer, Boller, Dwelly, Merloni.

### Aktive Galaxien

Boller, Brightman, Merloni, Nandra.

### Clusters of Galaxies

Böhringer, Chou, Holland, Nastasi, Verdugo, Weißmann, Ziparo.

Cosmic Rays

Strong.

Gamma-Ray Bursts

Elliot, Greiner, A. Rau, Savaglio, Schady, Sudilovsky.

Kompakte Objekte

Becker, Burwitz, Greiner, Haberl, Nandra, Ponti, A. Rau.

Nahe Galaxien

Freyberg, Haberl, Maggi, R. Sturm, Vasilopoulos.

Nukleare Astrophysik

Alexander, Diehl, v. Kienlin, Siebert.

Virtual Observatories

Voges

### Theorie und Komplexe Plasmen

Adaptive Electrode

Antonova, Chauduri, Du, Huber, Morfill, Steffes, H. Thomas.

GEC-Labor

Chauduri, Du, Morfill, Nosenko, Pustyl'nik, Rubin-Zuzic, H. Thomas, Wörner.

Hochfeld-Labor

Morfill, Tarantik, H. Thomas.

PK-3 Plus

Du, Hagl, Heidemann, P. Huber, Ivlev, Khrapak, Morfill, Rubin-Zuzic, Schwabe, Tarantik, H. Thomas, Zhdanov.

PK-4

Albrecht, Antonova, C. Deysenroth, Fink, Hagl, Kretschmer, Mitic, Morfill, Nosenko, Pustyl'nik, C. Rau, Rubin-Zuzic, Tarantik, Thoma, H. Thomas.

Plasmalab

Chauduri, Du, Hagl, Heidemann, Ivlev, Knappek, Mohr, Morfill, Rubin-Zuzic, H. Thomas, Wörner.

Plasma Medizin

Boxhammer, Bunk, Czempiel, Deckelmann, Jeon, Klämpfl, Köritzer, D. Li, Y. Li, Mitra, Monetti, Morfill, Rosentreter, S. Shimizu, T. Shimizu, Steffes, Taghizadeh, Tarantik, H. Thomas, Yaroshenko, Zimmermann.

Praktikumsversuch "Plasmakristall"

Heidemann, Kretschmer, Morfill, Thoma.

Streifenelektrode

Du, Y. Li, Morfill, Steffes, H. Thomas.

ERC Grant

Avvisati, Ivlev, Morfill, Röcker, Zhdanov.

Nichtlineare Dynamik, Komplexe Systeme

Aschenbrenner, Bauer, Bunk, Modest, Monetti, Müller, Räh, Rosmanith, Sidorenko.

### Optische und Interpretative Astronomie

EUCLID

Bender, Grupp, Saglia.

KMOS

Bender, Saglia.

MICADO

Bender, Saglia, Wilman.

PanSTARRS

Bender, Hopp, Phleps, Saglia, Wilman.

Galaxy Dynamics

Bender, Gerhard, Saglia.

Large Scale Structure

Bender, Fabricius, Phleps, Saglia, Sanchez, Wilman.

Stellare Populationen und Galaxienentstehung

Bender, Hopp, Saglia.

## Lehrveranstaltungen / Seminare

### IMPRS für Astrophysik (2013), Garching

Boller

IMPRS Advanced Course: AGN Physics (WS 12/13)

### LMU München

Becker

Advances in Astronomy (WS 12/13)

Doktorandenseminar über Aktuelle Themen aus der Astrophysik (WS 12/13, SS 13, WS 13/14)

Bender

Astronomisches Kolloquium (WS 12/13, SS 13, WS 13/14)

Astrophysikalisches Grundpraktikum (WS 12/13, SS 13, WS 13/14)

Forschungsprojekt Masterarbeit, Anleitung zum wissenschaftlichen Arbeiten (WS 12/13, SS 13, WS 13/14)

Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert, "Tools in modern astrophysics" (WS12/13, SS 13, WS 13/14)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar II theoretisch und numerisch orientiert (WS 12/13, SS 13, WS 13/14)

Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert, "Tools in modern astrophysics" (WS 12/13, SS 13, WS 13/14)

Begleitendes Kolloquium zum Astrophysikalisches Hauptseminar II experimentell und beobachtungsorientiert (WS 12/13, SS 13, WS 13/14)

Galaxies, Vorlesung (WS 12/13, SS 13, WS 13/14)

Ergänzung zur Vorlesung "Galaxies" (WS 12/13, SS 13, WS 13/14)

Projektseminar mit begleitendem Kolloquium "Extragalactic group seminar" (SS 13)

Projektseminar mit begleitenden Kolloquium "Gravitational lensing" (WS 12/13, SS 13)

Projektseminar mit begleitenden Kolloquium "Galaxies" (WS 12/13, SS 13, WS 13/14)

Projektseminar mit begleitenden Kolloquium aus dem Bereich experimenteller Arbeiten und Instrumentenentwicklung in der Astronomie (WS 12/13, SS 13, WS 13/14)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich der Kosmologie, Anleitung zum Wissenschaftlichen Arbeiten (WS 12/13, SS13, WS 13/14)

Projektseminar mit begleitenden Kolloquium, vorbereitendes Kolloquium zur Masterarbeit mit Tutorium, Kolloquium und Tutorium aus dem Bereich experimenteller Arbeiten, Anleitung zum wissenschaftlichen Arbeiten (WS12/13, SS 13, WS 13/14)

Grundlagen der fortgeschrittenen Astrophysik (Essential of Advanced Astrophysics), mit Saglia (WS 13/14)

Ergänzung zur Vorlesung "Grundlagen der fortgeschrittenen Astrophysik" (WS 13/14)

Gillessen

Astrophysical seminar (WS 12/13)

Raeth

Complex Systems and Fundamentals of Nonlinear Data Analysis (WS 12/13, WS 13/14)

### Technische Universität München

Eisenhauer

Einführung in die Astrophysik (WS 12/13, WS 13/14)

High Angular Resolution Astronomy: Telescopes, Adaptive Optics, Interferometry, and more (SS 13)

### Goethe-Universität Frankfurt

Boller, Th.

Vertiefung zur Vorlesung Einführung in die Astrophysik (SS 2013)

### Universität Giessen

Thoma

Physik in der Schwerelosigkeit (WS 12/13)

### University of Bologna

Merloni

Formation And Cosmic Evolution Of Massive Black Holes (PhD School, SS 13)

### University of Tokyo

Diehl

Lecture Series on "Nuclear Astrophysics" (WS 13)

### Lehrerakademie Dillingen

Müller, T.

Astronomie, Sonnensystem und Kleinkörper (SS 13)

## Organisation von wissenschaftlichen Seminaren / Konferenzen

Water in Star-forming Regions with Herschel, Kreuth (Ringberg castle), Germany, 16.-19.1.2013, Organisation: E.F. van Dishoeck.

Marseille Cosmology Conference -- Physical Processes of Galaxy Formation: Consensus and Challenges, Aix-en-Provence, France, 22.-26.7.2013, Organisation: A. Cattaneo, L. Tresse, M. Treyer, A. Blanchard, N. Bouché, F. Combes, N.M. Förster Schreiber, O. Lahav, R.C. Kennicutt, J. Kormendy, J. Peebles, A. Shapley, J. Silk, M. Steinmetz.

Dissecting Galaxies with 2D Wide-field Spectroscopy, Lijiang, China, 25.-29.3.2013, Organisation: L.C. Ho, R.C. Kennicutt, L. Hao, M.A. Bershad, S. Croom, E. Emselfem, N.M. Förster Schreiber, K. Gebhardt, C.L. Martin, S.F. Sánchez, R. Somerville, C. Tremonti.

MPA/MPE Workshop on Galaxy Evolution from high to low Redshift, Garching, Germany, 13.3.2013, Organisation: N.M. Förster Schreiber, T. Naab.

Galactic Winds Near and Far, Tegernsee, Germany, 2.-8.6.2013, Organisation: R. Davies, E. Sturm, R. Genzel, L. Tacconi, N. Förster Schreiber, D. Lutz, T. Heckman, R. Maiolino, N. Murray, A. Shapley, S. Veilleux.

Adaptive Optics for Extremely Large Telescopes 3, Florence, Italy, 26.-31.5.2013, Organisation: S. Esposito, Y. Clenet, T. Fusco, N. Hubin, J.-P. Veran, R. Davies, et al.

The Universe Explored by Herschel, Noordwijk, 15.-18.10.2013, Organisation: P. Barthel, J. Cernicharo, P. Encrenaz, J. Fischer, M. Griffin, P. Harvey, M. Harwit, F. Helmich, L. Metcalf, T. Phillips, G. Pilbratt, A. Poglitsch, L. Vigroux, C. Waelkens.

Black Hole (g)Astronomy - Exploring the different flavours of Accretion, Brindisi, Italy, 2.-6.9.2013, Organisation: F. Panessa, R. Goosman, A. Merloni.

eROSITA Consortium Meeting, Garching, Germany, 14.-16.10.2013, Organisation: P. Predehl, A. Merloni.

Seeking the Leading Actor on the Cosmic Stage: Galaxies vs Black Holes, Castellammare del Golfo, Sicily, Italy, 24.-28.6.2013, Organisation: A. Bongiorno, F. Fiore, N.Z. Scoville, R. Maiolino, M. Elvis, G. Fabbiano, L.J. Tacconi.

Herschel Calibration Workshop: Only the best data products for the Legacy Archive, ESA/ESAC, Madrid, Spain, 25.-27.3.2013, Organisation: A. Marston, T. Lim, B. Schulz, T. Müller, J. Blommaert, M. Nielbock, M. Olberg, M. Harwit, R. Moreno, M. Sanchez-Portal, B. Merin.

European Planetary Science: KBOs and Centaurs, latest results from space and groundbased telescopes Congress, London, United Kingdom, 8.-13.9.2013, Organisation: T. Müller, P. Santos-Sanz.

The Legacy of the Herschel Space Observatory, Tübingen, Germany, 24.-27.9.2013, Organisation: M. Nielbock, J. Eislöffel, R. Güsten, P. Hartogh, T. Henning, T. Müller, V. Ossenkopf, P. Schilke.

Heraeus Physikschule "Physik im Weltraum", Bad Honnef, Germany, 9.-13.9.2013, Organisation: P. Klar, M.H. Thoma.

Physical Processes in the Interstellar Medium, Garching (MPE), Germany, 21.-25.10.2013, Organisation: M. Schartmann, A. Burkert, A. Ballone, M. Behrendt, K. Fierlinger, F. Aharonian, B. Elmegreen, Th. Henning, S. Inutsuka, C. Jäger, R. Klessen, M. Krumholz, M. Mac Low, C. McKee, K. Menten, E. Ostriker, S. Wolf, E. Zweibel.

Energising the Interstellar Medium, Tübingen, 24.9.2013, Organisation: M. Krause, M. Schartmann.

Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth (Ringberg Castle), Germany, 18.-22.3.2013, Organisation: M. Schartmann, A. Burkert, Ch. Alig, A. Ballone, M. Behrendt, K. Fierlinger, M. Keppler, N. Konrad, M. Krause, P. Plewa, M. Begelman, M. Elitzur, S. Gillessen, A. Loeb, A. Merloni, R. Murray-Clay, R. Sunyaev, J. Thomas.

Magnetosphere, Ionosphere and Thermosphere Forum, ISSI-BJ, Beijing, China, 30.10.-1.11.13, Organisation: Ch.Wang, B. Klecker, Y. Liu, A. Yau.

# Publikationen

Hier präsentieren wir eine tabularische und graphische Zusammenfassung unserer Veröffentlichungen aus 2013. Die Veröffentlichungen werden nach wissenschaftlicher

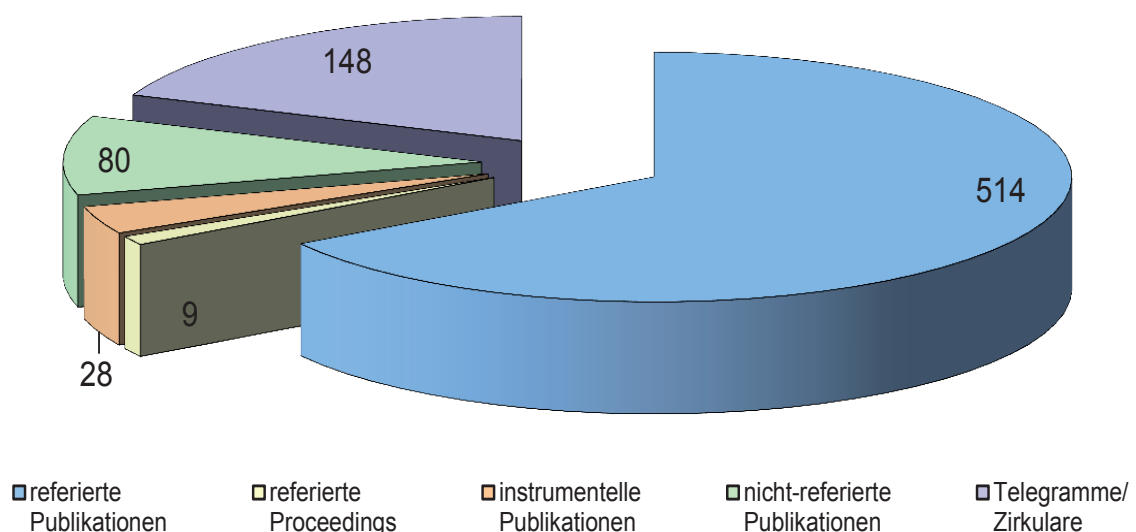
Arbeitsgruppe und Publikationstyp gezählt. Die Gesamtliste unserer Publikationen aus den verschiedenen Kategorien ist nachfolgend aufgeführt.

## Summe der MPE Publikationen in 2013

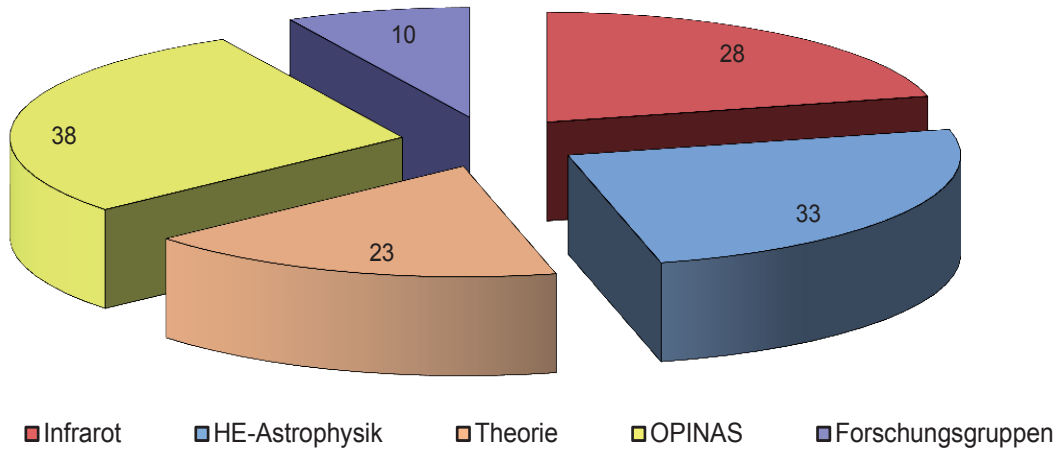
Wissenschaftl. Arbeitsgruppe	referierte Publikationen	referierte Proceedings	Instrument. Publikationen	nicht-referierte Publikationen	Telegramme/ Zirkulare	Vorträge	Poster
IR	28 (169)	1 (3)	0 (1)	4 (13)	2 (8)	86 (138)	12
HE Astrophysik	33 (166)	2 (2)	10 (22)	16 (42)	68 (138)	65 (111)	7
Theorie	23 (39)	0 (0)	0 (0)	0 (0)	0 (0)	10 (15)	2
OPINAS	38 (114)	1 (3)	5 (5)	7 (16)	0 (2)	33 (38)	1
Forschungsgruppen	10 (26)	1 (1)	0 (0)	2 (9)	0 (0)	2 (2)	1
Insgesamt	132 (514)	5 (9)	15 (28)	29 (80)	70 (148)	196 (304)	23

Die Zahlen geben die Anzahl der Publikationen mit einem Erstautor vom MPE beziehungsweise die Anzahl der eingeladenen (bei Konferenzen und zu Kolloquien) Vorträge an. Die roten Zahlen in Klammern zeigen die Gesamtzahl der Veröffentlichungen mit MPE-Autorenschaft (inklusive MPE Erstautoren) beziehungsweise die Gesamtzahl der gehaltenen Vorträge. Veröffentlichungen mit Beteiligung aus mehreren Arbeitsgruppen sind bei der Gruppe des führenden Autors gezählt. Bei Postern wurden nur MPE Erstautorenschaften berücksichtigt.

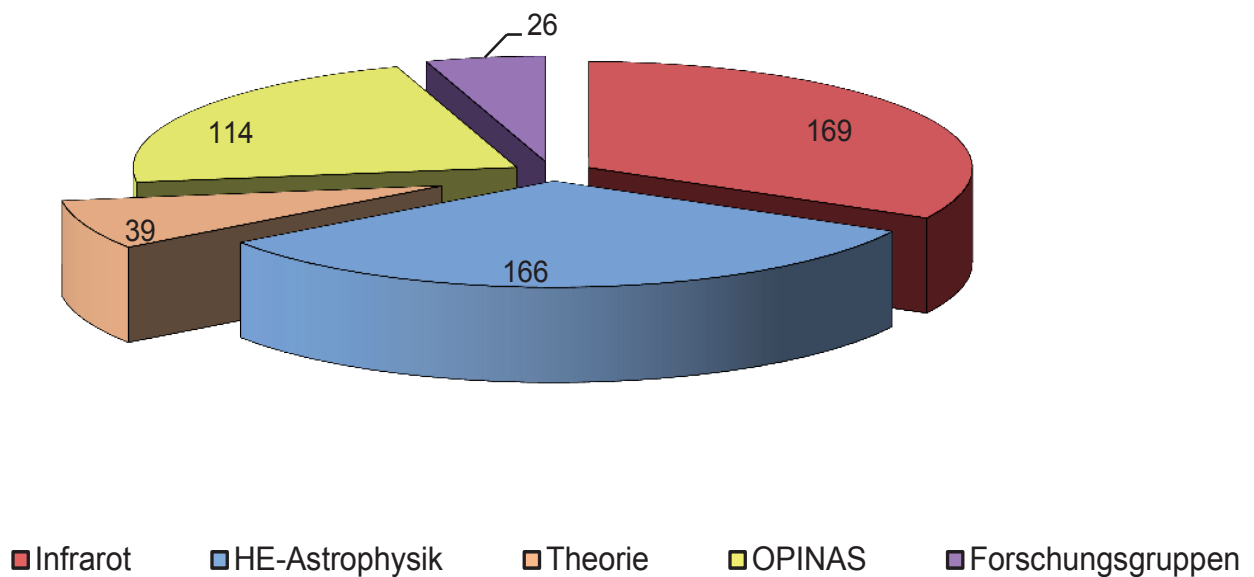
## MPE Publikationen 2013 (nach Typ)



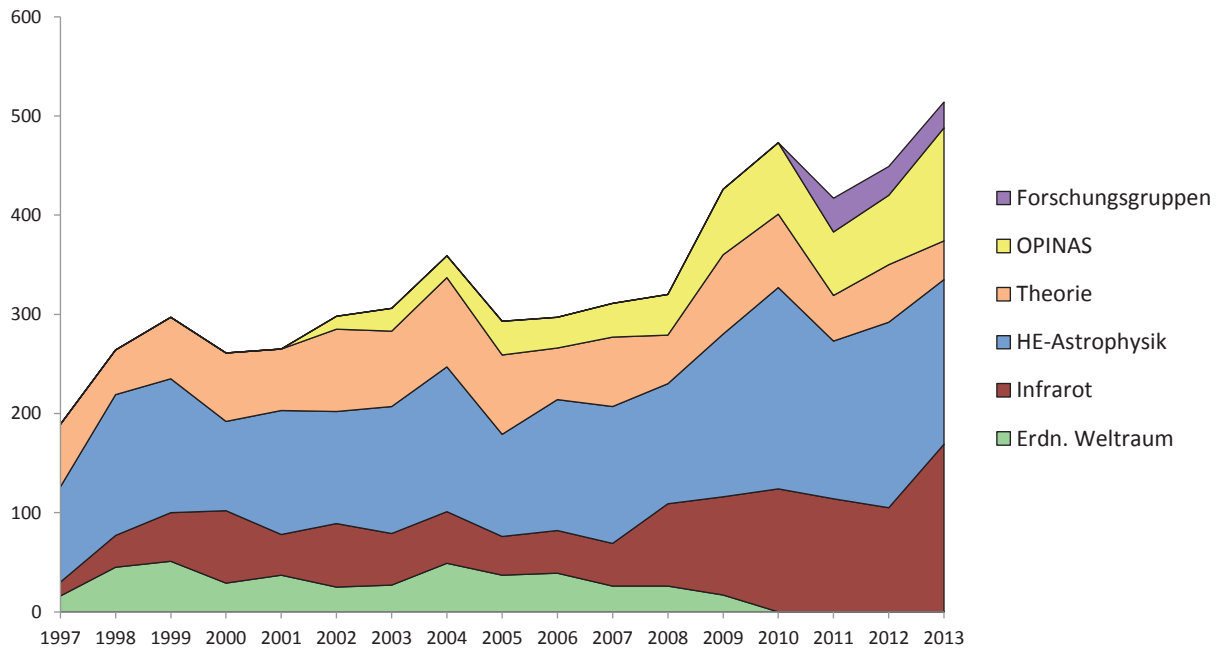
### Referierte Publikationen mit MPE Erstautor in 2013 (nach wissenschaftlicher Arbeitsgruppe)



### Gesamtzahl der referierten MPE Publikationen in 2013 (nach wissenschaftlicher Arbeitsgruppe)



**Zeitliche Entwicklung der Gesamtzahl der referierten Publikationen  
(nach wissenschaftlicher Arbeitsgruppe)**



## Referierte Publikationen

- Abdo, A.A., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: The Second Fermi Large Area Telescope Catalog of Gamma-Ray Pulsars. *Ap. J. Supp. Ser.* 208, 17 (2013).
- Aceituno, J., S.F. Sánchez, F. Grupp, J. Lillo, M. Hernán-Obispo, D. Benitez, L.M. Montoya, U. Thiele, S. Pedraz, D. Barrado, S. Dreizler and J. Bean: CAFE: Calar Alto Fiber-fed Échelle spectrograph. *Astron. Astrophys.* 552, A31 (2013).
- Ackermann, M., M. Ajello, A. Allafort, ..., A. von Kienlin, et al.: Determination of the Point-spread Function for the Fermi Large Area Telescope from On-orbit Data and Limits on Pair Halos of Active Galactic Nuclei. *Ap. J.* 765, 54 (2013).
- Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: Detection of the Characteristic Pion-Decay Signature in Supernova Remnants. *Science* 339, 807-811 (2013).
- Ackermann, M., M. Ajello, A. Allafort, ..., A.W. Strong, et al.: The First Fermi-LAT Catalog of Sources above 10 GeV. *Ap. J. Supp. Ser.* 209, 34 (2013).
- Ackermann, M., M. Ajello, K. Asano, ..., J. Greiner, ..., D. Gruber, ..., A. von Kienlin, et al.: Multiwavelength Observations of GRB 110731A: GeV Emission from Onset to Afterglow. *Ap. J.* 763, 71 (2013).
- Ackermann, M., M. Ajello, K. Asano, ..., D. Gruber, A. von Kienlin, et al.: The First Fermi-LAT Gamma-Ray Burst Catalog. *Ap. J. Supp. Ser.* 209, 11 (2013).
- Agarwal, B., A.J. Davis, S. Khochfar, P. Natarajan and J.S. Dunlop: Unravelling obese black holes in the first galaxies. *Mon. Not. R. Astron. Soc.* 432, 3438-3444 (2013).
- Aguirre, P., A.J. Baker, F. Menanteau, D. Lutz and L.J. Tacconi: High-resolution Near-infrared Imaging of Submillimeter Galaxies. *Ap. J.* 768, 164 (2013).
- Alig, C., M. Schartmann, A. Burkert and K. Dolag: Numerical Simulations of the Possible Origin of the Two Sub-parsec Scale and Counterrotating Stellar Disks around Sgr A\*. *Ap. J.* 771, 119 (2013).
- Allafort, A., L. Baldini, J. Ballet, ..., A.W. Strong, et al.: PSR J2021+4026 in the Gamma Cygni Region: The First Variable  $\gamma$ -Ray Pulsar Seen by the Fermi LAT. *Ap. J. Lett.* 777, L2 (2013).
- Altay, G., T. Theuns, J. Schaye, C.M. Booth and C. Dalla Vecchia: The impact of different physical processes on the statistics of Lyman-limit and damped Lyman  $\alpha$  absorbers. *Mon. Not. R. Astron. Soc.* 436, 2689-2707 (2013).
- Antoci, V., G. Handler, F. Grundahl, E.J. Brugamyer, P. Robertson, H. Kjeldsen, Y. Kok, M. Ireland and J.M. Matthews: Searching for solar-like oscillations in the  $\delta$  Scuti star  $\rho$  Puppis. *Mon. Not. R. Astron. Soc.* 435, 1563-1575 (2013).
- Appleby, S.A., E.V. Linder and J. Weller: Cluster probes of dark energy clustering. *Physical Review D* 88, 043526 (2013).
- Appleton, P.N., P. Guillard, F. Boulanger, M.E. Cluver, P. Ogle, E. Falgarone, G. Pineaudes Forêts, E. O'Sullivan, P.-A. Duc, S. Gallagher, Y. Gao, T. Jarrett, I. Konstantopoulos, U. Lisenfeld, S. Lord, N. Lu, B.W. Peterson, C. Struck, E. Sturm, R. Tufts, I. Valchanov, P. van der Werf and K.C. Xu: Shock-enhanced C+ Emission and the Detection of H<sub>2</sub>O from the Stephan's Quintet Group-wide Shock Using Herschel. *Ap. J.* 777, 66 (2013).
- Arasa, C., M.C. van Hemert, E.F. van Dishoeck and G.J. Kroes: Molecular Dynamics Simulations of CO<sub>2</sub> Formation in Interstellar Ices. *Journal of Physical Chemistry A* 117, 7064-7074 (2013).
- Arndt, S., E. Wacker, Y.-F. Li, T. Shimizu, H.M. Thomas, G.E. Morfill, S. Karrer, J.L. Zimmermann, and A.-K. Bosserhoff: Cold atmospheric plasma, a new strategy to induce senescence in melanoma cells. *Experimental Dermatology*, 22(10), 284-289 (2013).
- Arndt, S., P. Unger, E. Wacker, T. Shimizu, J. Heinlin, Y.-F. Li, H.M. Thomas, G.E. Morfill, J.L. Zimmermann, A.-K. Bosserhoff, and S. Karrer: Cold Atmospheric Plasma (CAP) changes gene expression of key molecules of the wound healing machinery and improves wound healing in vitro and in vivo. *PLoS One*, 8(11): e79325, pp. 1-9 (2013).
- Arnouts, S., E. Le Floc'h, J. Chevillard, B.D. Johnson, O. Ilbert, M. Treyer, H. Aussel, P. Capak, D.B. Sanders, N. Scoville, H.J. McCracken, B. Milliard, L. Pozzetti and M. Salvato: Encoding of the infrared excess in the NUVrK color diagram for star-forming galaxies. *Astron. Astrophys.* 558, A67 (2013).
- Aschenbrenner, T., R. Monetti, J.M. Amigó and W. Bunk: Quantitative characterisation of audio data by ordinal symbolic dynamics. *European Physical Journal Special Topics* 222, 473-485 (2013).
- Ashby, M.L.N., S.P. Willner, G.G. Fazio, ..., S. Wuyts, et al.: SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts. *Ap. J.* 769, 80 (2013).
- Bañados, E., B. Venemans, F. Walter, J. Kurk, R. Overzier and M. Ouchi: The Galaxy Environment of a QSO at  $z \sim 5.7$ . *Ap. J.* 773, 178 (2013).
- Balestra, I., E. Vanzella, P. Rosati, A. Monna, C. Grillo, M. Nonino, A. Mercurio, A. Biviano, L. Bradley, D. Coe, A. Fritz, M. Postman, S. Seitz, M. Scodeggio, P. Tozzi, W. Zheng, B. Ziegler, A. Zitrin, M. Annunziatella, M. Bartelmann, N. Benitez, T. Broadhurst, R. Bouwens, O. Czoske, M. Donahue, H. Ford, M. Girardi, L. Infante, S. Jouvel, D. Kelson, A. Koekemoer, U. Kuchner, D. Lemze, M. Lombardi, C. Maier, E. Medezinski, P. Melchior, M. Meneghetti, J. Merten, A. Molino, L. Moustakas, V. Presotto, R. Smit and K. Umetsu: CLASH-VLT: spectroscopic confirmation of a  $z = 6.11$  quintuply lensed galaxy in the Frontier Fields cluster RXC J2248.7-4431. *Astron. Astrophys.* 559, L9 (2013).
- Ballone, A., M. Schartmann, A. Burkert, S. Gillessen, R. Genzel, T.K. Fritz, F. Eisenhauer, O. Pfuhl and T. Ott: Hy-



- drodynamical Simulations of a Compact Source Scenario for the Galactic Center Cloud G2. *Ap. J.* 776, 13 (2013).
- Bañados, E., B. Venemans, F. Walter, J. Kurk, R. Overzier and Ouchi, M. (2013). The galaxy environment of a QSO at  $z \sim 5.7$ . *The Astrophysical Journal*, 773(2): 178, pp. 1-9 (2013).
- Bandara, K., D. Crampton, C. Peng and L. Simard: Witnessing the Differential Evolution of Disk Galaxies in Luminosity and Size via Gravitational Lensing. *Ap. J.* 777, 1 (2013).
- Banerji, M., K. Glazebrook, C. Blake, S. Brough, M. Colless, C. Contreras, W. Couch, D.J. Croton, S. Croom, T.M. Davis, M.J. Drinkwater, K. Forster, D. Gilbank, M. Gladsters, B. Jelliffe, R.J. Jurek, I.-h. Li, B. Madore, D.C. Martin, K. Pimbblet, G.B. Poole, M. Pracy, R. Sharp, E. Wisnioski, D. Woods, T.K. Wyder and H.K.C. Yee: The stellar masses of  $\sim 40\,000$  UV selected Galaxies from the WiggleZ survey at  $0.3 < z < 1.0$ : analogues of Lyman break galaxies?. *Mon. Not. R. Astron. Soc.* 431, 2209-2229 (2013).
- Barends, T.R., L. Foucar, R.L. Shoeman, S. Bari, S.W. Epp, R. Hartmann, G. Hauser, M. Huth, C. Kieser, L. Lomb, K. Motomura, K. Nagaya, C. Schmidt, R. Strecker, D. Anielski, R. Boll, B. Erk, H. Fukuzawa, E. Hartmann, T. Hatsui, P. Holl, Y. Inubushi, T. Ishikawa, S. Kassemeyer, C. Kaiser, F. Koeck, N. Kunishima, M. Kurka, D. Rolles, B. Rudek, A. Rudenko, T. Sato, C.D. Schroeter, H. Soltau, L. Strüder, T. Tanaka, T. Togashi, K. Tono, J. Ullrich, S. Yase, S.I. Wada, M. Yao, M. Yabashi, K. Ueda, and I. Schlichting: Anomalous signal from S atoms in protein crystallographic data from an X-ray free-electron laser. *Acta Crystallogr D Biol Crystallogr.* 69(Pt 5), 838-842 (2013).
- Barreira, A., B. Li, A. Sanchez, C.M. Baugh and S. Pascoli: Parameter space in Galileon gravity models. *Physical Review D*, 87(10): 103511, pp. 1-21 (2013).
- Barro, G., S.M. Faber, P.G. Pérez-González, D.C. Koo, C.C. Williams, D.D. Kocevski, J.R. Trump, M. Mozena, E. McGrath, A. van der Wel, S. Wuyts, E.F. Bell, D.J. Croton, D. Ceverino, A. Dekel, M.L.N. Ashby, E. Cheung, H.C. Ferguson, A. Fontana, J. Fang, M. Giavalisco, N.A. Groggin, Y. Guo, N.P. Hathi, P.F. Hopkins, K.-H. Huang, A.M. Koekemoer, J.S. Kartaltepe, K.-S. Lee, J.A. Newman, L.A. Porter, J.R. Primack, R.E. Ryan, D. Rosario, R.S. Somerville, M. Salvato and L.-T. Hsu: CANDELS: The Progenitors of Compact Quiescent Galaxies at  $z \sim 2$ . *Ap. J.* 765, 104 (2013).
- Barth, K., A. Belov, B. Beltran, H. Bräuninger, et al.: CAST constraints on the axion-electron coupling. *J. of Cosmology and Astroparticle Phys.* 5, 10 (2013).
- Bast, J.E., F. Lahuis, E.F. van Dishoeck and A.G.G.M. Tielens: Exploring organic chemistry in planet-forming zones. *Astron. Astrophys.* 551, A118 (2013).
- Baum, T., M. Kutscher, D. Müller, C. Rähth, F. Eckstein, E.-M. Lochmüller, E.J. Rummeny, T.M. Link and J.S. Bauer: Cortical and trabecular bone structure analysis at the distal radius—prediction of biomechanical strength by DXA and MRI. *Journal of Bone and Mineral Metabolism*, 31(2), 212-221 (2013).
- Baumgartner, W.H., J. Tueller, C.B. Markwardt, G.K. Skinner, S. Barthelmy, R.F. Mushotzky, P.A. Evans and N. Gehrels: The 70 Month Swift-BAT All-sky Hard X-Ray Survey. *Ap. J. Supp. Ser.* 207, 19 (2013).
- Bayet, E., M. Bureau, T.A. Davis, L.M. Young, A.F. Crocker, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra and A.-M. Weijmans: The ATLAS<sup>3D</sup> project - XVI. Physical parameters and spectral line energy distributions of the molecular gas in gas-rich early-type galaxies. *Mon. Not. R. Astron. Soc.* 432, 1742-1767 (2013).
- Beck, A.M., M. Hanasz, H. Lesch, R.-S. Remus and F.A. Staszczyn: On the magnetic fields in voids. *Mon. Not. R. Astron. Soc. Letters*, 429(1), L60-L64 (2013).
- Beck, A.M., K. Dolag, H. Lesch and P.P. Kronberg: Strong magnetic fields and large rotation measures in protogalaxies from supernova seeding. *Mon. Not. R. Astron. Soc.*, 435(4), 3575-3586 (2013).
- Benhabiles-Mezhoud, H., J. Kiener, V. Tatischeff and A.W. Strong: De-excitation Nuclear Gamma-Ray Line Emission from Low-energy Cosmic Rays in the Inner Galaxy. *Ap. J.* 763, 98 (2013).
- Benli, O., Ş. Çalışkan, Ü. Ertan, M.A. Alpar, J.E. Trümper and N.D. Kylafis: X-Ray Enhancement and Long-term Evolution of Swift J1822.3-1606. *Ap. J.* 778, 119 (2013).
- Benson, B.A., T. de Haan, J.P. Dudley, ..., J.J. Mohr, et al.: Cosmological Constraints from Sunyaev-Zel'dovich-selected Clusters with X-Ray Observations in the First 178 deg<sup>2</sup> of the South Pole Telescope Survey. *Ap. J.* 763, 147 (2013).
- Benz, A.O., S. Bruderer, E.F. van Dishoeck, P. Stäuber and S.F. Wampfler: Neutral and Ionized Hydrides in Star-Forming Regions. Observations with Herschel/HIFI. *Journal of Physical Chemistry A* 117, 9840-9847 (2013).
- Bergin, E.A., L.I. Cleeves, U. Gorti, K. Zhang, G.A. Blake, J.D. Green, S.M. Andrews, N.J. Evans II, T. Henning, K. Öberg, K. Pontoppidan, C. Qi, C. Salyk and E.F. van Dishoeck: An old disk still capable of forming a planetary system. *Nature* 493, 644-646 (2013).
- Berta, S., D. Lutz, P. Santini, S. Wuyts, D. Rosario, D. Brisbin, A. Cooray, A. Franceschini, C. Gruppioni, E. Hatziminaoglou, H.S. Hwang, E. Le Floc'h, B. Magnelli, R. Nordon, S. Oliver, M.J. Page, P. Popesso, L. Pozzetti, F. Pozzi, L. Riguccini, G. Rodighiero, I. Roseboom, D. Scott, M. Symeonidis, I. Valtchanov, M. Viero and L. Wang: Panchromatic spectral energy distributions of Herschel sources \* \* \*. *Astron. Astrophys.* 551, A100 (2013).
- Berta, S., D. Lutz, R. Nordon, R. Genzel, B. Magnelli, P. Popesso, D. Rosario, A. Saintonge, S. Wuyts and L.J. Tacconi: Molecular gas mass functions of normal star-forming galaxies since  $z \sim 3$ . *Astron. Astrophys.* 555, L8 (2013).
- Biffi, V., K. Dolag and H. Böhringer: Investigating the velocity structure and X-ray observable properties of simulated galaxy clusters with PHOX. *Mon. Not. R. Astron. Soc.* 428, 1395-1409 (2013).
- Biffi, V., K. Dolag and H. Böhringer: Observing simulated

- galaxy clusters: The prospects of ICM velocity diagnostics. *Astron. Nachr.* 334, 317 (2013).
- Billier, B.A., I.J.M. Crossfield, L. Mancini, S. Ciceri, J. Southworth, T.G. Kopytova, M. Bonnefoy, N.R. Deacon, J.E. Schlieder, E. Buenzli, W. Brandner, F. Allard, D. Homeier, B. Freytag, C.A.L. Bailer-Jones, J. Greiner, T. Henning and B. Goldman: Weather on the Nearest Brown Dwarfs: Resolved Simultaneous Multi-wavelength Variability Monitoring of WISE J104915.57-531906.1AB. *Ap. J. Lett.* 778, L10 (2013).
- Biviano, A., P. Rosati, I. Balestra, ..., S. Seitz, et al.: CLASH-VLT: The mass, velocity-anisotropy, and pseudo-phase-space density profiles of the  $z = 0.44$  galaxy cluster MACS J1206.2-0847. *Astron. Astrophys.* 558, A1 (2013).
- Blanc, G.A., A. Schrubba, N.J. Evans II, S. Jogee, A. Bolatto, A.K. Leroy, M. Song, R.C.E. van den Bosch, N. Drory, M. Fabricius, D. Fisher, K. Gebhardt, A. Heiderman, I. Marinova, S. Vogel and T. Weinzirl: The VIRUS-P Exploration of Nearby Galaxies (VENGA): The XCO Gradient in NGC 628. *Ap. J.* 764, 117 (2013).
- Blanc, G.A., T. Weinzirl, M. Song, A. Heiderman, K. Gebhardt, S. Jogee, N.J. Evans II, R.C.E. van den Bosch, R. Luo, N. Drory, M. Fabricius, D. Fisher, L. Hao, K. Kaplan, I. Marinova, N. Vutisalchavakul and P. Yoachim: The VIRUS-P Exploration of Nearby Galaxies (VENGA): Survey Design, Data Processing, and Spectral Analysis Methods. *Astron. J.* 145, 138 (2013).
- Boissier, S., R. Salvaterra, E. Le Floch, S. Basa, V. Buat, N. Prantzos, S.D. Vergani and S. Savaglio: A method for quantifying the gamma-ray burst bias. Application in the redshift range of 0-1.1. *Astron. Astrophys.* 557, A34 (2013).
- Boogert, A.C.A., J.E. Chiar, C. Knez, K.I. Öberg, L.G. Mundy, Y.J. Pendleton, A.G.G.M. Tielens and E.F. van Dishoeck: Infrared Spectroscopic Survey of the Quiescent Medium of Nearby Clouds. I. Ice Formation and Grain Growth in Lupus. *Ap. J.* 777, 73 (2013).
- Boone, F., B. Clément, J. Richard, D. Schaerer, D. Lutz, A. Weiß, M. Zemcov, E. Egami, T.D. Rawle, G.L. Walth, J.-P. Kneib, F. Combes, I. Smail, A.M. Swinbank, B. Altieri, A.W. Blain, S. Chapman, M. Dessauges-Zavadsky, R.J. Ivison, K.K. Knudsen, A. Omont, R. Pelló, P.G. Pérez-González, I. Valtchanov, P. van der Werf and M. Zamojski: An extended Herschel drop-out source in the center of AS1063: a normal dusty galaxy at  $z = 6.1$  or SZ substructures?. *Astron. Astrophys.* 559, L1 (2013).
- Bothwell, M.S., I. Smail, S.C. Chapman, R. Genzel, R.J. Ivison, L.J. Tacconi, S. Alaghband-Zadeh, F. Bertoldi, A.W. Blain, C.M. Casey, P. Cox, T.R. Greve, D. Lutz, R. Neri, A. Omont and A.M. Swinbank: A survey of molecular gas in luminous sub-millimetre galaxies. *Mon. Not. R. Astron. Soc.* 429, 3047-3067 (2013).
- Bozzetto, L.M., M.D. Filipović, E.J. Crawford, M. Sasaki, P. Maggi, F. Haberl, D. Urošević, J.L. Payne, A.Y. De Horta, M. Stupar, R. Gruendl and J. Dickel: Multifrequency study of SNR J0533-7202, a new supernova remnant in the LMC. *Mon. Not. R. Astron. Soc.* 432, 2177-2181 (2013).
- Briggs, M.S., S. Xiong, V. Connaughton, D. Tierney, G. Fitzpatrick, S. Foley, J.E. Grove, A. Chekhtman, M. Gibby, G.J. Fishman, S. McBreen, V.L. Chaplin, S. Guiriec, E. Layden, P.N. Bhat, M. Hughes, J. Greiner, A. von Kienlin, R.M. Kippen, C.A. Meegan, W.S. Paciesas, R.D. Preece, C. Wilson-Hodge, R.H. Holzworth and M.L. Hutchins: Terrestrial gamma-ray flashes in the Fermi era: Improved observations and analysis methods. *J. Geophys. Res. (Space Phys.)* 118, 3805-3830 (2013).
- Brightman, M., J.D. Silverman, V. Mainieri, Y. Ueda, M. Schramm, K. Matsuoka, T. Nagao, C. Steinhardt, J. Kartaltepe, D.B. Sanders, E. Treister, O. Shemmer, W.N. Brandt, M. Brusa, A. Comastri, L.C. Ho, G. Lanzuisi, E. Lusso, K. Nandra, M. Salvato, G. Zamorani, M. Akiyama, D.M. Alexander, A. Bongiorno, P. Capak, F. Civano, A. Del Moro, A. Doi, M. Elvis, G. Hasinger, E.S. Laird, D. Masters, M. Mignoli, K. Ohta, K. Schawinski and Y. Taniguchi: A statistical relation between the X-ray spectral index and Eddington ratio of active galactic nuclei in deep surveys. *Mon. Not. R. Astron. Soc.* 433, 2485-2496 (2013).
- Brimouille, F., S. Seitz, M. Lerchster, R. Bender and J. Snigula: Dark matter halo properties from galaxy-galaxy lensing. *Mon. Not. R. Astron. Soc.* 432, 1046-1102 (2013).
- Brown, J.M., K.M. Pontoppidan, E.F. van Dishoeck, G.J. Herczeg, G.A. Blake and A. Smette: VLT-CRIRES Survey of Rovibrational CO Emission from Protoplanetary Disks. *Ap. J.* 770, 94 (2013).
- Bruderer, S.: Survival of molecular gas in cavities of transition disks. I. CO. *Astron. Astrophys.* 559, A46 (2013).
- Bryan, S.E., S.T. Kay, A.R. Duffy, J. Schaye, C. Dalla Vecchia and C.M. Booth: The impact of baryons on the spins and shapes of dark matter haloes. *Mon. Not. R. Astron. Soc.* 429, 3316-3329 (2013).
- Bunk, W., J.M. Amigó, T. Aschenbrenner and R. Monetti: A new perspective on transcripts by means of their matrix representation. Some properties and applications to coupled systems. *European Physical Journal Special Topics* 222, 363-381 (2013).
- Burgarella, D., V. Buat, C. Gruppioni, O. Cucciati, S. Heinis, S. Berta, M. Béthermin, J. Bock, A. Cooray, J.S. Dunlop, D. Farrah, A. Franceschini, E. Le Floch, D. Lutz, B. Magnelli, R. Nordon, S.J. Oliver, M.J. Page, P. Popesso, F. Pozzi, L. Riguccini, M. Vaccari and M. Viero: Herschel PEP/HerMES: the redshift evolution ( $0 \leq z \leq 4$ ) of dust attenuation and of the total (UV+IR) star formation rate density. *Astron. Astrophys.* 554, A70 (2013).
- Burgess, D. and M. Scholer: Microphysics of quasi-parallel shocks in collisionless plasmas. *Space Sci. Rev.* 178, 513-533 (2013).
- Burkert, A. and L. Hartmann: The Dependence of Star Formation Efficiency on Gas Surface Density. *Ap. J.* 773, 48 (2013).
- Burtscher, L., K. Meisenheimer, K.R.W. Tristram, W. Jaffe, S.F. Hönic, R.I. Davies, M. Kishimoto, J.-U. Pott, H. Röttgering, M. Schartmann, G. Weigelt and S. Wolf: A diversity of dusty AGN tori. Data release for the VLT/MIDI AGN Large Program and first results for 23 galaxies. *Astron. Astrophys.* 558, A149 (2013).
- Böhringer, H. and N. Schartel: X-ray galaxy cluster studies

- for astrophysics and cosmology. *Astron. Nachr.* 334, 482 (2013).
- Böhringer, H., G. Chon, C.A. Collins, L. Guzzo, N. Nowak and S. Bobrovskyi: The extended ROSAT-ESO flux limited X-ray galaxy cluster survey (REFLEX II) II. Construction and properties of the survey. *Astron. Astrophys.* 555, A30 (2013).
- Çalışkan, Ş., Ü. Ertan, M.A. Alpar, J.E. Trümper and N.D. Kylafis: On the evolution of the radio pulsar PSR J1734-3333. *Mon. Not. R. Astron. Soc.* 431, 1136-1142 (2013).
- Canning, R.E.A., M. Sun, J.S. Sanders, T.E. Clarke, A.C. Fabian, S. Giacintucci, D.V. Lal, N. Werner, S.W. Allen, M. Donahue, A.C. Edge, R.M. Johnstone, P.E.J. Nulsen, P. Salomé and C.L. Sarazin: A multiwavelength view of cooling versus AGN heating in the X-ray luminous cool-core of Abell 3581. *Mon. Not. R. Astron. Soc.* 435, 1108-1125 (2013).
- Cappellari, M., R.M. McDermid, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, A.F. Crocker, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: The ATLAS<sup>3D</sup> project – XX. Mass–size and mass– $\sigma$  distributions of early-type galaxies: bulge fraction drives kinematics, mass-to-light ratio, molecular gas fraction and stellar initial mass function. *Mon. Not. R. Astron. Soc.*, 432(3), 1862-1893 (2013).
- Cappellari, M., N. Scott, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, A.F. Crocker, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, P. Serra, A.-M. Weijmans and L.M. Young: The ATLAS<sup>3D</sup> project - XV. Benchmark for early-type galaxies scaling relations from 260 dynamical models: mass-to-light ratio, dark matter, Fundamental Plane and Mass Plane. *Mon. Not. R. Astron. Soc.* 432, 1709-1741 (2013).
- Carollo, C.M., A. Cibinel, S.J. Lilly, F. Miniati, P. Norberg, J.D. Silverman, van J. Gorkom, E. Cameron, A. Finoguenov, Y. Peng, A. Pipino and C.S. Rudick: The Zurich Environmental Study of galaxies in groups along the cosmic web - I. Which environment affects galaxy evolution? *Ap. J.*, 776(2): 71, pp. 1-38 (2013).
- Carter, P.J., D. Steeghs, E. de Miguel, W. Goff, R.A. Koff, T. Krajci, T.R. Marsh, B.T. Gänsicke, E. Breidt, P.J. Groot, G. Nelemans, G.H.A. Roelofs, A. Rau, D. Koester and T. Kupfer: The helium-rich cataclysmic variable SBSS 1108+574. *Mon. Not. R. Astron. Soc.* 431, 372-382 (2013).
- Carter, P.J., T.R. Marsh, D. Steeghs, P.J. Groot, G. Nelemans, D. Levitan, A. Rau, C.M. Copperwheat, T. Kupfer and G.H.A. Roelofs: A search for the hidden population of AM CVn binaries in the Sloan Digital Sky Survey. *Mon. Not. R. Astron. Soc.* 429, 2143-2160 (2013).
- Cavalié, T., H. Feuchtgruber, E. Lellouch, M. de Val-Borro, C. Jarchow, R. Moreno, P. Hartogh, G. Orton, T.K. Greathouse, F. Billebaud, M. Dobrijevic, L.M. Lara, A. González and H. Sagawa: Spatial distribution of water in the stratosphere of Jupiter from Herschel HIFI and PACS observations. *Astron. Astrophys.* 553, A21 (2013).
- Cenko, S.B., S.R. Kulkarni, A. Horesh, A. Corsi, D.B. Fox, J. Carpenter, D.A. Frail, P.E. Nugent, D.A. Perley, D. Gruber, A. Gal-Yam, P.J. Groot, G. Hallinan, E.O. Ofek, A. Rau, C.L. MacLeod, A.A. Miller, J.S. Bloom, A.V. Filippenko, M.M. Kasliwal, N.M. Law, A.N. Morgan, D. Polishook, D. Poznanski, R.M. Quimby, B. Sesar, K.J. Shen, J.M. Silverman and A. Sternberg: Discovery of a Cosmological, Relativistic Outburst via its Rapidly Fading Optical Emission. *Ap. J.* 769, 130 (2013).
- Chakrabarti, S., B. Magnelli, C.F. McKee, D. Lutz, S. Berta, P. Popesso and F. Pozzi: Photometric Redshifts of Submillimeter Galaxies. *Ap. J.* 773, 113 (2013).
- Chang, Y.-Y., A. van der Wel, H.-W. Rix, B. Holden, E.F. Bell, E.J. McGrath, S. Wuyts, B. Häussler, M. Barden, S.M. Faber, M. Mozena, H.C. Ferguson, Y. Guo, A. Galametz, N.A. Grogin, D.D. Kocevski, A.M. Koekemoer, A. Dekel, K.-H. Huang, N.P. Hathi and J. Donley: Structural Evolution of Early-type Galaxies to  $z = 2.5$  in CANDELS. *Ap. J.* 773, 149 (2013).
- Chang, Y.-Y., A. van der Wel, H.-W. Rix, S. Wuyts, S. Zibetti, B. Ramkumar and B. Holden: Shape Evolution of Massive Early-type Galaxies: Confirmation of Increased Disk Prevalence at  $z > 1$ . *Ap. J.* 762, 83 (2013).
- Chiang, C.-T., P. Wullstein, D. Jeong, E. Komatsu, G.A. Blanc, R. Ciardullo, N. Drory, M. Fabricius, S. Finkelstein, K. Gebhardt, C. Gronwall, A. Hagen, G.J. Hill, I. Jee, S. Joglee, M. Landriau, E. Mentuch Cooper, D.P. Schneider and S. Tuttle: Galaxy redshift surveys with sparse sampling. *J. of Cosmology and Astroparticle Phys.* 12, 30 (2013).
- Chon, G. and H. Böhringer: Cluster science from ROSAT to eROSITA. *Astron. Nachr.* 334, 478 (2013).
- Chon, G., H. Böhringer and N. Nowak: The extended ROSAT-ESO Flux-Limited X-ray Galaxy Cluster Survey (REFLEX II) - III. Construction of the first flux-limited supercluster sample. *Mon. Not. R. Astron. Soc.* 429, 3272-3287 (2013).
- Chuang, C.-H., F. Prada, A.J. Cuesta, D.J. Eisenstein, E. Kazin, N. Padmanabhan, A.G. Sánchez, X. Xu, F. Beutler, M. Manera, D.J. Schlegel, D.P. Schneider, D.H. Weinberg, J. Brinkmann, J.R. Brownstein and D. Thomas: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: single-probe measurements and the strong power of  $f(z)\sigma^8(z)$  on constraining dark energy. *Mon. Not. R. Astron. Soc.* 433, 3559-3571 (2013).
- Ciambur, B.C., G. Kauffmann and S. Wuyts: On the evolution of the bi-modal distribution of galaxies in the plane of specific star formation rate versus stellar mass. *Mon. Not. R. Astron. Soc.* 432, 2488-2495 (2013).
- Ciardullo, R., C. Gronwall, J.J. Adams, G.A. Blanc, K. Gebhardt, S.L. Finkelstein, S. Joglee, G.J. Hill, N. Drory, U. Hopp, D.P. Schneider, G.R. Zeimann and G.B. Dalton: The HETDEX Pilot Survey. IV. The Evolution of [O II] Emitting Galaxies from  $z \sim 0.5$  to  $z \sim 0$ . *Ap. J.* 769, 83 (2013).
- Cibinel, A., C.M. Carollo, S.J. Lilly, S. Bonoli, F. Miniati, A. Pipino, J.D. Silverman, J.H. van Gorkom, E. Cameron, A. Finoguenov, P. Norberg, Y. Peng and C.S. Rudick: The Zurich Environmental Study of galaxies in groups along

- the cosmic web - III. Galaxy photometric measurements and the spatially resolved color properties of early- and late-type satellites in diverse environments. *Ap. J.*, 777(2): 116, pp. 1-25 (2013).
- Cibinel, A., C.M. Carollo, S.J. Lilly, F. Miniati, J.D. Silverman, J.H. van Gorkom, E. Cameron, A. Finoguenov, P. Norberg, Y. Peng, A. Pipino and C.S. Rudick: The Zurich Environmental Study (ZENS) of galaxies in groups along the cosmic web - II. Galaxy structural measurements and the concentration of morphologically classified satellites in diverse environments. *Ap. J.*, 776(2): 72, pp. 1-49 (2013).
- Cimatti, A., M. Brusa, M. Talia, M. Mignoli, G. Rodighiero, J. Kurk, P. Cassata, C. Halliday, A. Renzini and E. Daddi: Active Galactic Nucleus Feedback at  $z \sim 2$  and the Mutual Evolution of Active and Inactive Galaxies. *Ap. J. Lett.* 779, L13 (2013).
- Clark, J.S., E.S. Bartlett, M.J. Coe, R. Dorda, F. Haberl, J.B. Lamb, I. Negueruela and A. Udalski: The supergiant B[e] star LHA 115-S 18 - binary and/or luminous blue variable?. *Astron. Astrophys.* 560, A10 (2013).
- Clavel, M., R. Terrier, A. Goldwurm, M.R. Morris, G. Ponti, S. Soldi and G. Trap: Echoes of multiple outbursts of Sagittarius A\* revealed by Chandra. *Astron. Astrophys.* 558, A32 (2013).
- Cocato, L., M. Arnaboldi and O. Gerhard: Signatures of accretion events in the haloes of early-type galaxies from comparing PNe and GCs kinematics. *Mon. Not. R. Astron. Soc.* 436, 1322-1334 (2013).
- Coe, D., A. Zitrin, M. Carrasco, X. Shu, W. Zheng, M. Postman, L. Bradley, A. Koekemoer, R. Bouwens, T. Broadhurst, A. Monna, O. Host, L.A. Moustakas, H. Ford, J. Moustakas, A. van der Wel, M. Donahue, S.A. Rodney, N. Benítez, S. Jouvel, S. Seitz, D.D. Kelson and P. Rosati: CLASH: Three Strongly Lensed Images of a Candidate  $z \approx 11$  Galaxy. *Ap. J.* 762, 32 (2013).
- Combes, F., S. García-Burillo, V. Casasola, L. Hunt, M. Krips, A.J. Baker, F. Boone, A. Eckart, I. Marquez, R. Neri, E. Schinnerer and L.J. Tacconi: ALMA observations of feeding and feedback in nearby Seyfert galaxies: an AGN-driven outflow in NGC 1433. *Astron. Astrophys.* 558, A124 (2013).
- Connaughton, V., V. Pelassa, M.S. Briggs, ..., A. Von Kienlin, et al.: Radio signals from electron beams in terrestrial gamma ray flashes. *Journal of Geophysical Research: Space Physics*, Vol. 118, Issue 5, 2313-2320 (2013).
- Conroy, C., A.A. Dutton, G.J. Graves, J.T. Mendel and P.G. van Dokkum: Dynamical versus stellar masses in compact early-type galaxies: further evidence for systematic variation in the stellar initial mass function. *Ap. J. Letters*, 776(2): L26, pp. 1-5 (2013).
- Contursi, A., A. Poglitsch, J. Gracia Carpio, S. Veilleux, E. Sturm, J. Fischer, A. Verma, S. Hailey-Dunsheath, D. Lutz, R. Davies, E. González-Alfonso, A. Sternberg, R. Genzel and L. Tacconi: Spectroscopic FIR mapping of the disk and galactic wind of M 82 with Herschel-PACS. *Astron. Astrophys.* 549, A118 (2013).
- Cortesi, A., M. Arnaboldi, L. Cocato, M.R. Merrifield, O. Gerhard, S. Bamford, A.J. Romanowsky, N.R. Napolitano, N.G. Douglas, K. Kuijken, M. Capaccioli, K.C. Freeman, A.L. Chies-Santos and V. Pota: The Planetary Nebula Spectrograph survey of S0 galaxy kinematics. Data and overview. *Astron. Astrophys.* 549, A115 (2013).
- Cortesi, A., M.R. Merrifield, L. Cocato, M. Arnaboldi, O. Gerhard, S. Bamford, N.R. Napolitano, A.J. Romanowsky, N.G. Douglas, K. Kuijken, M. Capaccioli, K.C. Freeman, K. Saha and A.L. Chies-Santos: Planetary Nebula Spectrograph survey of S0 galaxy kinematics - II. Clues to the origins of S0 galaxies. *Mon. Not. R. Astron. Soc.* 432, 1010-1020 (2013).
- Coutens, A., C. Vastel, S. Cabrit, C. Codella, L.E. Kristensen, C. Ceccarelli, E.F. van Dishoeck, A.C.A. Boogert, S. Bottinelli, A. Castets, E. Caux, C. Comito, K. Demyk, F. Herpin, B. Le Floch, C. McCoey, J.C. Mottram, B. Parise, V. Taquet, F.F.S. van der Tak, R. Visser and U.A. Yildiz: Deuterated water in the solar-type protostars NGC 1333 IRAS 4A and IRAS 4B. *Astron. Astrophys.* 560, A39 (2013).
- Dadina, M., N. Masetti, M. Cappi, G. Malaguti, G. Miniutti, G. Ponti, P. Gandhi and B. De Marco: Ultraluminous X-ray source XMMUJ132218.3-164247 is in fact a type I Quasar. *Astron. Astrophys.* 559, A86 (2013).
- Dahle, H., M.D. Gladders, K. Sharon, M.B. Bayliss, E. Wu-yts, L.E. Abramson, B.P. Koester, N. Groeneboom, T.E. Brinckmann, M.T. Kristensen, M.O. Lindholmer, A. Nielsen, J.-K. Krogager and J.P.U. Fynbo: SDSS J2222+2745: A Gravitationally Lensed Sextuple Quasar with a Maximum Image Separation of 15."1 Discovered in the Sloan Giant Arcs Survey. *Ap. J.* 773, 146 (2013).
- Dahlen, T., B. Mobasher, S.M. Faber, H.C. Ferguson, G. Barro, S.L. Finkelstein, K. Finlator, A. Fontana, R. Gruetzbauch, S. Johnson, J. Pforr, M. Salvato, T. Wiklund, S. Wu-yts, V. Acquaviva, M.E. Dickinson, Y. Guo, J. Huang, K.-H. Huang, J.A. Newman, E.F. Bell, C.J. Conselice, A. Galametz, E. Gawiser, M. Giavalisco, N.A. Grogin, N. Hathi, D. Kocevski, A.M. Koekemoer, D.C. Koo, K.-S. Lee, E.J. McGrath, C. Papovich, M. Peth, R. Ryan, R. Somerville, B. Weiner and G. Wilson: A Critical Assessment of Photometric Redshift Methods: A CANDELS Investigation. *Ap. J.* 775, 93 (2013).
- Davidzon, I., M. Bolzonella, J. Coupon, O. Ilbert, S. Arnouts, S. de la Torre, A. Fritz, G. De Lucia, A. Iovino, B.R. Granett, G. Zamorani, L. Guzzo, U. Abbas, C. Adami, J. Bel, D. Bottini, E. Branchini, A. Cappi, O. Cucciati, P. Franzetti, M. Fumana, B. Garilli, J. Krywult, V. Le Brun, O. Le Fèvre, D. Maccagni, K. Malek, F. Marulli, H.J. McCracken, L. Paioro, J.A. Peacock, M. Polletta, A. Pollo, H. Schlegelhauser, M. Scodreggio, L.A.M. Tasca, R. Tojeiro, D. Vergani, A. Zanichelli, A. Burden, C. Di Porto, A. Marchetti, C. Marinoni, Y. Mellier, L. Moscardini, T. Moutard, R.C. Nichol, W.J. Percival, S. Phleps and M. Wolk: The VIMOS Public Extragalactic Redshift Survey (VIPERS). A precise measurement of the galaxy stellar mass function and the abundance of massive galaxies at redshifts  $0.5 < z < 1.3$ . *Astron. Astrophys.* 558, A23 (2013).
- Davies, R.I., A. Agudo Berbel, E. Wierorrek, M. Cirasuolo, N.M. Förster Schreiber, Y. Jung, B. Muschelok, T. Ott, S. Ramsay, J. Schlichter, R. Sharples and M. Wegner:

- The Software Package for Astronomical Reductions with KMOS: SPARK. *Astron. Astrophys.* 558, A56 (2013).
- Davis, T.A., K. Alatalo, M. Bureau, M. Cappellari, N. Scott, L.M. Young, L. Blitz, A. Crocker, E. Bayet, M. Bois, F. Bournaud, 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, P. Serra and A.-M. Weijmans: The ATLAS<sup>3D</sup> Project - XIV. The extent and kinematics of the molecular gas in early-type galaxies. *Mon. Not. R. Astron. Soc.* 429, 534-555 (2013).
- Dawson, K.S., D.J. Schlegel, C.P. Ahn, ..., A. Beifiori, ..., F. Montesano, ..., A.G. Sánchez, et al.: The Baryon Oscillation Spectroscopic Survey of SDSS-III. *Astron. J.* 145, 10 (2013).
- Dayal, P., J.S. Dunlop, U. Maio and B. Ciardi: Simulating the assembly of galaxies at redshifts  $z = 6-12$ . *Mon. Not. R. Astron. Soc.*, 434(2), 1486-1504 (2013).
- De Cia, A., C. Ledoux, S. Savaglio, P. Schady and P.M. Vreeswijk: Dust-to-metal ratios in damped Lyman- $\alpha$  absorbers. Fresh clues to the origins of dust and optical extinction towards  $\gamma$ -ray bursts. *Astron. Astrophys.* 560, A88 (2013).
- de Hoon, A., G. Lamer, A. Schwobe, M. Mühlegger, R. Fassbender, H. Böhringer, M. Lerchster, A. Nastasi, R. Šuhada, M. Verdugo, J.P. Dietrich, F. Brimiouille, P. Rosati, D. Pierini, J.S. Santos, H. Quintana, A. Rabitz and A. Tackey: Distant galaxy clusters in a deep XMM-Newton field within the CFTHLS D4. *Astron. Astrophys.* 551, A8 (2013).
- de Hoon, A., G. Lamer, A. Schwobe, M. Mühlegger, R. Fassbender, H. Böhringer, M. Lerchster, A. Nastasi, R. Šuhada, P. Rosati, D. Pierini, J.S. Santos and H. Quintana: Distant clusters of galaxies in a deep XMM-Newton observation. *Astron. Nachr.* 334, 470 (2013).
- de la Torre, S., L. Guzzo, J.A. Peacock, E. Branchini, A. Iovino, B.R. Granett, U. Abbas, C. Adami, S. Arnouts, J. Bel, M. Bolzonella, D. Bottini, A. Cappi, J. Coupon, O. Cucciati, I. Davidzon, G. De Lucia, A. Fritz, P. Franzetti, M. Fumana, B. Garilli, O. Ilbert, J. Krywult, V. Le Brun, O. Le Fèvre, D. Maccagni, K. Malek, F. Marulli, H.J. McCracken, L. Moscardini, L. Paioro, W.J. Percival, M. Polletta, A. Pollo, H. Schlegel, M. Scodreggio, L.A.M. Tasca, R. Tojeiro, D. Vergani, A. Zanichelli, A. Burden, C. Di Porto, A. Marchetti, C. Marinoni, Y. Mellier, P. Monaco, R.C. Nichol, S. Phleps, M. Wolk and G. Zamorani: The VIMOS Public Extragalactic Redshift Survey (VIPERS). Galaxy clustering and redshift-space distortions at  $z \approx 0.8$  in the first data release. *Astron. Astrophys.* 557, A54 (2013).
- De Lorenzi, F., M. Hartmann, V.P. Debattista, A.C. Seth and O. Gerhard: Three-integral multicomponent dynamical models and simulations of the nuclear star cluster in NGC 4244. *Mon. Not. R. Astron. Soc.* 429, 2974-2985 (2013).
- De Marco, B., G. Ponti, G. Miniutti, T. Belloni, M. Cappi, M. Dadina and T. Muñoz-Darias: Time lags in the ultraluminous X-ray source NGC 5408 X-1: implications for the black hole mass. *Mon. Not. R. Astron. Soc.* 436, 3782-3791 (2013).
- De Marco, B., G. Ponti, M. Cappi, M. Dadina, P. Uttley, E.M. Cackett, A.C. Fabian and G. Miniutti: Discovery of a relation between black hole mass and soft X-ray time lags in active galactic nuclei. *Mon. Not. R. Astron. Soc.* 431, 2441-2452 (2013).
- de Souza, R.S., B. Ciardi, U. Maio and A. Ferrara: Dark matter halo environment for primordial star formation. *Mon. Not. R. Astron. Soc.*, 428(3), 2109-2117 (2013).
- de Souza, R.S., Ishida, E.E.O., J.L. Johnson, D.J. Whalen and A. Mesinger: Detectability of the first cosmic explosions. *Mon. Not. R. Astron. Soc.*, 436(2), 1555-1563 (2013).
- Dent, W.R.F., W.F. Thi, I. Kamp, ..., D. Fedele, et al.: GAS-PS - A Herschel Survey of Gas and Dust in Protoplanetary Disks: Summary and Initial Statistics. *Publ. Astron. Soc. Pac.* 125, 477-505 (2013).
- Diehl, R.: Nuclear astrophysics lessons from INTEGRAL. *Reports on Progress in Physics* 76, 026301 (2013).
- Diener, C., S.J. Lilly, C. Knobel, ..., A. Bongiorno, ..., G. Coppa, et al.: Proto-groups at  $1.8 < z < 3$  in the zCOSMOS-deep sample. *Ap. J.*, 765(2): 109, pp. 1-11 (2013).
- Dionatos, O., J.K. Jørgensen, J.D. Green, G.J. Herczeg, N.J. Evans, L.E. Kristensen, J.E. Lindberg and E.F. van Dishoeck: Dust, ice and gas in time (DIGIT): Herschel and Spitzer spectro-imaging of SMM3 and SMM4 in Serpens. *Astron. Astrophys.* 558, A88 (2013).
- Ducci, L., M. Sasaki, F. Haberl and W. Pietsch: X-ray source population study of the starburst galaxy M 83 with XMM-Newton. *Astron. Astrophys.* 553, A7 (2013).
- Durniak, C., D. Samsonov, J.F. Ralph, S. Zhdanov and G. Morfill: Dislocation dynamics during plastic deformations of complex plasma crystals. *Physical Review E* 88, 053101 (2013).
- Díaz-Santos, T., L. Armus, V. Charmandaris, S. Stierwalt, E.J. Murphy, S. Haan, H. Inami, S. Malhotra, R. Meijerink, G. Stacey, A.O. Petric, A.S. Evans, S. Veilleux, P.P. van der Werf, S. Lord, N. Lu, J.H. Howell, P. Appleton, J.M. Mazzarella, J.A. Surace, C.K. Xu, B. Schulz, D.B. Sanders, C. Bridge, B.H.P. Chan, D.T. Frayer, K. Iwasawa, J. Melbourne and E. Sturm: Explaining the [C II] $\lambda$ 157.7  $\mu$ m Deficit in Luminous Infrared Galaxies - First Results from a Herschel/PACS Study of the GOALS Sample. *Ap. J.* 774, 68 (2013).
- Eichner, T., S. Seitz, S.H. Suyu, A. Halkola, K. Umetsu, A. Zitrin, D. Coe, A. Monna, P. Rosati, C. Grillo, I. Balestra, M. Postman, A. Koekemoer, W. Zheng, O. Høst, D. Lemze, T. Broadhurst, L. Moustakas, L. Bradley, A. Molino, M. Nonino, A. Mercurio, M. Scodreggio, M. Bartelmann, N. Benitez, R. Bouwens, M. Donahue, L. Infante, S. Jovel, D. Kelson, O. Lahav, E. Medezinski, P. Melchior, J. Merten and A. Riess: Galaxy Halo Truncation and Giant Arc Surface Brightness Reconstruction in the Cluster MACSJ1206.2-0847. *Ap. J.* 774, 124 (2013).
- Ellison, S.L., J.T. Mendel, D.R. Patton and J.M. Scudder: Galaxy pairs in the Sloan Digital Sky Survey - VIII. The observational properties of post-merger galaxies. *Mon. Not. R. Astron. Soc.*, 435(4), 3627-3638 (2013).
- Elliott, J., T. Krühler, J. Greiner, S. Savaglio, F. Olivares,

- E.A. Rau, A. de Ugarte Postigo, R. Sánchez-Ramírez, K. Wiersema, P. Schady, D.A. Kann, R. Filgas, M. Nardini, E. Berger, D. Fox, J. Gorosabel, S. Klose, A. Levan, A. Nicuesa Guelbenzu, A. Rossi, S. Schmidl, V. Sudilovsky, N.R. Tanvir and C.C. Thöne: The low-extinction afterglow in the solar-metallicity host galaxy of  $\gamma$ -ray burst 110918A. *Astron. Astrophys.* 556, A23 (2013).
- Erfanianfar, G., A. Finoguenov, M. Tanaka, M. Lerchster, K. Nandra, E. Laird, J.L. Connelly, R. Bielby, M. Mirkazemi, S.M. Faber, D. Kocevski, M. Cooper, J.A. Newman, T. Jeltema, A.L. Coil, F. Brimiouille, M. Davis, H.J. McCracken, C. Willmer, B. Gerke, N. Cappelluti and S. Gwyn: X-Ray Groups of Galaxies in the AEGIS Deep and Wide Fields. *Ap. J.* 765, 117 (2013).
- Erwin, P. and V.P. Debattista: Peanuts at an angle: detecting and measuring the three-dimensional structure of bars in moderately inclined galaxies. *Mon. Not. R. Astron. Soc.* 431, 3060-3086 (2013).
- Ewing, I., D.J. Christian, D. Bodewits, K. Dennerl, C.M. Lisse and S.J. Wolk: Emission Lines between 1 and 2 keV in Cometary X-Ray Spectra. *Ap. J.* 763, 66 (2013).
- Fabian, A.C., E. Kara, D.J. Walton, D.R. Wilkins, R.R. Ross, K. Lozanov, P. Uttley, L.C. Gallo, A. Zoghbi, G. Miniutti, T. Boller, W.N. Brandt, E.M. Cackett, C.-Y. Chiang, T. Dwelly, J. Malzac, J.M. Miller, E. Nardini, G. Ponti, R.C. Reis, C.S. Reynolds, J.F. Steiner, Y. Tanaka and A.J. Young: Long XMM observation of the narrow-line Seyfert 1 galaxy IRAS 13224-3809: rapid variability, high spin and a soft lag. *Mon. Not. R. Astron. Soc.* 429, 2917-2923 (2013).
- Fabian, A.C., J.S. Sanders, M. Haehnelt, M.J. Rees and J.M. Miller: X-ray emission from the ultramassive black hole candidate NGC 1277: implications and speculations on its origin. *Mon. Not. R. Astron. Soc.* 431, L38-L42 (2013).
- Falocco, S., F.J. Carrera, A. Corral, X. Barcons, A. Comastri, R. Gilli, P. Ranalli, C. Vignali, K. Iwasawa, N. Cappelluti, E. Rovilos, I. Georgantopoulos, M. Brusa and F. Vito: The XMM Deep survey in the CDF-S - V. Iron K lines from active galactic nuclei in the distant universe. *Astron. Astrophys.*, 555: A79, pp. 1-14 (2013).
- Fanidakis, N., A. Georgakakis, G. Mountrichas, M. Krumpke, C.M. Baugh, C.G. Lacey, C.S. Frenk, T. Miyaji and A.J. Benson: Constraints on black hole fuelling modes from the clustering of X-ray AGN. *Mon. Not. R. Astron. Soc.*, 435(1), 679-688 (2013).
- Fedele, D., S. Bruderer, E.F. van Dishoeck, J. Carr, G.J. Herczeg, C. Salyk, N.J. Evans, J. Bouwman, G. Meeus, T. Henning, J. Green, J.R. Najita and M. Güdel: DIGIT survey of far-infrared lines from protoplanetary disks. I. [O i], [C ii], OH, H<sub>2</sub>O, and CH<sup>+</sup>. *Astron. Astrophys.* 559, A77 (2013).
- Fedele, D., S. Bruderer, E.F. van Dishoeck, M.R. Hogerheijde, O. Panic, J.M. Brown and T. Henning: Probing the Radial Temperature Structure of Protoplanetary Disks with Herschel/HIFI. *Ap. J. Lett.* 776, L3 (2013).
- Feruglio, C., F. Fiore, E. Piconcelli, C. Cicone, R. Maiolino, R. Davies and E. Sturm: High resolution mapping of CO(1-0) in NGC 6240. *Astron. Astrophys.* 558, A87 (2013).
- Feruglio, C., F. Fiore, R. Maiolino, E. Piconcelli, H. Aussel, D. Elbaz, E. Le Floch, E. Sturm, R. Davies and C. Cicone: NGC 6240: extended CO structures and their association with shocked gas. *Astron. Astrophys.* 549, A51 (2013).
- Feuchtgruber, H., E. Lellouch, G. Orton, T. de Graauw, B. Vandenbusche, B. Swinyard, R. Moreno, C. Jarchow, F. Billebaud, T. Cavalié, S. Sidher and P. Hartogh: The D/H ratio in the atmospheres of Uranus and Neptune from Herschel-PACS observations. *Astron. Astrophys.* 551, A126 (2013).
- Fink, M.A., S.K. Zhdanov, M. Schwabe, M.H. Thoma, H. Höfner, H.M. Thomas and G.E. Morfill: Autowaves in a dc complex plasma confined behind a de Laval nozzle. *EPL (Europhysics Letters)* 102, 45001 (2013).
- Folatelli, G., N. Morrell, M.M. Phillips, ..., F. Olivares E., et al.: Spectroscopy of type Ia supernovae by the Carnegie Supernova Project. *Ap. J.*, 773(1): 53, pp. 1-28 (2013).
- Fornasier, S., E. Lellouch, T. Müller, P. Santos-Sanz, P. Panuzzo, C. Kiss, T. Lim, M. Mommert, D. Bockelée-Morvan, E. Vilenius, J. Stansberry, G.P. Tozzi, S. Mottola, A. Delsanti, J. Crovisier, R. Duffard, F. Henry, P. Lacerda, A. Barucci and A. Gicquel: TNOs are Cool: A survey of the trans-Neptunian region. VIII. Combined Herschel PACS and SPIRE observations of nine bright targets at 70-500  $\mu$ m. *Astron. Astrophys.* 555, A15 (2013).
- Fossati, M., G. Gavazzi, G. Savorgnan, M. Fumagalli, A. Boselli, L. Gutierrez, H. Hernandez Toledo, R. Giovanelli and M.P. Haynes: H $\alpha$ 3: an H $\alpha$  imaging survey of HI selected galaxies from ALFALFA. IV. Structure of galaxies in the Local and Coma superclusters. *Astron. Astrophys.* 553, A91 (2013).
- Fraser, M., M. Magee, R. Kotak, S.J. Smartt, K.W. Smith, J. Polshaw, A.J. Drake, T. Boles, C.-H. Lee, W.S. Burgett, K.C. Chambers, P.W. Draper, H. Flewelling, K.W. Hodapp, N. Kaiser, R.-P. Kudritzki, E.A. Magnier, P.A. Price, J.L. Tonry, R.J. Wainscoat and C. Waters: Detection of an outburst one year prior to the explosion of SN 2011ht. *Ap. J. Letters*, 779(1): L8, pp. 1-6 (2013).
- Frederiks, D.D., K. Hurley, D.S. Svinikin, V.D. Pal'shin, V. Mangano, S. Oates, R.L. Apteekar, S.V. Golenetskii, E.P. Mazets, P.P. Oleynik, A.E. Tsvetkova, M.V. Ulanov, A.A. Kokomov, T.L. Cline, D.N. Burrows, H.A. Krimm, C. Paganini, B. Sbarufatti, M.H. Siegel, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, A. von Kienlin, A. Rau, X. Zhang and J. Goldstein: The Ultraluminous GRB 110918A. *Ap. J.* 779, 151 (2013).
- Freundlich, J., F. Combes, L.J. Tacconi, M.C. Cooper, R. Genzel, R. Neri, A. Bolatto, F. Bournaud, A. Burkert, P. Cox, M. Davis, N.M. Förster Schreiber, S. Garcia-Burillo, J. Gracia-Carpio, D. Lutz, T. Naab, S. Newman, A. Sternberg and B. Weiner: Towards a resolved Kennicutt-Schmidt law at high redshift. *Astron. Astrophys.* 553, A130 (2013).
- Frith, J., D.J. Pinfield, Jones, H.R.A., J.R. Barnes, Y. Pavlenko, E.L. Martin, C. Brown, M.K. Kuznetsov, F. Marocco, R. Tata and M. Cappetta: A catalogue of bright ( $K < 9$ ) M dwarfs. *Mon. Not. R. Astron. Soc.*, 435(3), 2161-2170

(2013).

Galamez, A., A. Grazian, A. Fontana, ..., S. Wuyts: CANDELS Multiwavelength Catalogs: Source Identification and Photometry in the CANDELS UKIDSS Ultra-deep Survey Field. *Ap. J. Supp. Ser.* 206, 10 (2013).

Galamez, A., D. Stern, L. Pentericci, C. De Breuck, J. Vernet, D. Wylezalek, R. Fassbender, N. Hatch, J. Kurk, R. Overzier, A. Rettura and N. Seymour: A large-scale galaxy structure at  $z = 2.02$  associated with the radio galaxy MRC 0156-252. *Astron. Astrophys.* 559, A2 (2013).

Gavazzi, G., G. Consolandi, M. Dotti, M. Fossati, G. Savorgnan, R. Gualandi and I. Bruni: Red-channel (6000–8000 Å) nuclear spectra of 376 local galaxies. *Astron. Astrophys.*, 558: A68, pp. 1-8 (2013).

Gavazzi, G., G. Savorgnan, M. Fossati, M. Dotti, M. Fumagalli, A. Boselli, L. Gutierrez, H. Hernandez Toledo, R. Giovanelli and M.P. Haynes: H $\alpha$ 3: an H $\alpha$  imaging survey of HI selected galaxies from ALFALFA. III. Nurture builds up the Hubble sequence in the Great Wall. *Astron. Astrophys.* 553, A90 (2013).

Gavazzi, G., M. Fumagalli, M. Fossati, V. Galardo, F. Grossetti, A. Boselli, R. Giovanelli and M.P. Haynes: H $\alpha$ 3: an H $\alpha$  imaging survey of HI selected galaxies from ALFALFA. II. Star formation properties of galaxies in the Virgo cluster and surroundings. *Astron. Astrophys.* 553, A89 (2013).

Geach, J.E., R.C. Hickox, L.E. Bleem, ..., J.J. Mohr, et al.: A Direct Measurement of the Linear Bias of Mid-infrared-selected Quasars at  $z \approx 1$  Using Cosmic Microwave Background Lensing. *Ap. J. Lett.* 776, L41 (2013).

Genzel, R., L.J. Tacconi, J. Kurk, S. Wuyts, F. Combes, J. Freundlich, A. Bolatto, M.C. Cooper, R. Neri, R. Nordon, F. Bournaud, A. Burkert, J. Comerford, P. Cox, M. Davis, N.M. Förster Schreiber, S. García-Burillo, J. Gracia-Carpio, D. Lutz, T. Naab, S. Newman, A. Saintonge, K. Shapiro Griffin, A. Shapley, A. Sternberg and B. Weiner: Phibss: Molecular Gas, Extinction, Star Formation, and Kinematics in the  $z = 1.5$  Star-forming Galaxy EGS13011166. *Ap. J.* 773, 68 (2013).

Georgantopoulos, I., A. Comastri, C. Vignali, P. Ranalli, E. Rovilos, K. Iwasawa, R. Gilli, N. Cappelluti, F. Carrera, J. Fritz, M. Brusa, D. Elbaz, R.J. Mullaney, N. Castello-Mor, X. Barcons, P. Tozzi, I. Balestra and S. Falocco: The XMM deep survey in the CDF-S. IV. Compton-thick AGN candidates. *Astron. Astrophys.* 555, A43 (2013).

Ghisellini, G., M. Nardini, G. Tagliaferri, P. Schady, A. Rau, L. Foschini, F. Tavecchio, G. Ghirlanda and T. Sbarrato: High-redshift Fermi blazars observed by GROND and Swift. *Mon. Not. R. Astron. Soc.* 428, 1449-1459 (2013).

Gillessen, S., R. Genzel, T.K. Fritz, F. Eisenhauer, O. Pfuhl, T. Ott, J. Cuadra, M. Schartmann and A. Burkert: New Observations of the Gas Cloud G2 in the Galactic Center. *Ap. J.* 763, 78 (2013).

Gillessen, S., R. Genzel, T.K. Fritz, F. Eisenhauer, O. Pfuhl, T. Ott, M. Schartmann, A. Ballone and A. Burkert: Pericenter Passage of the Gas Cloud G2 in the Galactic Center. *Ap. J.* 774, 44 (2013).

Gladders, M.D., J.R. Rigby, K. Sharon, E. Wuyts, L.E. Ab-

ramson, H. Dahle, S.E. Persson, A.J. Monson, D.D. Kelson, D.J. Benford, D. Murphy, M.B. Bayliss, K.D. Finkelshtein, B.P. Koester, A. Bans, E.J. Baxter and J.E. Helsby: SGAS 143845.1+145407: A Big, Cool Starburst at Redshift 0.816. *Ap. J.* 764, 177 (2013).

Giozzi, M., I.E. Papadakis, D. Grupe, W.P. Brinkmann and C. R ath: Long-term monitoring of PKS 0558-504 with Swift: the disc-corona link. *Mon. Not. R. Astron. Soc.* 433, 1709-1717 (2013).

Goicoechea, J.R., M. Etxaluze, J. Cernicharo, M. Gerin, D.A. Neufeld, A. Contursi, T.A. Bell, M. De Luca, P. Encrenaz, N. Indriolo, D.C. Lis, E.T. Polehampton and P. Sonnentrucker: Herschel\* Far-infrared Spectroscopy of the Galactic Center. Hot Molecular Gas: Shocks versus Radiation near Sgr A. *Ap. J. Lett.* 769, L13 (2013).

Gonz alez-Alfonso, E., J. Fischer, S. Bruderer, H.S.P. M uller, J. Graci a-Carpio, E. Sturm, D. Lutz, A. Poglitsch, H. Feuchtgruber, S. Veilleux, A. Contursi, A. Sternberg, S. Hailey-Dunsheath, A. Verma, N. Christopher, R. Davies, R. Genzel and L. Tacconi: Excited OH<sup>+</sup>, H<sub>2</sub>O<sup>+</sup>, and H<sub>3</sub>O<sup>+</sup> in NGC 4418 and Arp 220. *Astron. Astrophys.* 550, A25 (2013).

Graves, C.E., A.H. Reid, T. Wang, B. Wu, S. de Jong, K. Vahaplar, I. Radu, D.P. Bernstein, M. Messerschmidt, L. M uller, R. Coffee, M. Bionta, S.W. Epp, R. Hartmann, N. Kimmel, G. Hauser, A. Hartmann, P. Holl, H. Gorke, J.H. Mentink, A. Tsukamoto, A. Fognini, J.J. Turner, W.F. Schlotter, D. Rolles, H. Soltau, L. Str uder, Y. Acremann, A.V. Kimel, A. Kirilyuk, T. Rasing, J. St ohr, A.O. Scherz and H.A. D urr: Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. *Nature Materials* 12, 293-298 (2013).

Green, J.D., N.J. Evans II, J.K. J orgensen, G.J. Herczeg, L.E. Kristensen, J.-E. Lee, O. Dionatos, U.A. Yildiz, C. Salyk, G. Meeus, J. Bouwman, R. Visser, E.A. Bergin, E.F. van Dishoeck, M.R. Rascati, A. Karska, T.A. van Kempen, M.M. Dunham, J.E. Lindberg and D. Fedele (DIGIT Team): Embedded Protostars in the Dust, Ice, and Gas In Time (DIGIT) Herschel Key Program: Continuum SEDs, and an Inventory of Characteristic Far-infrared Lines from PACS Spectroscopy. *Ap. J.* 770, 123 (2013).

Greiner, J., T. Kr uhler, M. Nardini, R. Filgas, A. Moin, C. de Breuck, F. Montenegro-Montes, A. Lundgren, S. Klose, P.M.J. fonso, F. Bertoldi, J. Elliott, D.A. Kann, F. Knust, K. Menten, A. Nicuesa Guelbenzu, F. Olivares E., A. Rau, A. Rossi, P. Schady, S. Schmidl, G. Siringo, L. Spezzi, V. Sudilovsky, S.J. Tingay, A.C. Updike, Z. Wang, A. Weiss, M. Wieringa and F. Wyrowski: The unusual afterglow of the gamma-ray burst 100621A. *Astron. Astrophys.* 560, A70 (2013).

Greisel, N., S. Seitz, N. Drory, R. Bender, R.P. Saglia and J. Snigula: Photometric Redshifts and Systematic Variations in the Spectral Energy Distributions of Luminous Red Galaxies from SDSS DR7. *Ap. J.* 768, 117 (2013).

Gruen, D., F. Brimiouille, S. Seitz, C.-H. Lee, J. Young, J. Koppenhoefer, T. Eichner, A. Riffeser, V. Vikram, T. Weidinger and A. Zenteno: Weak lensing analysis of RXC J2248.7-4431. *Mon. Not. R. Astron. Soc.* 432, 1455-1467

(2013).

- Gruppioni, C., F. Pozzi, G. Rodighiero, I. Delvecchio, S. Berta, L. Pozzetti, G. Zamorani, P. Andreani, A. Cimatti, O. Ilbert, E. Le Floch, D. Lutz, B. Magnelli, L. Marchetti, P. Monaco, R. Nordon, S. Oliver, P. Popesso, L. Riguccini, I. Roseboom, D.J. Rosario, M. Sargent, M. Vaccari, B. Altieri, H. Aussel, A. Bongiovanni, J. Cepa, E. Daddi, H. Domínguez-Sánchez, D. Elbaz, N. Förster Schreiber, R. Genzel, A. Iribarrem, M. Magliocchetti, R. Maiolino, A. Poglitsch, A. Pérez García, M. Sanchez-Portal, E. Sturm, L. Tacconi, I. Valtchanov, A. Amblard, V. Arumugam, M. Bethermin, J. Bock, A. Boselli, V. Buat, D. Burgarella, N. Castro-Rodríguez, A. Cava, P. Chanial, D.L. Clements, A. Conley, A. Cooray, C.D. Dowell, E. Dwek, S. Eales, A. Franceschini, J. Glenn, M. Griffin, E. Hatziminaoglou, E. Ibar, K. Isaak, R.J. Ivison, G. Lagache, L. Levenson, N. Lu, S. Madden, B. Maffei, G. Mainetti, H.T. Nguyen, B. O'Halloran, M.J. Page, P. Panuzzo, A. Papageorgiou, C.P. Pearson, I. Pérez-Fournon, M. Pohlen, D. Rigopoulou, M. Rowan-Robinson, B. Schulz, D. Scott, N. Seymour, D.L. Shupe, A.J. Smith, J.A. Stevens, M. Symeonidis, M. Trichas, K.E. Tugwell, L. Vigroux, L. Wang, G. Wright, C.K. Xu, M. Zemcov, S. Bardelli, M. Carollo, T. Contini, O. Le Fèvre, S. Lilly, V. Mainieri, A. Renzini, M. Scodreggio and E. Zucca: The Herschel PEP/HerMES luminosity function - I. Probing the evolution of PACS selected Galaxies to  $z \approx 4$ . *Mon. Not. R. Astron. Soc.* 432, 23-52 (2013).
- Guiriec, S., F. Daigne, R. Hascoët, G. Vianello, F. Ryde, R. Mochkovitch, C. Kouveliotou, S. Xiong, P.N. Bhat, S. Foley, D. Gruber, J.M. Burgess, McGlynn, S., McEnery, J. and N. Gehrels: Evidence for a photospheric component in the prompt emission of the short GRB 120323A and its effects on the GRB hardness-luminosity relation. *Ap. J.*, 770(1): 32 (2013).
- Guo, H., I. Zehavi, Z. Zheng, D.H. Weinberg, ..., A.G. Sánchez, et al.: The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Luminosity and Color Dependence and Redshift Evolution. *Ap. J.* 767, 122 (2013).
- Guo, Y., H.C. Ferguson, M. Giavalisco, G. Barro, S.P. Willner, M.L.N. Ashby, T. Dahlen, J.L. Donley, S.M. Faber, A. Fontana, A. Galametz, A. Grazian, K.-H. Huang, D.D. Kocevski, A.M. Koekemoer, D.C. Koo, E.J. McGrath, M. Peth, M. Salvato, S. Wuyts, M. Castellano, A.R. Cooray, M.E. Dickinson, J.S. Dunlop, G.G. Fazio, J.P. Gardner, E. Gawiser, N.A. Grogin, N.P. Hathi, L.-T. Hsu, K.-S. Lee, R.A. Lucas, B. Mobasher, K. Nandra, J.A. Newman and A. van der Wel: CANDELS Multi-wavelength Catalogs: Source Detection and Photometry in the GOODS-South Field. *Ap. J. Supp. Ser.* 207, 24 (2013).
- Gómez Maqueo Chew, Y., F. Faedi, D. Pollacco, ..., V. Burwitz, et al.: Discovery of WASP-65b and WASP-75b: Two hot Jupiters without highly inflated radii. *Astron. Astrophys.* 559, A36 (2013).
- Haas, M.R., J. Schaye, C.M. Booth, C. Dalla Vecchia, V. Springel, T. Theuns and R.P.C. Wiersma: Physical properties of simulated galaxy populations at  $z = 2$  - I. Effect of metal-line cooling and feedback from star formation and AGN. *Mon. Not. R. Astron. Soc.* 435, 2931-2954 (2013).
- Haas, M.R., J. Schaye, C.M. Booth, C. Dalla Vecchia, V. Springel, T. Theuns and R.P.C. Wiersma: Physical properties of simulated galaxy populations at  $z = 2$  - II. Effects of cosmology, reionization and ISM physics. *Mon. Not. R. Astron. Soc.* 435, 2955-2967 (2013).
- Hamrin, M., P. Norqvist, T. Karlsson, H. Nilsson, H.S. Fu, S. Buchert, M. André, O. Marghita, T. Pitkänen, B. Klecker, L.M. Kistler and I. Dandouras: The evolution of flux pileup regions in the plasma sheet: Cluster observations. *J. Geophys. Res. (Space Phys.)* 118, 6279-6290 (2013).
- Hao, H., M. Elvis, A. Bongiorno, G. Zamorani, A. Merloni, B.C. Kelly, F. Civano, A. Celotti, L.C. Ho, K. Jahnke, A. Comastri, J.R. Trump, V. Mainieri, M. Salvato, M. Brusa, C.D. Impey, A.M. Koekemoer, G. Lanzuisi, C. Vignali, J.D. Silverman, C.M. Urry and K. Schawinski: A quasar-galaxy mixing diagram: quasar spectral energy distribution shapes in the optical to near-infrared. *Mon. Not. R. Astron. Soc.* 434, 3104-3121 (2013).
- Hardcastle, M.J. and M.G.H. Krause: Numerical modelling of the lobes of radio galaxies in cluster environments. *Mon. Not. R. Astron. Soc.* 430, 174-196 (2013).
- Harsono, D., R. Visser, S. Bruderer, E.F. van Dishoeck and L.E. Kristensen: Evolution of CO lines in time-dependent models of protostellar disk formation. *Astron. Astrophys.* 555, A45 (2013).
- Hartoog, O.E., K. Wiersema, P.M. Vreeswijk, L. Kaper, N.R. Tanvir, S. Savaglio, E. Berger, R. Chornock, S. Covino, V. D'Elia, H. Flores, J.P.U. Fynbo, P. Goldoni, A. Gomboc, A. Melandri, A. Pozanenko, J. Schaye, A. de Ugarte Postigo and R.A.M.J. Wijers: The host-galaxy response to the afterglow of GRB 100901A. *Mon. Not. R. Astron. Soc.* 430, 2739-2754 (2013).
- Hasegawa, S., T.G. Müller, D. Kuroda, S. Takita and F. Usui: The Asteroid Catalog Using AKARI IRC Slow-Scan Observations. *Publ. Astron. Soc. Jpn.* 65, 34 (2013).
- Hatch, N.A., H.J.A. Röttgering, G.K. Miley, E. Rigby, C. De Breuck, H. Ford, E. Kuiper, J.D. Kurk, R.A. Overzier and L. Pentericci: The host galaxy of the  $z = 2.4$  radio-loud AGN MRC 0406-244 as seen by HST. *Mon. Not. R. Astron. Soc.* 436, 2244-2253 (2013).
- Hayashida, M., L. Stawarz, C.C. Cheung, K. Bechtol, G.M. Madejski, M. Ajello, F. Massaro, I.V. Moskalenko, A. Strong and L. Tibaldo: Discovery of GeV Emission from the Circinus Galaxy with the Fermi Large Area Telescope. *Ap. J.* 779, 131 (2013).
- Heinlin, J., G. Isbary, W. Stolz, F. Zeman, M. Landthaler, G. Morfill, T. Shimizu, J.L. Zimmermann and S. Karrer: A randomized two-sided placebo-controlled study on the efficacy and safety of atmospheric non-thermal argon plasma for pruritus. *Journal of the European Academy of Dermatology and Venereology*, 27(3), 324-331 (2013).
- Heinlin, J., T. Maisch, J.L. Zimmermann, T. Shimizu, T. Holzmann, M. Simon, J. Heider, M. Landthaler, G. Morfill and S. Karrer: Contact-free inactivation of *Trichophyton rubrum* and *Microsporum canis* by cold atmospheric plasma treatment. *Future Microbiology*, 8(9), 1097-1106 (2013).
- Heinlin, J., J.L. Zimmermann, F. Zeman, W. Bunk, G. Isba-



- ry, M. Landthaler, T. Maisch, R. Monetti, G. Morfill, T. Shimizu, J. Steinbauer, W. Stolz and S. Karrer: Randomized placebo-controlled human pilot study of cold atmospheric argon plasma on skin graft donor sites. *Wound Repair and Regeneration*, 21(6), 800-807 (2013).
- Henrichs, H.F., J.A. de Jong, E. Verdugo, R.S. Schnerr, C. Neiner, J.-F. Donati, C. Catala, S.L.S. Shorlin, G.A. Wade, P.M. Veen, J.S. Nichols, E.M.F. Damen, A. Talavera, G.M. Hill, L. Kaper, A.M. Tijani, V.C. Geers, K. Wiersema, B. Plaggenborg and K.L.J. Rygl: Discovery of the magnetic field in the pulsating B star  $\beta$  Cephei. *Astron. Astrophys.* 555, A46 (2013).
- Henze, M., W. Pietsch, F. Haberl, M. Della Valle, A. Riffeser, G. Sala, D. Hatzidimitriou, F. Hofmann, D.H. Hartmann, J. Koppenhoefer, S. Seitz, G.G. Williams, K. Hornoch, K. Itagaki, F. Kabashima, K. Nishiyama, G. Xing, C.H. Lee, E. Magnier and K. Chambers: Supersoft X-rays reveal a classical nova in the M 31 globular cluster Bol 126. *Astron. Astrophys.* 549, A120 (2013).
- Hicks, A.K., G.W. Pratt, M. Donahue, E. Ellingson, M. Gladders, H. Böhringer, H.K.C. Yee, R. Yan, J.H. Croston and D.G. Gilbank: The X-ray properties of optically selected clusters of galaxies. *Mon. Not. R. Astron. Soc.* 431, 2542-2553 (2013).
- Hicks, E., R. Davies, W. Maciejewski, E. Emsellem, M. Malkan, G. Dumas, F. Mueller-Sanchez and A. Rivers: Fueling Active Galactic Nuclei. I. How the Global Characteristics of the Central Kiloparsec of Seyferts Differ from Quiescent Galaxies. *Ap. J.* 768, 107, (2013).
- Hirschmann, M., T. Naab, R. Davé, B.D. Oppenheimer, J.P. Ostriker, R.S. Somerville, L. Oser, R. Genzel, L.J. Tacconi, N.M. Förster-Schreiber, A. Burkert and S. Genel: The effect of metal enrichment and galactic winds on galaxy formation in cosmological zoom simulations. *Mon. Not. R. Astron. Soc.* 436, 2929-2949 (2013).
- Hlavacek-Larrondo, J., S.W. Allen, G.B. Taylor, A.C. Fabian, R.E.A. Canning, N. Werner, J.S. Sanders, C.K. Grimes, S. Ehlert and A. von der Linden: Probing the Extreme Realm of Active Galactic Nucleus Feedback in the Massive Galaxy Cluster, RX J1532.9+3021. *Ap. J.* 777, 163 (2013).
- Hofmann, F., W. Pietsch, M. Henze, F. Haberl, R. Sturm, M. Della Valle, D.H. Hartmann and D. Hatzidimitriou: X-ray source variability study of the M 31 central field using Chandra HRC-I. *Astron. Astrophys.* 555, A65 (2013).
- Holder, G.P., M.P. Viero, O. Zahn, K.A. Aird, B.A. Benson, S. Bhattacharya, L.E. Bleem, J. Bock, M. Brodwin, J.E. Carlstrom, C.L. Chang, H.-M. Cho, A. Conley, T.M. Crawford, A.T. Crites, T. de Haan, M.A. Dobbs, J. Dudley, E.M. George, N.W. Halverson, W.L. Holzapfel, S. Hoover, Z. Hou, J.D. Hrubes, R. Keisler, L. Knox, A.T. Lee, E.M. Leitch, M. Lueker, D. Luong-Van, G. Marsden, D.P. Marrone, J.J. McMahon, J. Mehl, S.S. Meyer, M. Millea, J.J. Mohr, T.E. Montroy, S. Padin, T. Plagge, C. Pryke, C.L. Reichardt, J.E. Ruhl, J.T. Sayre, K.K. Schaffer, B. Schulz, L. Shaw, E. Shirokoff, H.G. Spieler, Z. Staniszewski, A.A. Stark, K.T. Story, A. van Engelen, K. Vanderlinde, J.D. Vieira, R. Williamson and M. Zemcov: A Cosmic Microwave Background Lensing Mass Map and Its Correlation with the Cosmic Infrared Background. *Ap. J. Lett.* 771, L16 (2013).
- Hou, A., L.C. Parker, M.L. Balogh, S.L. McGee, D.J. Wilman, J.L. Connelly, W.E. Harris, A. Mok, J.S. Mulchaey, R.G. Bower and A. Finoguenov: Do group dynamics play a role in the evolution of member galaxies?. *Mon. Not. R. Astron. Soc.* 435, 1715-1726 (2013).
- Hurley, K., V.D. Pal'shin, R.L. Aptekar, S.V. Golenetskii, D.D. Frederiks, E.P. Mazets, D.S. Svinkin, M.S. Briggs, V. Connaughton, C. Meegan, J. Goldsten, W. Boynton, C. Fellows, K. Harshman, I.G. Mitrofanov, D.V. Golovin, A.S. Kozyrev, M.L. Litvak, A.B. Sanin, A. Rau, A. von Kienlin, X. Zhang, K. Yamaoka, Y. Fukazawa, Y. Hanabata, M. Ohno, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makiyama, S. Barthelmy, T. Cline, N. Gehrels, J. Cummings, H.A. Krimm, D.M. Smith, E. Del Monte, M. Feroci and M. Marisaldi: The Interplanetary Network Supplement to the Fermi GBM Catalog of Cosmic Gamma-Ray Bursts. *Ap. J. Supp. Ser.* 207, 39 (2013).
- Hönig, S.F., M. Kishimoto, K.R.W. Tristram, M.A. Prieto, P. Gandhi, D. Asmus, R. Antonucci, L. Burtscher, W.J. Duschl and G. Weigelt: Dust in the Polar Region as a Major Contributor to the Infrared Emission of Active Galactic Nuclei. *Ap. J.* 771, 87 (2013).
- Ibar, E., D. Sobral, P.N. Best, R.J. Ivison, I. Smail, V. Arumugam, S. Berta, M. Béthermin, J. Bock, A. Cava, A. Conley, D. Farrah, J. Geach, S. Ikarashi, K. Kohno, E. Le Floch, D. Lutz, G. Magdis, B. Magnelli, G. Marsden, S.J. Oliver, M.J. Page, F. Pozzi, L. Riguccini, B. Schulz, N. Seymour, A.J. Smith, M. Symeonidis, L. Wang, J. Wardlow and M. Zemcov: Herschel reveals the obscured star formation in HiZELS H $\alpha$  emitters at  $z = 1.47$ . *Mon. Not. R. Astron. Soc.* 434, 3218-3235 (2013).
- Ilbert, O., H.J. McCracken, O. Le Fèvre, P. Capak, J. Dunlop, A. Karim, M.A. Renzini, K. Caputi, S. Boissier, S. Arnouts, H. Aussel, J. Comparat, Q. Guo, P. Hudelot, J. Kartaltepe, J.P. Kneib, J.K. Krogager, E. Le Floch, S. Lilly, Y. Mellier, B. Milvang-Jensen, T. Moutard, M. Onodera, J. Richard, M. Salvato, D.B. Sanders, N. Scoville, J.D. Silverman, Y. Taniguchi, L. Tasca, R. Thomas, S. Toft, L. Tresse, D. Vergani, M. Wolk and A. Zirm: Mass assembly in quiescent and star-forming galaxies since  $z \approx 4$  from UltraVISTA. *Astron. Astrophys.* 556, A55 (2013).
- Iribarrem, A., P. Andreani, C. Gruppioni, S. February, M.B. Ribeiro, S. Berta, E. Le Floch, B. Magnelli, R. Nordon, P. Popesso, F. Pozzi and L. Riguccini: Cosmological model dependence of the galaxy luminosity function: far-infrared results in the Lemaître-Tolman-Bondi model. *Astron. Astrophys.* 558, A15 (2013).
- Isbary, G., J.L. Zimmermann, T. Shimizu, Y.-F. Li, G.E. Morfill, H.M. Thomas, B. Steffes, J. Heinlin, S. Karrer and W. Stolz: Non-thermal plasma-more than five years of clinical experience. *Clinical Plasma Medicine*, 1-5 (2013).
- Isbary, G., T. Shimizu, Y.-F. Li, W. Stolz, H.M. Thomas, G.E. Morfill and J.L. Zimmermann: Cold atmospheric plasma devices for medical issues. *Expert Review of Medical Devices*, 10(3), 367-377 (2013).
- Isern, J., P. Jean, E. Bravo, R. Diehl, J. Knödseder, A. Do-

- mingo, A. Hirschmann, P. Hoeflich, F. Lebrun, M. Renaud, S. Soldi, N. Elias-Rosa, M. Hernanz, B. Kulebi, X. Zhang, C. Badenes, I. Domínguez, D. Garcia-Senz, C. Jordi, G. Lichti, G. Vedrenne and P. Von Ballmoos: Observation of SN2011fe with INTEGRAL. I. Pre-maximum phase. *Astron. Astrophys.* 552, A97 (2013).
- Isokoski, K., S. Bottinelli and E.F. van Dishoeck: Chemistry of massive young stellar objects with a disk-like structure. *Astron. Astrophys.* 554, A100 (2013).
- Ivlev, A.V.: Coulomb expansion: Analytical solutions. *Physical Review E* 87, 025102 (2013).
- Iyudin, A.F., V.V. Bogomolov, S.I. Svertilov, I.V. Yashin, G.F. Smoot III, J. Greiner and A. von Kienlin: Characteristics of Position Sensitive Detector Pixels Based on Promising Inorganic Scintillators LaBr<sub>3</sub>:Ce and CeBr<sub>3</sub>. *Instruments and Experimental Techniques* 56, 640-648 (2013).
- Ikiewicz, K., P. Wychudzki, C. Gałan, M. Gładkowski, P. Dobierski, A. Karska, M. Wićcek, T. Tomov and M. Mikołajewski: Photometric observations of Epsilon Aurigae during the eclipse of 2009-2011. *Advances in Astronomy and Space Physics* 3, 23-28 (2013).
- Jaffe, T.R., K.M. Ferrière, A.J. Banday, A.W. Strong, E. Orlando, J.F. Macías-Pérez, L. Fauvet, C. Combet and E. Falgarone: Comparing polarized synchrotron and thermal dust emission in the Galactic plane. *Mon. Not. R. Astron. Soc.* 431, 683-694 (2013).
- Jardel, J.R., K. Gebhardt, M.H. Fabricius, N. Drory and M.J. Williams: Measuring Dark Matter Profiles Non-Parametrically in Dwarf Spheroidals: An Application to Draco. *Ap. J.* 763, 91 (2013).
- Jendrysik, C., L. Andrićek, G. Liemann, H.-G. Moser, J. Ninković, R. Richter and F. Schopper: Characterization of the first prototypes of Silicon Photomultipliers with bulk-integrated quench resistor fabricated at MPI semiconductor laboratory. *Nucl. Instrum. Methods Phys. Res. (A)* 718, 262-265 (2013).
- Johansson, J., D. Thomas, J. Pforr, C. Maraston, R.C. Nichol, M. Smith, H. Lampeitl, A. Beifiori, R.R. Gupta and D.P. Schneider: SN Ia host galaxy properties from Sloan Digital Sky Survey-II spectroscopy. *Mon. Not. R. Astron. Soc.* 435, 1680-1700 (2013).
- Johnson, J.L., V.C. Dalla and S. Khochfar: The First Billion Years project: the impact of stellar radiation on the co-evolution of Populations II and III. *Mon. Not. R. Astron. Soc.* 428, 1857-1872 (2013).
- Johnstone, D., B. Hendricks, G.J. Herczeg and S. Bruderer: Continuum Variability of Deeply Embedded Protostars as a Probe of Envelope Structure. *Ap. J.* 765, 133 (2013).
- Juneau, S., M. Dickinson, F. Bournaud, D.M. Alexander, E. Daddi, J.R. Mullaney, B. Magnelli, J.S. Kartaltepe, H.S. Hwang, S.P. Willner, A.L. Coil, D.J. Rosario, J.R. Trump, B.J. Weiner, C.N.A. Willmer, M.C. Cooper, D. Elbaz, S.M. Faber, D.T. Frayer, D.D. Kocevski, E.S. Laird, J.A. Monkiewicz, K. Nandra, J.A. Newman, S. Salim and M. Symeonidis: Widespread and Hidden Active Galactic Nuclei in Star-forming Galaxies at Redshift  $>0.3$ . *Ap. J.* 764, 176 (2013).
- Jurek, R.J., M.J. Drinkwater, K. Pimbblet, K. Glazebrook, C. Blake, S. Brough, M. Colless, C. Contreras, W. Couch, S. Croom, D. Croton, T.M. Davis, K. Forster, D. Gilbank, M. Gladders, B. Jelliffe, I.-h. Li, B. Madore, D.C. Martin, G.B. Poole, M. Pracy, R. Sharp, E. Wisnioski, D. Woods, T.K. Wyder and H.K.C. Yee: The WiggleZ Dark Energy Survey: star formation in UV-luminous galaxies from their luminosity functions. *Mon. Not. R. Astron. Soc.* 434, 257-281 (2013).
- Jørgensen, J.K., R. Visser, N. Sakai, E.A. Bergin, C. Brinch, D. Harsono, J.E. Lindberg, E.F. van Dishoeck, S. Yamamoto, S.E. Bisschop and M.V. Persson: A Recent Accretion Burst in the Low-mass Protostar IRAS 15398-3359: ALMA Imaging of Its Related Chemistry. *Ap. J. Lett.* 779, L22 (2013).
- Kampczyk, P., S.J. Lilly, L. de Ravel, ..., A. Bongiorno, K. Caputi, ..., B. Meneux, et al.: Environmental effects in the interaction and merging of galaxies in zCOSMOS. *Ap. J.* 762(1): 43, pp. 1-16 (2013).
- Karska, A., G.J. Herczeg, E.F. van Dishoeck, S.F. Wampfler, L.E. Kristensen, J.R. Goicoechea, R. Visser, B. Nisini, I. San José-García, S. Bruderer, P. Śniady, S. Doty, D. Fedele, U.A. Yildiz, A.O. Benz, E. Bergin, P. Caselli, F. Herpin, M.R. Hogerheijde, D. Johnstone, J.K. Jørgensen, R. Liseau, M. Tafalla, F. van der Tak and F. Wyrowski: Water in star-forming regions with Herschel (WISH). III. Far-infrared cooling lines in low-mass young stellar objects. *Astron. Astrophys.* 552, A141 (2013).
- Kartavykh, Y.Y., W. Dröge and B. Klecker: Bimodal fluxes of near-relativistic electrons during the onset of solar particle events. *J. Geophys. Res. (Space Phys.)* 118, 4005-4020 (2013).
- Kavanagh, P.J., M. Sasaki, S.D. Points, M.D. Filipović, P. Maggi, L.M. Bozzetto, E.J. Crawford, F. Haberl and W. Pietsch: Multiwavelength study of the newly confirmed supernova remnant M33N19 in the Large Magellanic Cloud. *Astron. Astrophys.* 549, A99 (2013).
- Kazin, E.A., A.G. Sánchez, A.J. Cuesta, F. Beutler, C.-H. Chuang, D.J. Eisenstein, M. Manera, N. Padmanabhan, W.J. Percival, F. Prada, A.J. Ross, H.-J. Seo, J. Tinker, R. Tojeiro, X. Xu, J. Brinkmann, B. Joel, R.C. Nichol, D.J. Schlegel, D.P. Schneider and D. Thomas: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: measuring  $H(z)$  and  $DA(z)$  at  $z = 0.57$  with clustering wedges. *Mon. Not. R. Astron. Soc.* 435, 64-86 (2013).
- Khrapak, A.G. and S.A. Khrapak: Energy of vacancy formation in the continuum matter model. *Low Temperature Physics* 39, 465-467 (2013).
- Khrapak, S.A.: Practical expression for an effective ion-neutral collision frequency in flowing plasmas of some noble gases. *J. Plasma Phys.* 79, 1123-1124 (2013).
- Khrapak, S.A., M.H. Thoma, M. Chaudhuri, G.E. Morfill, A.V. Zobnin, A.D. Usachev, O.F. Petrov and V.E. Fortov: Particle flows in a dc discharge in laboratory and microgravity conditions. *Physical Review E* 87, 063109 (2013).
- Khrapak, S.A.: Effective Coulomb logarithm for one component plasma. *Phys. Plasmas* 20, 054501 (2013).

- Khrapak, S.A.: Electron and ion thermal forces in complex (dusty) plasmas. *Phys. Plasmas* 20, 013703 (2013).
- King, A.L., J.M. Miller, K. Gültekin, D.J. Walton, A.C. Fabian, C.S. Reynolds and K. Nandra: What is on Tap? The Role of Spin in Compact Objects and Relativistic Jets. *Ap. J.* 771, 84 (2013).
- Kirkpatrick, A., A. Pope, V. Charmandaris, E. Daddi, D. Elbaz, H.S. Hwang, M. Pannella, D. Scott, B. Altieri, H. Aussel, D. Coia, H. Dannerbauer, K. Dasyra, M. Dickinson, J. Kartaltepe, R. Leiton, G. Magdis, B. Magnelli, P. Popesso and I. Valtchanov: GOODS-Herschel: Separating High-redshift Active Galactic Nuclei and Star-forming Galaxies Using Infrared Color Diagnostics. *Ap. J.* 763, 123 (2013).
- Kiss, C., G. Szabó, J. Horner, B.C. Conn, T.G. Müller, E. Vilenius, K. Sárneczky, L.L. Kiss, M. Bannister, D. Bayliss, A. Pál, S. Góbi, E. Verebélyi, E. Lellouch, P. Santos-Sanz, J.L. Ortiz, R. Duffard and N. Morales: A portrait of the extreme solar system object 2012 DR30. *Astron. Astrophys.* 555, A3 (2013).
- Klaassen, P.D., A. Juhasz, G.S. Mathews, J.C. Mottram, I. De Gregorio-Monsalvo, E.F. van Dishoeck, S. Takahashi, E. Akiyama, E. Chapillon, D. Espada, A. Hales, M.R. Hogerheijde, M. Rawlings, M. Schmalzl and L. Testi: ALMA detection of the rotating molecular disk wind from the young star HD 163296. *Astron. Astrophys.* 555, A73 (2013).
- Knapek, C.A., C. Durniak, D. Samsonov and G.E. Morfill: Scale-Free Behavior of a 2D Complex Plasma During Rapid Cooling. *Phys. Rev. Lett.* 110, 035001 (2013).
- Knobel, C., S.J. Lilly, K. Kovač, ..., A. Bongiorno, K. Caputi, et al.: The colors of central and satellite galaxies in zCOSMOS out to  $z \sim 0.8$  and implications for quenching. *Ap. J.* 769(1): 24 (2013).
- Kodric, M., A. Riffeser, U. Hopp, S. Seitz, J. Koppenhoefer, R. Bender, C. Goessl, J. Snigula, C.-H. Lee, C.-C. Ngeow, K.C. Chambers, E.A. Magnier, P.A. Price, W.S. Burgett, K.W. Hodapp, N. Kaiser and R.-P. Kudritzki: Properties of M31. II. A Cepheid Disk Sample Derived from the First Year of PS1 PAndromeda Data. *Astron. J.* 145, 106 (2013).
- Körntzer, J., V. Boxhammer, A. Schäfer, T. Shimizu, T.G. Klämpfl, Y.-F. Li, C. Welz, S. Schwenk-Zieger, G.E. Morfill, J.L. Zimmermann and J. Schlegel: Restoration of sensitivity in chemo — resistant glioma cells by cold atmospheric plasma. *PLoS One*, 8(5): e64498, pp. 1-10 (2013).
- Kok, Y., M.J. Ireland, J.G. Robertson, P.G. Tuthill, B.A. Warrington and W.J. Tango: Low-cost scheme for high-precision dual-wavelength laser metrology. *Appl. Opt.* 52, 2808-2814 (2013).
- Kok, Y., V. Maestro, M.J. Ireland, P.G. Tuthill and J.G. Robertson: Simulating a dual beam combiner at SUSI for narrow-angle astrometry. *Exp. Astron.* 36, 195-221 (2013).
- Kopp, M., S.A. Appleby, I. Achitouv and J. Weller: Spherical collapse and halo mass function in  $f(R)$  theories. *Physical Review D* 88, 084015 (2013).
- Koppenhoefer, J., R.P. Saglia, L. Fossati, Y. Lyubchik, M. Mugrauer, R. Bender, C.-H. Lee, A. Riffeser, P. Afonso, J. Greiner, T. Henning, R. Neuhäuser, I.A.G. Snellen, Y. Pavlenko, M. Verdugo and N. Vogt: A hot Jupiter transiting a mid-K dwarf found in the pre-OmegaCam Transit Survey. *Mon. Not. R. Astron. Soc.* 435, 3133-3147 (2013).
- Kordopatis, G., G. Gilmore, M. Steinmetz, ..., O. Gerhard, et al: The Radial Velocity Experiment (RAVE): Fourth Data Release. *Astron. J.* 146, 134 (2013).
- Kormendy, J. and R. Bender: The  $L \sim \sigma^8$  Correlation for Elliptical Galaxies with Cores: Relation with Black Hole Mass. *Ap. J. Lett.* 769, L5 (2013).
- Kovács, G., S. Hodgkin, B. Sipöcz, D. Pinfield, D. Barrado, J. Birkby, M. Cappetta, P. Cruz, J. Koppenhoefer, E.L. Martín, F. Murgas, B. Nefs, R. Saglia and J. Zendejas: A sensitivity analysis of the WFCAM Transit Survey for short-period giant planets around M dwarfs. *Mon. Not. R. Astron. Soc.* 433, 889-906 (2013).
- Koyama, Y., I. Smail, J. Kurk, J.E. Geach, D. Sobral, T. Kodama, F. Nakata, A.M. Swinbank, P.N. Best, M. Hayashi and K.-i. Tadaki: On the evolution and environmental dependence of the star formation rate versus stellar mass relation since  $z \sim 2$ . *Mon. Not. R. Astron. Soc.* 434, 423-436 (2013).
- Koyama, Y., T. Kodama, K.-i. Tadaki, M. Hayashi, M. Tanaka, I. Smail, I. Tanaka and J. Kurk: Massive starburst galaxies in a  $z = 2.16$  proto-cluster unveiled by panoramic H $\alpha$  mapping. *Mon. Not. R. Astron. Soc.* 428, 1551-1564 (2013).
- Krajnović, D., K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, M. Cappellari, R.L. Davies, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, H. Kuntschner, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A.-M. Weijmans and L.M. Young: The ATLAS<sup>3D</sup> project – XVII. Linking photometric and kinematic signatures of stellar discs in early-type galaxies. *Mon. Not. R. Soc.*, 432(3), 1768-1795 (2013).
- Krajnović, D., A.M. Karick, R.L. Davies, T. Naab, M. Sarzi, E. Emsellem, M. Cappellari, P. Serra, P.T. de Zeeuw, N. Scott, R.M. McDermid, A.-M. Weijmans, T.A. Davis, K. Alatalo, L. Blitz, M. Bois, M. Bureau, F. Bournaud, A. Crocker, P.-A. Duc, S. Khochfar, H. Kuntschner, R. Morganti, T. Oosterloo and L.M. Young: The ATLAS<sup>3D</sup> Project – XXIII. Angular momentum and nuclear surface brightness profiles hology. *Mon. Not. R. Soc.*, 433(4), 2812-2839 (2013).
- Krause, M., C. Charbonnel, T. Decressin, G. Meynet and N. Prantzos: Superbubble dynamics in globular cluster infancy. II. Consequences for secondary star formation in the context of self-enrichment via fast-rotating massive stars. *Astron. Astrophys.* 552, A121 (2013).
- Krause, M., K. Fierlinger, R. Diehl, A. Burkert, R. Voss and U. Ziegler: Feedback by massive stars and the emergence of superbubbles. I. Energy efficiency and Vishniac instabilities. *Astron. Astrophys.* 550, A49 (2013).
- Kreimeyer, K. and S. Veilleux: MMTF discovery of giant ionization cones in MR 2251–178: implications for quasar radiative feedback. *Ap. J. Letters* 772(1): L11, pp. 1-6 (2013).
- Kretschmer, K., R. Diehl, M. Krause, A. Burkert, K. Fierlinger, O. Gerhard, J. Greiner and W. Wang: Kinematics

of massive star ejecta in the Milky Way as traced by  $^{26}\text{Al}$ . *Astron. Astrophys.* 559, A99 (2013).

Kristensen, L.E., E.F. van Dishoeck, A.O. Benz, S. Bruderer, R. Visser and S.F. Wampfler: Observational evidence for dissociative shocks in the inner 100 AU of low-mass protostars using Herschel-HIFI. *Astron. Astrophys.* 557, A23 (2013).

Krühler, T., C. Ledoux, J.P.U. Fynbo, P.M. Vreeswijk, S. Schmidl, D. Malesani, L. Christensen, A. De Cia, J. Hjorth, P. Jakobsson, D.A. Kann, L. Kaper, S.D. Vergani, P.M.J. Afonso, S. Covino, A. de Ugarte Postigo, V. D'Elia, R. Filgas, P. Goldoni, J. Greiner, O.E. Hartoog, B. Milvang-Jensen, M. Nardini, S. Piranomonte, A. Rossi, R. Sánchez-Ramírez, P. Schady, S. Schulze, V. Sudilovsky, N.R. Tanvir, G. Tagliaferri, D.J. Watson, K. Wiersema, R.A.M.J. Wijers and D. Xu: Molecular hydrogen in the damped Lyman  $\alpha$  system towards GRB 120815A at  $z = 2.36$ . *Astron. Astrophys.* 557, A18 (2013).

Kurk, J., A. Cimatti, E. Daddi, M. Mignoli, L. Pozzetti, M. Dickinson, M. Bolzonella, G. Zamorani, P. Cassata, G. Rodighiero, A. Franceschini, A. Renzini, P. Rosati, C. Halliday and S. Berta: GMASS ultradeep spectroscopy of galaxies at  $z \sim 2$ . VII. Sample selection and spectroscopy. *Astron. Astrophys.* 549, A63 (2013).

La Massa, S.M., C.M. Urry, E. Glikman, N. Cappelluti, F. Civano, A. Comastri, E. Treister, H. Böhringer, C. Cardamone, G. Chon, M. Kephart, S.S. Murray, G. Richards, N.P. Ross, J.S. Rozner and K. Schawinski: Finding rare AGN: X-ray number counts of Chandra sources in Stripe 82. *Mon. Not. R. Astron. Soc.* 432, 1351-1360 (2013).

La Massa, S.M., C.M. Urry, N. Cappelluti, F. Civano, P. Ranalli, E. Glikman, E. Treister, G. Richards, D. Ballantyne, D. Stern, A. Comastri, C. Cardamone, K. Schawinski, H. Böhringer, G. Chon, S.S. Murray, P. Green and K. Nandra: Finding rare AGN: XMM-Newton and Chandra observations of SDSS Stripe 82. *Mon. Not. R. Astron. Soc.* 436, 3581-3601 (2013).

Landriau, M.: On the bispectrum of cosmic string seeded CMB fluctuations. *International Journal of Modern Physics D*, 22(9): 1350053, pp. 1-8 (2013).

Lanzuisi, G., F. Civano, M. Elvis, M. Salvato, G. Hasinger, C. Vignali, G. Zamorani, T. Aldcroft, M. Brusa, A. Comastri, F. Fiore, A. Fruscione, R. Gilli, L.C. Ho, V. Mainieri, A. Merloni and A. Siemiginowska: The Chandra-COSMOS survey - IV. X-ray spectra of the bright sample. *Mon. Not. R. Astron. Soc.* 431, 978-996 (2013).

Leaman, R., K.A. Venn, A.M. Brooks, G. Battaglia, A.A. Cole, R.A. Ibata, M.J. Irwin, A.W. McConnachie, J.T. Mendel, E. Starkenburg and E. Tolstoy: The comparative chemical evolution of an isolated dwarf galaxy: a VLT and Keck spectroscopic survey of WLM. *Ap. J.* 767(2): 131, pp. 1-16 (2013).

Leaman, R., VandenBerg, D.A. and J.T. Mendel: The bifurcated age-metallicity relation of Milky Way globular clusters and its implications for the accretion history of the galaxy. *Mon. Not. R. Soc.*, 436(1), 122-135 (2013).

Lee, B., M. Giavalisco, C.C. Williams, Y. Guo, J. Lotz, A. van der Wel, H.C. Ferguson, S.M. Faber, A. Koekemo-

er, N. Grogin, D. Kocevski, C.J. Conselice, S. Wuyts, A. Dekel, J. Kartaltepe and E.F. Bell: CANDELS: The Correlation between Galaxy Morphology and Star Formation Activity at  $z \sim 2$ . *Ap. J.* 774, 47 (2013).

Lee, C.-H., M. Kodric, S. Seitz, A. Riffeser, J. Koppenhoefer, R. Bender, U. Hopp, C. Gössl, J. Snigula, W.S. Burgett, K.C. Chambers, H. Flewelling, K.W. Hodapp, N. Kaiser, R.-P. Kudritzki, P.A. Price, J.L. Tonry and R.J. Wainscoat: Properties of M31. III. Candidate Beat Cepheids from PS1 PAndromeda Data and Their Implication on Metallicity Gradient. *Ap. J.* 777, 35 (2013).

Lee, N., D.B. Sanders, C.M. Casey, N.Z. Scoville, C.-L. Hung, E. Le Floc'h, O. Ilbert, H. Aussel, P. Capak, J.S. Kartaltepe, I. Roseboom, M. Salvato, M. Aravena, S. Berta, J. Bock, S.J. Oliver, L. Riguccini and M. Symeonidis: Multi-wavelength SEDs of Herschel-selected Galaxies in the COSMOS Field. *Ap. J.* 778, 131 (2013).

Leja, J., P.G. van Dokkum, I. Momcheva, G. Brammer, R.E. Skelton, K.E. Whitaker, B.H. Andrews, M. Franx, M. Kriek, A. van der Wel, R. Bezanson, C. Conroy, N. Förster Schreiber, E. Nelson and S.G. Patel: Exploring the Chemical Link between Local Ellipticals and Their High-redshift Progenitors. *Ap. J. Lett.* 778, L24 (2013).

Lellouch, E., P. Santos-Sanz, P. Lacerda, M. Mommert, R. Duffard, J.L. Ortiz, T.G. Müller, S. Fornasier, J. Stansberry, C. Kiss, E. Vilenius, M. Mueller, N. Peixinho, R. Moreno, O. Groussin, A. Delsanti and A.W. Harris: "TNOs are Cool": A survey of the trans-Neptunian region. IX. Thermal properties of Kuiper belt objects and Centaurs from combined Herschel and Spitzer observations. *Astron. Astrophys.* 557, A60 (2013).

Lemze, D., M. Postman, S. Genel, H.C. Ford, I. Balestra, M. Donahue, D. Kelson, M. Nonino, A. Mercurio, A. Biviano, P. Rosati, K. Umetsu, D. Sand, A. Koekemoer, M. Meneghetti, P. Melchior, A.B. Newman, W.A. Bhatti, G.M. Voit, E. Medezinski, A. Zitrin, W. Zheng, T. Broadhurst, M. Bartelmann, N. Benitez, R. Bouwens, L. Bradley, D. Coe, G. Graves, C. Grillo, L. Infante, Y. Jimenez-Teja, S. Jouvel, O. Lahav, D. Maoz, J. Merten, A. Molino, J. Moustakas, L. Moustakas, S. Ogaz, M. Scodreggio and S. Seitz: The Contribution of Halos with Different Mass Ratios to the Overall Growth of Cluster-sized Halos. *Ap. J.* 776, 91 (2013).

Leurini, S., F. Wyrowski, F. Herpin, F. van der Tak, R. Güsten and E.F. van Dishoeck: The distribution of warm gas in the G327.3-0.6 massive star-forming region. *Astron. Astrophys.* 550, A10 (2013).

Li, X., C. Arasa, M.C. van Hemert and E.F. van Dishoeck: Effects of reagent rotation and vibration on  $\text{H} + \text{OH}(\nu, j) \rightarrow \text{O} + \text{H}_2$ . *Journal of Physical Chemistry A*, 117(48), 12889-12896 (2013).

Li, X., A.N. Heays, R. Visser, W. Ubachs, B.R. Lewis, S.T. Gibson and E.F. van Dishoeck: Photodissociation of interstellar  $\text{N}_2$ . *Astron. Astrophys.* 555, A14 (2013).

Lis, D.C., E.A. Bergin, P. Schilke and E.F. van Dishoeck: Ortho-to-Para Ratio in Interstellar Water on the Sightline toward Sagittarius B2(N). *Journal of Physical Chemistry A* 117, 9661-9665 (2013).

- Lisse, C.M., D.J. Christian, S.J. Wolk, K. Dennerl, D. Bodewits, M.R. Combi, S.T. Lepri, T.H. Zurbuchen, J.Y. Li, N. Dello-Russo, M.J.S. Belton and M.M. Knight: Chandra ACIS-S imaging spectroscopy of anomalously faint X-ray emission from Comet 103P/Hartley 2 during the EPOXI encounter. *Icarus* 222, 752-765 (2013).
- Liu, F.S., Y. Guo, D.C. Koo, J.R. Trump, G. Barro, H. Yesuf, S.M. Faber, M. Giavalisco, P. Cassata, A.M. Koekemoer, L. Pentericci, M. Castellano, E. Cheung, S. Mao, X.Y. Xia, N.A. Grogin, N.P. Hathi, K.-H. Huang, D. Kocevski, E.J. McGrath and S. Wuyts: Serendipitous Discovery of a Massive cD Galaxy at  $z = 1.096$ : Implications for the Early Formation and Late Evolution of cD Galaxies. *Ap. J.* 769, 147 (2013).
- Liu, T., P. Tozzi, E. Tundo, A. Moretti, J.-X. Wang, P. Rosati and F. Guglielmetti: EXSdetect: an end-to-end software for extended source detection in X-ray images: application to Swift-XRT data. *Astron. Astrophys.* 549, A143 (2013).
- Liu, Y., L.M. Kistler, C.G. Mouikis, B. Klecker and I. Dandouras: Heavy ion effects on substorm loading and unloading in the Earth's magnetotail. *J. Geophys. Res. (Space Phys.)* 118, 2101-2112 (2013).
- Lo Faro, B., A. Franceschini, M. Vaccari, L. Silva, G. Rodighiero, S. Berta, J. Bock, D. Burgarella, V. Buat, A. Cava, D.L. Clements, A. Cooray, D. Farrah, A. Feltre, E.A. González Solares, P. Hurley, D. Lutz, G. Magdis, B. Magnelli, L. Marchetti, S.J. Oliver, M.J. Page, P. Popesso, F. Pozzi, D. Rigopoulou, M. Rowan-Robinson, I.G. Roseboom, D. Scott, A.J. Smith, M. Symeonidis, L. Wang and S. Wuyts: The Complex Physics of Dusty Star-forming Galaxies at High Redshifts as Revealed by Herschel and Spitzer. *Ap. J.* 762, 108 (2013).
- Loh, N.D., D. Starodub, L. Lomb, C.Y. Hampton, A.V. Martin, R.G. Sierra, A. Barty, A. Aquila, J. Schulz, J. Steinbrener, R.L. Shoeman, S. Kassemeyer, C. Bostedt, J. Bozek, S.W. Epp, B. Erk, R. Hartmann, D. Rolles, A. Rudenko, B. Rudek, L. Foucar, N. Kimmel, G. Weidenspointner, G. Hauser, P. Holl, E. Pedersoli, M. Liang, M.S. Hunter, L. Gumprecht, N. Coppola, C. Wunderer, H. Graafsma, F.R.N.C. Maia, T. Ekeberg, M. Hantke, H. Fleckenstein, H. Hirsemann, K. Nass, T.A. White, H.J. Tobias, G.R. Farquar, W.H. Benner, S. Hau-Riege, C. Reich, A. Hartmann, H. Soltau, S. Marchesini, S. Bajt, M. Barthelmess, L. Strüder, J. Ullrich, P. Bucksbaum, M. Frank, I. Schlichting, H.N. Chapman and M.J. Bogan: Sensing the wavefront of x-ray free-electron lasers using aerosol spheres. *Optics Express* 21, 12385 (2013).
- Longobardi, A., M. Arnaboldi, O. Gerhard, L. Coccato, S. Okamura and K.C. Freeman: The planetary nebula population in the halo of M 87. *Astron. Astrophys.* 558, A42 (2013).
- Lotz, J.M., C. Papovich, S.M. Faber, H.C. Ferguson, N. Grogin, Y. Guo, D. Kocevski, A.M. Koekemoer, K.-S. Lee, D. McIntosh, I. Momcheva, G. Rudnick, A. Saintonge, K.-V. Tran, A. van der Wel and C. Willmer: Caught in the Act: The Assembly of Massive Cluster Galaxies at  $z = 1.62$ . *Ap. J.* 773, 154 (2013).
- Lusso, E., J.F. Hennawi, A. Comastri, G. Zamorani, G.T. Richards, C. Vignali, E. Treister, K. Schawinski, M. Salvato and R. Gilli: The Obscured Fraction of Active Galactic Nuclei in the XMM-COSMOS Survey: A Spectral Energy Distribution Perspective. *Ap. J.* 777, 86 (2013).
- Madden, S.C., A. Rémy-Ruyer, M. Galametz, D. Cormier, V. Leboutteiller, F. Galliano, S. Hony, G.J. Bendo, M.W.L. Smith, M. Pohlen, H. Roussel, M. Sauvage, R. Wu, E. Sturm, A. Poglitsch, A. Contursi, V. Doublier, M. Baes, M.J. Barlow, A. Boselli, M. Boquien, L.R. Carlson, L. Ciesla, A. Cooray, L. Cortese, I. de Looze, J.A. Irwin, K. Isaak, J. Kamenetzky, O.Ł. Karczewski, N. Lu, J.A. MacHattie, B. O'Halloran, T.J. Parkin, N. Rangwala, M.R.P. Schirm, B. Schulz, L. Spinoglio, M. Vaccari, C.D. Wilson and H. Wozniak: An Overview of the Dwarf Galaxy Survey. *Publ. Astron. Soc. Pac.* 125, 600-635 (2013).
- Maggi, P., F. Haberl, R. Sturm, W. Pietsch, A. Rau, J. Greiner, A. Udalski and M. Sasaki: Discovery of a 168.8 s X-ray pulsar transiting in front of its Be companion star in the Large Magellanic Cloud. *Astron. Astrophys.* 554, A1 (2013).
- Magliocchetti, M., P. Popesso, D. Rosario, D. Lutz, H. Aussel, S. Berta, B. Altieri, P. Andreani, J. Cepa, H. Castañeda, A. Cimatti, D. Elbaz, R. Genzel, A. Grazian, C. Gruppioni, O. Ilbert, E. Le Floch, B. Magnelli, R. Maiolino, R. Nordon, A. Poglitsch, F. Pozzi, L. Riguccini, G. Rodighiero, M. Sanchez-Portal, P. Santini, N.M. Förster Schreiber, E. Sturm, L. Tacconi and I. Valtchanov: The Herschel-PEP survey: evidence for downsizing in the hosts of dusty star-forming systems. *Mon. Not. R. Astron. Soc.* 433, 127-137 (2013).
- Magnelli, B., P. Popesso, S. Berta, F. Pozzi, D. Elbaz, D. Lutz, M. Dickinson, B. Altieri, P. Andreani, H. Aussel, M. Béthermin, A. Bongiovanni, J. Cepa, V. Charmandaris, R.-R. Chary, A. Cimatti, E. Daddi, N.M. Förster Schreiber, R. Genzel, C. Gruppioni, M. Harwit, H.S. Hwang, R.J. Ivison, G. Magdis, R. Maiolino, E. Murphy, R. Nordon, M. Pannella, A. Pérez García, A. Poglitsch, D. Rosario, M. Sanchez-Portal, P. Santini, D. Scott, E. Sturm, L.J. Tacconi and I. Valtchanov: The deepest Herschel-PACS far-infrared survey: number counts and infrared luminosity functions from combined PEP/GOODS-H observations. *Astron. Astrophys.* 553, A132 (2013).
- Maio, U., M. Dotti, M. Petkova, A. Perego and M. Volontieri: Effects of circumnuclear disk gas evolution on the spin of central black holes. *Ap. J.* 767(1): 37, pp. 1-14 (2013).
- Maio, U., B. Ciardi and V. Müller: Simulating extremely metal-poor gas and DLA metal content at redshift  $z \approx 7$ . *Mon. Not. R. Soc.*, 435(2), 1443-1450 (2013).
- Malek, K., A. Solarz, A. Pollo, A. Fritz, B. Garilli, M. Scodreggio, A. Iovino, B.R. Granett, U. Abbas, C. Adami, S. Arnouts, J. Bel, M. Bolzonella, D. Bottini, E. Branchini, A. Cappi, J. Coupon, O. Cucciati, I. Davidzon, G. De Lucia, S. de la Torre, P. Franzetti, M. Fumana, L. Guzzo, O. Ilbert, J. Krywult, V. Le Brun, O. Le Fevre, D. Maccagni, F. Marulli, H.J. McCracken, L. Paioro, M. Polletta, H. Schlegelhauser, L.A.M. Tasca, R. Tojeiro, D. Vergani, A. Zanichelli, A. Burden, C. Di Porto, A. Marchetti, C. Marinoni, Y. Mellier, L. Moscardini, R.C. Nichol, J.A. Peacock, W.J. Percival, S. Phleps, M. Wolk and G. Zamorani: The VIMOS Public Extragalactic Redshift Survey (VIPERS). A support vector

machine classification of galaxies, stars, and AGNs. *Astron. Astrophys.* 557, A16 (2013).

Mana, A., T. Giannantonio, J. Weller, B. Hoyle, G. Hütsi and B. Sartoris: Combining clustering and abundances of galaxy clusters to test cosmology and primordial non-Gaussianity. *Mon. Not. R. Astron. Soc.* 434, 684-695 (2013).

Manera, M., R. Scoccimarro, W.J. Percival, L. Samushia, C.K. McBride, A.J. Ross, R.K. Sheth, M. White, B.A. Reid, A.G. Sánchez, R. de Putter, X. Xu, A.A. Berlind, J. Brinkmann, C. Maraston, B. Nichol, F. Montesano, N. Padmanabhan, R.A. Skibba, R. Tojeiro and B.A. Weaver: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: a large sample of mock galaxy catalogues. *Mon. Not. R. Astron. Soc.* 428, 1036-1054 (2013).

Maraston, C., J. Pforr, B.M. Henriques, D. Thomas, D. Wake, J.R. Brownstein, D. Capozzi, J. Tinker, K. Bundy, R.A. Skibba, A. Beifiori, R.C. Nichol, E. Edmondson, D.P. Schneider, Y. Chen, K.L. Masters, O. Steele, A.S. Bolton, D.G. York, B.A. Weaver, T. Higgs, D. Bizyaev, H. Brewington, E. Malanushenko, V. Malanushenko, S. Snedden, D. Oravetz, K. Pan, A. Shelden and A. Simmons: Stellar masses of SDSS-III/BOSS galaxies at  $z \sim 0.5$  and constraints to galaxy formation models. *Mon. Not. R. Astron. Soc.* 435, 2764-2792 (2013).

Marchetti, A., B.R. Granett, L. Guzzo, ..., S. Phleps, et al.: The VIMOS Public Extragalactic Redshift Survey (VIPERS): spectral classification through principal component analysis. *Mon. Not. R. Astron. Soc.* 428, 1424-1437 (2013).

Martig, M., A.F. Crocker, F. Bournaud, E. Emsellem, J.M. Gabor, K. Alatalo, L. Blitz, M. Bois, M. Bureau, M. Cappellari, R.L. Davies, T.A. Davis, A. Dekel, P.T. de Zeeuw, A.-P. Duc, J. Falcón-Barroso, S. Khochfar, D. Krajnović, H. Kuntschner, R. Morganti, R.M. McDermid, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, K. Shapiro, R. Teyssier, A.-M. Weijman and L.M. Young: The ATLAS<sup>3D</sup> project – XXII. Low-efficiency star formation in early-type galaxies: hydrodynamic models and observations. *Mon. Not. R. Soc.*, 432(3), 1914-1927 (2013).

Martinez-Valpuesta, I. and O. Gerhard: Metallicity Gradients Through Disk Instability: A Simple Model for the Milky Way's Boxy Bulge. *Ap. J. Lett.* 766, L3 (2013).

Marulli, F., M. Bolzonella, E. Branchini, ..., S. Phleps, et al.: The VIMOS Public Extragalactic Redshift Survey (VIPERS). Luminosity and stellar mass dependence of galaxy clustering at  $0.5 < z < 1.1$ . *Astron. Astrophys.* 557, A17 (2013).

Marín, F.A., C. Blake, G.B. Poole, C.K. McBride, S. Brough, M. Colless, C. Contreras, W. Couch, D.J. Croton, S. Croom, T. Davis, M.J. Drinkwater, K. Forster, D. Gilbank, M. Gladders, K. Glazebrook, B. Jelliffe, R.J. Jurek, I.-h. Li, B. Madore, D.C. Martin, K. Pimbblet, M. Pracy, R. Sharp, E. Wisnioski, D. Woods, T.K. Wyder and H.K.C. Yee: The WiggleZ Dark Energy Survey: constraining galaxy bias and cosmic growth with three-point correlation functions. *Mon. Not. R. Astron. Soc.* 432, 2654-2668 (2013).

Maseda, M.V., A. van der Wel, E. da Cunha, H.-W. Rix, C. Pacifici, I. Momcheva, G.B. Brammer, M. Franx, P. van Dokkum, E.F. Bell, M. Fumagalli, N.A. Grogin, D.D. Kocevski, A.M. Koekemoer, B.F. Lundgren, D. Marchesini, E.J. Nelson, S.G. Patel, R.E. Skelton, A.N. Straughn, J.R. Trump, B.J. Weiner, K.E. Whitaker and S. Wuyts: Confirmation of Small Dynamical and Stellar Masses for Extreme Emission Line Galaxies at  $z \sim 2$ . *Ap. J. Lett.* 778, L22 (2013).

Mathews, G.S., P.D. Klaassen, A. Juhász, D. Harsono, E. Chapillon, E.F. van Dishoeck, D. Espada, I. de Gregorio-Monsalvo, A. Hales, M.R. Hogerheijde, J.C. Mottram, M.G. Rawlings, S. Takahashi and L. Testi: ALMA imaging of the CO snowline of the HD 163296 disk with DCO<sup>+</sup>. *Astron. Astrophys.* 557, A132 (2013).

Matsuoka, K., J.D. Silverman, M. Schramm, C.L. Steinhardt, T. Nagao, J. Kartaltepe, D.B. Sanders, E. Treister, G. Hasinger, M. Akiyama, K. Ohta, Y. Ueda, A. Bongiorno, W.N. Brandt, M. Brusa, P. Capak, F. Civano, A. Comastri, M. Elvis, S.J. Lilly, V. Mainieri, D. Masters, M. Mignoli, M. Salvato, J.R. Trump, Y. Taniguchi, G. Zamorani, D.M. Alexander and K. Schawinski: A Comparative Analysis of Virial Black Hole Mass Estimates of Moderate-luminosity Active Galactic Nuclei Using Subaru/FMOS. *Ap. J.* 771, 64 (2013).

Mazzalay, X., A. Rodríguez-Ardila, S. Komossa and P.J. McGregor: Resolving the coronal line region of NGC 1068 with near-infrared integral field spectroscopy. *Mon. Not. R. Astron. Soc.* 430, 2411-2426 (2013).

Mazzalay, X., R.P. Saglia, P. Erwin, M.H. Fabricius, S.P. Rusli, J. Thomas, R. Bender, M. Opitsch, N. Nowak and M.J. Williams: Molecular gas in the centre of nearby galaxies from VLT/SINFONI integral field spectroscopy - I. Morphology and mass inventory. *Mon. Not. R. Astron. Soc.* 428, 2389-2406 (2013).

McCormick, A., S. Veilleux and D.S.N. Rupke: Dusty winds: extraplanar polycyclic aromatic hydrocarbon features of nearby galaxies. *Ap. J.* 774(2): 126, pp. 1-17 (2013).

McDonald, M., B. Benson, S. Veilleux, M.W. Bautz and C.L. Reichardt: An HST/WFC3-UVIS view of the starburst in the cool core of the Phoenix cluster. *Ap. J. Letters* 765(2): L37, pp. 1-6 (2013).

McDonald, M., B.A. Benson, A. Vikhlinin, ..., J.J. Mohr, et al.: The Growth of Cool Cores and Evolution of Cooling Properties in a Sample of 83 Galaxy Clusters at  $0.3 < z < 1.2$  Selected from the SPT-SZ Survey. *Ap. J.* 774, 23 (2013).

Medezinski, E., K. Umetsu, M. Nonino, ..., S. Seitz, et al.: CLASH: Complete Lensing Analysis of the Largest Cosmic Lens MACS J0717.5+3745 and Surrounding Structures. *Ap. J.* 777, 43 (2013).

Meeus, G., C. Salyk, S. Bruderer, D. Fedele, K. Maaskant, N.J. Evans, E.F. van Dishoeck, B. Montesinos, G. Herczeg, J. Bouwman, J.D. Green, C. Dominik, T. Henning and S. Vicente: DIGIT survey of far-infrared lines from protoplanetary discs. II. CO. *Astron. Astrophys.* 559, A84 (2013).

- Meixner, M., P. Panuzzo, J. Roman-Duval, ..., A. Poglitsch, et al.: The HERSCHEL Inventory of The Agents of Galaxy Evolution in the Magellanic Clouds, a Herschel Open Time Key Program. *Astron. J.* 146, 62 (2013).
- Melnyk, O., M. Plionis, A. Elyiv, M. Salvato, L. Chiappetti, N. Clerc, P. Gandhi, M. Pierre, T. Sadibekova, A. Pospieszalska-Surdej and J. Surdej: Classification and environmental properties of X-ray selected point-like sources in the XMM-LSS field. *Astron. Astrophys.* 557, A81 (2013).
- Mendel, J.T., L. Simard, S.L. Ellison and D.R. Patton: Towards a physical picture of star formation quenching: the photometric properties of recently quenched galaxies in the Sloan Digital Sky Survey. *Mon. Not. R. Soc.*, 429(3), 2212-2227 (2013).
- Middelberg, E., A.T. Deller, R.P. Norris, S. Fotopoulou, M. Salvato, J.S. Morgan, W. Briske, D. Lutz and E. Rovilos: Mosaiced wide-field VLBI observations of the Lockman Hole/XMM. *Astron. Astrophys.* 551, A97 (2013).
- Middleton, M.J., J.C.A. Miller-Jones, S. Markoff, R. Fender, M. Henze, N. Hurley-Walker, A.M.M. Scaife, T.P. Roberts, D. Walton, J. Carpenter, J.-P. Macquart, G.C. Bower, M. Gurwell, W. Pietsch, F. Haberl, J. Harris, M. Daniel, J. Miah, C. Done, J.S. Morgan, H. Dickinson, P. Charles, V. Burwitz, M. Della Valle, M. Freyberg, J. Greiner, M. Hernanz, D.H. Hartmann, D. Hatzidimitriou, A. Riffeser, G. Sala, S. Seitz, P. Reig, A. Rau, M. Orío, D. Titterton and K. Grainge: Bright radio emission from an ultraluminous stellar-mass microquasar in M 31. *Nature* 493, 187-190 (2013).
- Miloch, W.J., S.V. Vladimirov and V.V. Yaroshenko: Complex wakes behind objects in multispecies plasmas. *EPL (Europhysics Letters)* 101, 15001 (2013).
- Mitic, S., B.A. Klumov, S.A. Khrapak and G.E. Morfill: Three dimensional complex plasma structures in a combined radio frequency and direct current discharge. *Phys. Plasmas* 20, 043701 (2013).
- Mitra, A., Y.-F. Li, T.G. Klämpfl, T. Shimizu, J. Jeon, G.E. Morfill and J.L. Zimmermann: Inactivation of surface-borne microorganisms and increased germination of seed specimen by cold atmospheric plasma. *Food and Bioprocess Technology*, 6(5) (2013).
- Mocanu, L.M., T.M. Crawford, J.D. Vieira, ..., J.J. Mohr, et al.: Extragalactic Millimeter-wave Point-source Catalog, Number Counts and Statistics from 771 deg<sup>2</sup> of the SPT-SZ Survey. *Ap. J.* 779, 61 (2013).
- Modest, H.I., C. Räth, A.J. Banday, G. Rossmanith, R. Sütterlin, S. Basak, J. Delabrouille, K.M. Górski and G.E. Morfill: Scale-dependent non-Gaussianities in the CMB data identified with Minkowski functionals and scaling indices. *Mon. Not. R. Astron. Soc.* 428, 551-562 (2013).
- Mohr, D.P., I. Stein, Th. Matzies and C.A. Knapik: Redundant robust topology optimization of truss. *Optimization and Engineering*, published online (<http://dx.doi.org/10.1007/s11081-013-9241-7>), 1-28 (2013).
- Mok, A., M.L. Balogh, S.L. McGee, D.J. Wilman, A. Finoguenov, M. Tanaka, S. Giodini, R.G. Bower, J.L. Connelly, A. Hou, J.S. Mulchaey and L.C. Parker: Efficient satellite quenching at  $z \sim 1$  from the GEEC2 spectroscopic survey of galaxy groups. *Mon. Not. R. Astron. Soc.* 431, 1090-1106 (2013).
- Monetti, R., J.M. Amigó, T. Aschenbrenner and W. Bunk: Permutation complexity of interacting dynamical systems. *European Physical Journal Special Topics* 222, 421-436 (2013).
- Monetti, R., W. Bunk, T. Aschenbrenner, S. Springer and J.M. Amigó: Information directionality in coupled time series using transcripts. *Physical Review E* 88, 022911 (2013).
- Morganti, L., O. Gerhard, L. Coccatto, I. Martinez-Valpuesta and M. Arnaboldi: Elliptical galaxies with rapidly decreasing velocity dispersion profiles: NMAGIC models and dark halo parameter estimates for NGC 4494. *Mon. Not. R. Astron. Soc.* 431, 3570-3588 (2013).
- Mottram, J.C., E.F. van Dishoeck, M. Schmalzl, L.E. Kristensen, R. Visser, M.R. Hogerheijde and S. Bruderer: Waterfalls around protostars. Infall motions towards Class 0/I envelopes as probed by water. *Astron. Astrophys.* 558, A126 (2013).
- Mountrichas, G., A. Georgakakis, A. Finoguenov, G. Erfanianfar, M.C. Cooper, A.L. Coil, E.S. Laird, K. Nandra and J.A. Newman: Measuring the dark matter halo mass of X-ray AGN at  $z \sim 1$  using photometric redshifts. *Mon. Not. R. Astron. Soc.* 430, 661-675 (2013).
- Muñoz-Darias, T., M. Coriat, D.S. Plant, G. Ponti, R.P. Fender and R.J.H. Dunn: Inclination and relativistic effects in the outburst evolution of black hole transients. *Mon. Not. R. Astron. Soc.* 432, 1330-1337 (2013).
- Mueller-Sanchez, F., M.A. Prieto, M. Mezcuca, R. Davies, M. Malkan and M. Elitzur: The Central Molecular Gas Structure in LINERs with Low-luminosity Active Galactic Nuclei: Evidence for Gradual Disappearance of the Torus. *Ap. J. Lett.* 763, L1, (2013).
- Murillo, N.M., S.-P. Lai, S. Bruderer, D. Harsono and E.F. van Dishoeck: A Keplerian disk around a Class 0 source: ALMA observations of VLA1623A. *Astron. Astrophys.* 560, A103 (2013).
- Murillo, N.M. and S.-P. Lai: Disentangling the entangled: observations and analysis of the triple non-coeval protostellar system VLA1623. *Ap. J. Letters*, 764(1): L15, pp. 1-7 (2013).
- Müller, A., V. Roccatagliata, T. Henning, D. Fedele, A. Pasquali, E. Caffau, M.V. Rodríguez-Ledesma, M. Mohler-Fischer, U. Seemann and R.J. Klement: Reanalysis of the FEROS observations of HIP 11952. *Astron. Astrophys.* 556, A3 (2013).
- Müller, T.G., T. Miyata, C. Kiss, M.A. Gurwell, S. Hasegawa, E. Vilenius, S. Sako, T. Kamizuka, T. Nakamura, K. Asano, M. Uchiyama, M. Konishi, M. Yoneda, T. Ootsubo, F. Usui, Y. Yoshii, M. Kidger, B. Altieri, R. Lorente, A. Pál, L. O'Rourke and L. Metcalfe: Physical properties of asteroid 308635 (2005 YU55) derived from multi-instrument infrared observations during a very close Earth approach. *Astron. Astrophys.* 558, A97 (2013).
- Najita, J.R., J.S. Carr, K.M. Pontoppidan, C. Salyk, E.F. van Dishoeck and G.A. Blake: The HCN-Water Ratio in

- the Planet Formation Region of Disks. *Ap. J.* 766, 134 (2013).
- Nastasi, A., M. Scodreggio, R. Fassbender, H. Böhringer, D. Pierini, M. Verdugo, B.M. Garilli and P. Franzetti: F-VIPGI: a new adapted version of VIPGI for FORS2 spectroscopy. Application to a sample of 16 X-ray selected galaxy clusters at  $0.6 \leq z \leq 1.2$ . *Astron. Astrophys.* 550, A9 (2013).
- Nelson, E.J., P.G. van Dokkum, I. Momcheva, G. Brammer, B. Lundgren, R.E. Skelton, K.E. Whitaker, E. Da Cunha, N. Förster Schreiber, M. Franx, M. Fumagalli, M. Kriek, I. Labbe, J. Leja, S. Patel, H.-W. Rix, K.B. Schmidt, A. van der Wel and S. Wuyts: The radial distribution of star formation in galaxies at  $z \sim 1$  from the 3D-HST survey. *Ap. J. Lett.* 763, 16-22 (2013).
- Newman, J.A., M.C. Cooper, M. Davis, S.M. Faber, A.L. Coil, P. Guhathakurta, D.C. Koo, A.C. Phillips, C. Conroy, A.A. Dutton, D.P. Finkbeiner, B.F. Gerke, D.J. Rosario, B.J. Weiner, C.N.A. Willmer, R. Yan, J.J. Harker, S.A. Kasin1, N.P. Konidakis, K. Lai, D.S. Madgwick, K.G. Noeske, G.D. Wirth, A.J. Connolly, N. Kaiser, E.N. Kirby, B.C. Lemaux, L. Lin, J.M. Lotz, G.A. Luppino, C. Marinoni, D.J. Matthews, A. Metevier and R.P. Schiavon: The DEEP2 Galaxy Redshift Survey: Design, Observations, Data Reduction, and Redshifts. *Ap. J. Suppl. Ser.* 208, 1, (2013).
- Newman, S.F., R. Genzel, N.M. Förster Schreiber, K. Shapiro Griffin, C. Mancini, S.J. Lilly, A. Renzini, N. Bouché, A. Burkert, P. Buschkamp, C.M. Carollo, G. Cresci, R. Davies, F. Eisenhauer, S. Genel, E.K.S. Hicks, J. Kurk, D. Lutz, T. Naab, Y. Peng, A. Sternberg, L.J. Tacconi, S. Wuyts, G. Zamorani and D. Vergani: The SINS/zC-SINF Survey of  $z \sim 2$  Galaxy Kinematics: The Nature of Dispersion-dominated Galaxies. *Ap. J.* 767, 104 (2013).
- Ngoumou, J., T. Preibisch, T. Ratzka and A. Burkert: The Mysterious Sickle Object in the Carina Nebula: A Stellar Wind Induced Bow Shock Grazing a Clump?. *Ap. J.* 769, 139 (2013).
- Nisini, B., G. Santangelo, S. Antonucci, M. Benedettini, C. Codella, T. Giannini, A. Lorenzani, R. Liseau, M. Tafalla, P. Bjerkerli, S. Cabrit, P. Caselli, L. Kristensen, D. Neufeld, G. Melnick and E.F. van Dishoeck: Mapping water in protostellar outflows with Herschel. PACS and HIFI observations of L1448-C. *Astron. Astrophys.* 549, A16 (2013).
- Nordon, R., D. Lutz, A. Saintonge, S. Berta, S. Wuyts, N.M. Förster Schreiber, R. Genzel, B. Magnelli, A. Poglitsch, P. Popesso, D. Rosario, E. Sturm and L.J. Tacconi: The Far-infrared, UV, and Molecular Gas Relation in Galaxies up to  $z = 2.5$ . *Ap. J.* 762, 125 (2013).
- Norris, R.P., J. Afonso, D. Bacon, ..., M. Salvato, et al.: Radio Continuum Surveys with Square Kilometre Array Pathfinders. *Publ. Astron. Soc. Australia.* 30, 20 (2013).
- Nosenko, V., A.V. Ivlev and G.E. Morfill: Anisotropic shear melting and recrystallization of a two-dimensional complex plasma. *Physical Review E* 87, 043115 (2013).
- Nulsen, P.E.J., Z. Li, W.R. Forman, R.P. Kraft, D.V. Lal, C. Jones, I. Zhuravleva, E. Churazov, J.S. Sanders, A.C. Fabian, R.E. Johnson and S.S. Murray: Deep Chandra Observations of A2199: The Interplay between Merger-induced Gas Motions and Nuclear Outbursts in a Cool Core Cluster. *Ap. J.* 775, 117 (2013).
- Nuza, S.E., A.G. Sánchez, F. Prada, A. Klypin, D.J. Schlegel, S. Gottlöber, A.D. Montero-Dorta, M. Manera, C.K. McBride, A.J. Ross, R. Angulo, M. Blanton, A. Bolton, G. Favole, L. Samushia, F. Montesano, W.J. Percival, N. Padmanabhan, M. Steinmetz, J. Tinker, R. Skibba, D.P. Schneider, H. Guo, I. Zehavi, Z. Zheng; D. Bizyaev, O. Malanushenko, V. Malanushenko, A.E. Oravetz, D.J. Oravetz and A.C. Shelden: The clustering of galaxies at  $z \approx 0.5$  in the SDSS-III Data Release 9 BOSS-CMASS sample: a test for the  $\Lambda$ CDM cosmology. *Mon. Not. R. Astron. Soc.* 432, 743-760 (2013).
- O'Rourke, L., D. Bockelee-Morvan, N. Biver, B. Altieri, D. Teysier, L. Jorda, V. Debout, C. Snodgrass, M. Küppers, M. A'Hearn, T.G. Müller and T. Farnham: Herschel and IRAM-30 m observations of comet C/2012 S1 (ISON) at 4.5 AU from the Sun. *Astron. Astrophys.* 560, 1-7 (2013).
- Oliveira, I., B. Merín, K.M. Pontoppidan and E.F. van Dishoeck: The Physical Structure of Protoplanetary Disks: The Serpens Cluster Compared with Other Regions. *Ap. J.* 762, 128 (2013).
- Olofsson, J., M. Benisty, J.-B. Le Bouquin, J.-P. Berger, S. Lacour, F. Ménard, Th. Henning, A. Crida, L. Burtscher, G. Meeus, T. Ratzka, C. Pinte, J.C. Augereau, F. Malbet, B. Lazareff and W. Traub: Sculpting the disk around T Chamaeleontis: an interferometric view. *Astron. Astrophys.* 552, A4, (2013).
- Orlando, E. and A. Strong: Galactic synchrotron emission with cosmic ray propagation models. *Mon. Not. R. Astron. Soc.* 436, 2127-2142 (2013).
- Ota, N., Y. Fujino, Y. Ibaraki, H. Böhringer and G. Chon: Suzaku observations of the low surface brightness cluster A76. *Astron. Astrophys.* 556, A21 (2013).
- Oteo, I., G. Magdis, Á. Bongiovanni, A.M. Pérez-García, J. Cepa, B. Cedrés, A. Ederoclite, M. Sánchez-Portal, J.A.L. Aguerri, E.J. Alfaro, B. Altieri, P. Andreani, T. Aparicio-Villegas, H. Aussel, N. Benítez, S. Berta, T. Broadhurst, J. Cabrera-Cañó, F.J. Castander, M. Cerviño, A. Cimatti, D. Cristobal-Hornillos, E. Daddi, D. Elbaz, A. Fernandez-Soto, N.F. Schreiber, R. Genzel, R.M. Gonzalez-Delgado, C. Husillos, L. Infante, E. Le Floc'h, D. Lutz, B. Magnelli, R. Maiolino, I. Márquez, V.J. Martínez, J. Masegosa, I. Mautate, M. Moles, A. Molino, A.d. Olmo, J. Perea, R. Pérez-Martínez, I. Pintos-Castro, A. Poglitsch, J. Poednikova, P. Popesso, M. Pović, F. Pozzi, F. Prada, J.M. Quintana, L. Riguccini, E. Sturm, L. Tacconi, I. Valtchanov and K. Viironen: Lyman Break and ultraviolet-selected galaxies at  $z \sim 1$  - II. PACS 100  $\mu$ m/160  $\mu$ m FIR detections. *Mon. Not. R. Astron. Soc.* 435, 158-186 (2013).
- Paardekooper, J.-P., S. Khochfar and C. Dalla Vecchia: The First Billion Years project: proto-galaxies reionizing the Universe. *Mon. Not. R. Astron. Soc.* 429, L94-L98 (2013).
- Pal'shin, V.D., K. Hurley, D.S. Svinkin, ..., A. Rau, A. von Kienlin, et al.: Interplanetary Network Localizations of Konus Short Gamma-Ray Bursts. *Ap. J. Suppl. Ser.* 207, 38 (2013).



- Panagoulia, E.K., A.C. Fabian and J.S. Sanders: Searching for the missing iron mass in the core of the Centaurus cluster. *Mon. Not. R. Astron. Soc.* 433, 3290-3296 (2013).
- Park, H.J., N.D. Loh, R.G. Sierra, C.Y. Hampton, D. Starodub, A.V. Martin, A. Barty, A. Aquila, J. Schulz, J. Steinbrener, R.L. Shoeman, L. Lomb, S. Kassemeyer, C. Bostedt, J. Bozek, S.W. Epp, B. Erk, R. Hartmann, D. Rolles, A. Rudenko, B. Rudek, L. Foucar, N. Kimmel, G. Weidenspointner, G. Hauser, P. Holl, E. Pedersoli, M. Liang, M.S. Hunter, L. Gumprecht, N. Coppola, C. Wunderer, H. Graafsma, F.R.N.C. Maia, T. Ekeberg, M. Hantke, H. Fleckenstein, H. Hirsemann, K. Nass, H.J. Tobias, G.R. Farquar, W.H. Benner, S. Hau-Riege, C. Reich, A. Hartmann, H. Soltau, S. Marchesini, S. Bajt, M. Barthelmess, L. Strüder, J. Ullrich, P. Bucksbaum, M. Frank, I. Schlichting, H.N. Chapman, M.J. Bogan and V. Elser: Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers. *Optics Express* 21, 28729 (2013).
- Paschmann, G., M. Øieroset and T. Phan: In-situ observations of reconnection in space. *Space Sci. Rev.* 178, 385-417 (2013).
- Paschmann, G., S. Haaland, B. Sonnerup and T. Knetter: Discontinuities and Alfvénic fluctuations in the solar wind. *Ann. Geophysicae* 31, 871-887 (2013).
- Pascucci, I., G. Herczeg, J.S. Carr and S. Bruderer: The Atomic and Molecular Content of Disks around Very Low-mass Stars and Brown Dwarfs. *Ap. J.* 779, 178 (2013).
- Pedersoli, E., N.D. Loh, F. Capotondi, C. Y Hampton, R.G. Sierra, D. Starodub, C. Bostedt, J. Bozek, A.J. Nelson, M. Aslam, S. Li, V.P. Dravid, A.V. Martin, A. Aquila, A. Barty, H. Fleckenstein, L. Gumprecht, M. Liang, K. Nass, J. Schulz, T.A. White, N. Coppola, S. Bajt, M. Barthelmess, H. Graafsma, H. Hirsemann, C. Wunderer, S.W. Epp, B. Erk, B. Rudek, A. Rudenko, L. Foucar, S. Kassemeyer, L. Lomb, D. Rolles, R.L. Shoeman, J. Steinbrener, R. Hartmann, A. Hartmann, G. Hauser, P. Holl, N. Kimmel, C. Reich, H. Soltau, G. Weidenspointner, W.H. Benner, G.R. Farquar, S.P. Hau-Riege, M.S. Hunter, T. Ekeberg, M. Hantke, F.R.N.C. Maia, H.J. Tobias, S. Marchesini, M. Frank, L. Strüder, I. Schlichting, J. Ullrich, H.N. Chapman, P.H. Bucksbaum, M. Kiskinova and M.J. Bogan: Mesoscale morphology of airborne core-shell nanoparticle clusters: x-ray laser coherent diffraction imaging. *Journal of Physics B Atomic Molecular Physics* 46, 164033 (2013).
- Perna, D., E. Dotto, M.A. Barucci, E. Mazzotta Epifani, E. Vilenius, M. Dall'Ora, S. Fornasier and T.G. Müller: Photometry and taxonomy of trans-Neptunian objects and Centaurs in support of a Herschel key program. *Astron. Astrophys.* 554, A49 (2013).
- Persson, M.V., J.K. Jørgensen and E.F. van Dishoeck: Warm water deuterium fractionation in IRAS 16293-2422. The high-resolution ALMA and SMA view. *Astron. Astrophys.* 549, L3 (2013).
- Petrucci, P.-O., S. Paltani, J. Malzac, J.S. Kaastra, M. Cappi, G. Ponti, B. De Marco, G.A. Kriss, K.C. Steenbrugge, S. Bianchi, G. Branduardi-Raymont, M. Mehdipour, E. Costantini, M. Dadina and P. Lubinski: Multiwavelength campaign on Mrk 509 XII. Broad band spectral analysis. *Astron. Astrophys.* 549 (2013).
- Phan, T.D., G. Paschmann, J.T. Gosling, M. Oieroset, M. Fujimoto, J.F. Drake and V. Angelopoulos: The dependence of magnetic reconnection on plasma  $\beta$  and magnetic shear: Evidence from magnetopause observations. *Geophys. Res. Lett.* 40, 11-16 (2013).
- Phan, T.D., M.A. Shay, J.T. Gosling, M. Fujimoto, J.F. Drake, G. Paschmann, M. Oieroset, J.P. Eastwood and V. Angelopoulos: Electron bulk heating in magnetic reconnection at Earth's magnetopause: Dependence on the inflow Alfvén speed and magnetic shear. *Geophys. Res. Lett.* 40, 4475-4480 (2013).
- Pilecki, B., D. Graczyk, G. Pietrzyński, W. Gieren, I.B. Thompson, W.L. Freedman, V. Scowcroft, B.F. Madore, A. Udalski, I. Soszyński, P. Konorski, R. Smolec, N. Nardetto, G. Bono, P.G. Moroni, J. Storm and A. Gallenne: Physical parameters and the projection factor of the classical Cepheid in the binary system OGLE-LMC-CEP-0227. *Mon. Not. R. Soc.*, 436(2), 953-967 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. X. Physics of the hot gas in the Coma cluster. *Astron. Astrophys.* 554, A140 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. XI. The gas content of dark matter halos: the Sunyaev-Zeldovich-stellar mass relation for locally brightest galaxies. *Astron. Astrophys.* 557, A52 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. IX. Detection of the Galactic haze with Planck. *Astron. Astrophys.* 554, A139 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. III. The relation between galaxy cluster mass and Sunyaev-Zeldovich signal. *Astron. Astrophys.* 550, A129 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. V. Pressure profiles of galaxy clusters from the Sunyaev-Zeldovich effect. *Astron. Astrophys.* 550, A131 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. VI. The dynamical structure of PLCKG214.6+37.0, a Planck discovered triple system of galaxy clusters. *Astron. Astrophys.* 550, A132 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. VIII. Filaments between interacting clusters. *Astron. Astrophys.* 550, A134 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. IV. The XMM-Newton validation programme for new Planck galaxy clusters. *Astron. Astrophys.* 550, A130 (2013).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud,

- ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. II. Comparison of Sunyaev-Zeldovich measurements from Planck and from the Arcminute Microkelvin Imager for 11 galaxy clusters. *Astron. Astrophys.* 550, A128 (2013).
- Plewa, P.M., M. Schartmann and A. Burkert: Dynamics of gas and dust clouds in active galactic nuclei. *Mon. Not. R. Astron. Soc.* 431, L127-L130 (2013).
- Ponti, G., M. Cappi, E. Costantini, S. Bianchi, J.S. Kaastra, B. De Marco, R.P. Fender, P.-O. Petrucci, G.A. Kriss, K.C. Steenbrugge, N. Arav, E. Behar, G. Branduardi-Raymont, M. Dadina, J. Ebrero, P. Lubinski, M. Mehdipour, S. Paltani, C. Pinto and F. Tombesi: Multiwavelength campaign on Mrk 509 XI. Reverberation of the Fe K $\alpha$  line. *Astron. Astrophys.* 549 (2013).
- Poole, G.B., C. Blake, D. Parkinson, S. Brough, M. Colless, C. Contreras, W. Couch, D.J. Croton, S. Croom, T. Davis, M.J. Drinkwater, K. Forster, D. Gilbank, M. Gladders, K. Glazebrook, B. Jelliffe, R.J. Jurek, I.-h. Li, B. Madore, D.C. Martin, K. Pimbblet, M. Pracy, R. Sharp, E. Wisnioski, D. Woods, T.K. Wyder and H.K.C. Yee: The WiggleZ Dark Energy Survey: probing the epoch of radiation domination using large-scale structure. *Mon. Not. R. Astron. Soc.* 429, 1902-1912 (2013).
- Popel, S.I., G.E. Morfill, P.K. Shukla and H. Thomas: Waves in a dusty plasma over the illuminated part of the Moon. *Journal of Plasma Physics*, 79(SI 06), 1071-1074 (2013).
- Poutanen, J., S. Fabrika, A.F. Valeev, O. Sholukhova and J. Greiner: On the association of the ultraluminous X-ray sources in the Antennae galaxies with young stellar clusters. *Mon. Not. R. Astron. Soc.* 432, 506-519 (2013).
- Powell, L.C., F. Bournaud, D. Chapon and R. Teyssier: Beyond the nuclear starburst? Clustered star formation in major mergers. *Mon. Not. R. Astron. Soc.* 434, 1028-1042 (2013).
- Prieto, M., M.C. Eliche-Moral, M. Balcells, D. Cristóbal-Hornillos, P. Erwin, D. Abreu, L. Domínguez-Palmero, A. Hempel, C. López-Sanjuan, R. Guzmán, P.G. Pérez-González, G. Barro, J. Gallego and J. Zamorano: Evolutionary paths among different red galaxy types at  $0.3 < z < 1.5$  and the late buildup of massive E-S0s through major mergers. *Mon. Not. R. Astron. Soc.* 428, 999-1019 (2013).
- Prinz, T. and W. Becker: Supernova remnant G296.7-0.9 in X-rays. *Astron. Astrophys.* 550, A33, (2013).
- Pustynnik, M.Y., L. Hou, A.V. Ivlev, L.M. Vasilyak, L. Couëdel, H.M. Thomas, G.E. Morfill and V.E. Fortov: High-voltage nanosecond pulses in a low-pressure radio-frequency discharge. *Physical Review E* 87, 063105 (2013).
- Pustynnik, M.Y., L. Hou, A.V. Ivlev, L.M. Vasilyak, L. Couëdel, H.M. Thomas, G.E. Morfill and V.E. Fortov: Publisher's Note: High-voltage nanosecond pulses in a low-pressure radio-frequency discharge [Phys. Rev. E 87, 063105 (2013)]. *Physical Review E* 87, 069906 (2013).
- Qi, C., K.I. Öberg, D.J. Wilner, P. D'Alessio, E. Bergin, S.M. Andrews, G.A. Blake, M.R. Hogerheijde and E.F. van Dishoeck: Imaging of the CO Snow Line in a Solar Nebula Analog. *Science* 341, 630-632 (2013).
- Radović, M.K., Č.A. Maluckov, J.P. Karamarković, S.A. Rančev and S.D. Mitic: Breakdown voltage distributions in Ne-filled diode at 1.33 mbar with corona appearance in pre-breakdown regime. *Brazilian Journal of Physics*, 43(3), 145-151 (2013).
- Räth, C., T. Baum, R. Monetti, I. Sidorenko, P. Wolf, F. Eckstein, M. Matsuura, E.-M. Lochmüller, P.K. Zysset, E.J. Rummeny, T.M. Link and J.S. Bauer: Scaling relations between trabecular bone volume fraction and microstructure at different skeletal sites. *Bone*, 57(2), 377-383 (2013).
- Raimundo, S., R. Davies, P. Gandhi, A. Fabian, R. Canning and V. Ivanov: The black hole and central stellar population of MCG-6-30-15. *Mon. Not. R. Astron. Soc.* 431, 2294-2306 (2013).
- Rakic, O., J. Schaye, C.C. Steidel, C.M. Booth, C. Dalla Vecchia and G.C. Rudie: A measurement of galaxy halo mass from the surrounding H I Ly $\alpha$  absorption. *Mon. Not. R. Soc.*, 433(4), 3103-3114 (2013).
- Ranalli, P., A. Comastri, C. Vignali, F.J. Carrera, N. Cappelluti, R. Gilli, S. Puccetti, W.N. Brandt, H. Brunner, M. Brusa, I. Georgantopoulos, K. Iwasawa and V. Mainieri: The XMM deep survey in the CDF-S. III. Point source catalogue and number counts in the hard X-rays. *Astron. Astrophys.* 555, A42 (2013).
- Rangel, C., K. Nandra, E.S. Laird and P. Orange: X-ray properties of BzK-selected galaxies in the deepest X-ray fields. *Mon. Not. R. Astron. Soc.* 428, 3089-3103 (2013).
- Rea, N., P. Esposito, J.A. Pons, R. Turolla, D.F. Torres, G.L. Israel, A. Possenti, M. Burgay, D. Viganò, A. Papitto, R. Perna, L. Stella, G. Ponti, F.K. Baganoff, D. Haggard, A. Camero-Arranz, S. Zane, A. Minter, S. Mereghetti, A. Tiengo, R. Schödel, M. Feroci, R. Mignani and D. Götz: A Strongly Magnetized Pulsar within the Grasp of the Milky Way's Supermassive Black Hole. *Ap. J. Lett.* 775, L34 (2013).
- Reichardt, C.L., B. Stalder, L.E. Bleem, ..., J.J. Mohr, et al.: Galaxy Clusters Discovered via the Sunyaev-Zel'dovich Effect in the First 720 Square Degrees of the South Pole Telescope Survey. *Ap. J.* 763, 127 (2013).
- Remus, R.-S., A. Burkert, K. Dolag, P.H. Johansson, T. Naab, L. Oser and J. Thomas: The Dark Halo - Spheroidal Conspiracy and the Origin of Elliptical Galaxies. *Ap. J.* 766, 71 (2013).
- Ricci, C., S. Paltani, H. Awaki, P.-O. Petrucci, Y. Ueda and M. Brightman: Luminosity-dependent unification of active galactic nuclei and the X-ray Baldwin effect. *Astron. Astrophys.* 553, A29 (2013).
- Ritter, A., L. Andricek, T. Kleinohl, C. Koffmane, F. Lüticke, C. Marinas, H.-G. Moser, J. Ninkovic, R. Richter, G. Schaller, M. Schnecke and F. Schopper: Investigations on radiation hardness of DEPFET sensors for the Belle II detector. *Nucl. Instrum. Methods Phys. Res. (A)* 730, 79-83 (2013).
- Rizzuto, A.C., M.J. Ireland, J.G. Robertson, Y. Kok, P.G. Tuthill, B.A. Warrington, X. Haubois, W.J. Tango, B. Norris, T. ten Brummelaar, A.L. Kraus, A. Jacob and C. Laliberte-Houdeville: Long-baseline interferometric multiplicity survey of the Sco-Cen OB association. *Mon. Not. R. Astron.*

Soc. 436, 1694-1707 (2013).

Rosario, D.J., B. Trakhtenbrot, D. Lutz, H. Netzer, J.R. Trump, J.D. Silverman, M. Schramm, E. Lusso, S. Berta, A. Bongiorno, M. Brusa, N.M. Förster-Schreiber, R. Genzel, S. Lilly, B. Magnelli, V. Mainieri, R. Maiolino, A. Merloni, M. Mignoli, R. Nordon, P. Popesso, M. Salvato, P. Santini, L.J. Tacconi and G. Zamorani: The mean star-forming properties of QSO host galaxies. *Astron. Astrophys.* 560, A72 (2013).

Rosario, D.J., L. Burtscher, R. Davies, R. Genzel, D. Lutz and L.J. Tacconi: The Mid-infrared Emission of Narrow-line Active Galactic Nuclei: Star Formation, Nuclear Activity, and Two Populations Revealed by *WISE*. *Ap. J.* 778, 94 (2013).

Rosario, D.J., M. Mozena, S. Wuyts, K. Nandra, A. Koeckemoer, E. McGrath, N.P. Hathi, A. Dekel, J. Donley, J.S. Dunlop, S.M. Faber, H. Ferguson, M. Giavalisco, N. Groggin, Y. Guo, D.D. Kocevski, D.C. Koo, E. Laird, J. Newman, C. Rangel and R. Somerville: X-Ray Selected AGN Host Galaxies are Similar to Inactive Galaxies out to  $z = 3$ : Results from CANDELS/CDF-S. *Ap. J.* 763, 59 (2013).

Rosario, D.J., P. Santini, D. Lutz, H. Netzer, F.E. Bauer, S. Berta, B. Magnelli, P. Popesso, D.M. Alexander, W.N. Brandt, R. Genzel, R. Maiolino, J.R. Mullaney, R. Nordon, A. Saintonge, L. Tacconi and S. Wuyts: Nuclear Activity is More Prevalent in Star-forming Galaxies. *Ap. J.* 771, 63 (2013).

Rosotti, G.P., B. Ercolano, J.E. Owen and P.J. Armitage: The interplay between X-ray photoevaporation and planet formation. *Mon. Not. R. Soc.*, 430(2), 1392-1401 (2013).

Ross, A.J., W.J. Percival, A. Carnero, G.-b. Zhao, M. Marrera, A. Raccanelli, E. Aubourg, D. Bizyaev, H. Brewington, J. Brinkmann, J.R. Brownstein, A.J. Cuesta, L.A.N. da Costa, D.J. Eisenstein, G. Ebelke, H. Guo, J.-C. Hamilton, M.V. Magaña, E. Malanushenko, V. Malanushenko, C. Maraston, F. Montesano, R.C. Nichol, D. Oravetz, K. Pan, F. Prada, A.G. Sánchez, L. Samushia, D.J. Schlegel, D.P. Schneider, H.-J. Seo, A. Sheldon, A. Simmons, S. Snedden, M.E.C. Swanson, D. Thomas, J.L. Tinker, R. Tojeiro and I. Zehavi: The clustering of galaxies in the SDSS-III DR9 Baryon Oscillation Spectroscopic Survey: constraints on primordial non-Gaussianity. *Mon. Not. R. Astron. Soc.* 428, 1116-1127 (2013).

Roy, R., B. Kumar, J.R. Maund, P. Schady, E.F. Olivares, D. Malesani, G. Leloudas, S. Nandi, N. Tanvir, D. Milisavljevic, J. Hjorth, K. Misra, B. Kumar, S.B. Pandey, R. Sagar and H.C. Chandola: SN 2007uy - metamorphosis of an aspheric Type Ib explosion. *Mon. Not. R. Astron. Soc.* 434, 2032-2050 (2013).

Rusli, S.P., J. Thomas, R.P. Saglia, M. Fabricius, P. Erwin, R. Bender, N. Nowak, C.H. Lee, A. Riffeser and R. Sharp: The Influence of Dark Matter Halos on Dynamical Estimates of Black Hole Mass: 10 New Measurements for High- $\sigma$  Early-type Galaxies. *Astron. J.* 146, 45 (2013).

Rusli, S.P., P. Erwin, R.P. Saglia, J. Thomas, M. Fabricius, R. Bender and N. Nowak: Depleted Galaxy Cores and Dynamical Black Hole Masses. *Astron. J.* 146, 160 (2013).

Saha, K. and O. Gerhard: Secular evolution and cylindrical

rotation in boxy/peanut bulges: impact of initially rotating classical bulges. *Mon. Not. R. Astron. Soc.* 430, 2039-2046 (2013).

Saha, K. and T. Naab: Spinning dark matter haloes promote bar formation. *Mon. Not. R. Soc.*, 434(2), 1287-1299 (2013).

Saha, K., D. Pfenniger and R.E. Taam: Meridional tilt of the stellar velocity ellipsoid during bar buckling instability. *Ap. J.* 764(2): 123, pp. 1-13 (2013).

Saha, K. and A.W. Maciejewski: Spontaneous formation of double bars in dark-matter-dominated galaxies. *Mon. Not. R. Soc. Letters*, 433(1), L44-L48 (2013).

Saintonge, A., D. Lutz, R. Genzel, B. Magnelli, R. Nordon, L.J. Tacconi, A.J. Baker, K. Bandara, S. Berta, N.M. Förster-Schreiber, A. Poglitsch, E. Sturm, E. Wuyts and S. Wuyts: Validation of the Equilibrium Model for Galaxy Evolution to  $z \sim 3$  through Molecular Gas and Dust Observations of Lensed Star-forming Galaxies. *Ap. J.* 778, 2 (2013).

Sakamoto, T., E. Troja, K. Aoki, ..., S. Foley, et al.: Identifying the location in the host galaxy of the short GRB 111117A with the Chandra subarcsecond position. *Ap. J.* 766(1): 41, pp. 1-12 (2013).

Salyk, C., G.J. Herczeg, J.M. Brown, G.A. Blake, K.M. Pontoppidan and E.F. van Dishoeck: Measuring Protoplanetary Disk Accretion with H I Pfund  $\beta$ . *Ap. J.* 769, 21 (2013).

Salvaterra, R., U. Maio, B. Ciardi and M.A. Campisi: Simulating high- $z$  gamma-ray burst host galaxies. *Mon. Not. R. Soc.*, 429(3), 2718-2726 (2013).

San José-García, I., J.C. Mottram, L.E. Kristensen, E.F. van Dishoeck, U.A. Yildiz, F.F.S. van der Tak, F. Herpin, R. Visser, C. McCoey, F. Wyrowski, J. Braine and D. Johnstone: Herschel-HIFI observations of high-J CO and isotopologues in star-forming regions: from low to high mass. *Astron. Astrophys.* 553, A125 (2013).

Sanders, J.S. and A.C. Fabian: Velocity width measurements of the coolest X-ray emitting material in the cores of clusters, groups and elliptical galaxies. *Mon. Not. R. Astron. Soc.* 429, 2727-2738 (2013).

Sanders, J.S., A.C. Fabian, E. Churazov, A.A. Schekochihin, A. Simionescu, S.A. Walker and N. Werner: Linear Structures in the Core of the Coma Cluster of Galaxies. *Science* 341, 1365-1368 (2013).

Santangelo, G., B. Nisini, S. Antonucci, C. Codella, S. Cabrit, T. Giannini, G. Herczeg, R. Liseau, M. Tafalla and E.F. van Dishoeck: Herschel-PACS observations of shocked gas associated with the jets of L1448 and L1157. *Astron. Astrophys.* 557, A22 (2013).

Santos, J.S., B. Altieri, P. Popesso, V. Strazzullo, I. Valtchanov, S. Berta, H. Böhringer, L. Conversi, R. Demarco, A.C. Edge, C. Lidman, D. Lutz, L. Metcalfe, C.R. Mullis, I. Pintos-Castro, M. Sánchez-Portal, T.D. Rawle, P. Rosati, A.M. Swinbank and M. Tanaka: Dust-obscured star formation in the outskirts of XMMU J2235.3-2557, a massive galaxy cluster at  $z = 1.4$ . *Mon. Not. R. Astron. Soc.* 433, 1287-1299 (2013).

Saro, A., J.J. Mohr, G. Bazin and K. Dolag: Toward Unbi-

ased Galaxy Cluster Masses from Line-of-sight Velocity Dispersions. *Ap. J.* 772, 47 (2013).

Sarzi, M., K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, M. Cappellari, A. Crocker, R.L. Davies, T.A. Davis, 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, N. Scott, P. Serra, L.M. Young and A.-M. Weijmans: The ATLAS<sup>3D</sup> project – XIX. The hot gas content of early-type galaxies: fast versus slow rotators. *Mon. Not. R. Soc.*, 432(3), 1845-1861 (2013).

Savaglio, S. and U. Grothkopf: Swift Publication Statistics: A Comparison With Other Major Observatories. *Publ. Astron. Soc. Pac.* 125, 287-294 (2013).

Sbarrato, T., G. Ghisellini, M. Nardini, G. Tagliaferri, J. Greiner, A. Rau and P. Schady: Blazar candidates beyond redshift 4 observed with GROND. *Mon. Not. R. Astron. Soc.* 433, 2182-2193 (2013).

Sbarrato, T., G. Tagliaferri, G. Ghisellini, M. Perri, S. Puccetti, M. Baloković, M. Nardini, D. Stern, S.E. Boggs, W.N. Brandt, F.E. Christensen, P. Giommi, J. Greiner, C.J. Hailey, F.A. Harrison, T. Hovatta, G.M. Madejski, A. Rau, P. Schady, V. Sudilovsky, C.M. Urry and W.W. Zhang: NuSTAR Detection of the Blazar B2 1023+25 at Redshift 5.3. *Ap. J.* 777, 147 (2013).

Schmidt, K.B., H.-W. Rix, E. da Cunha, G.B. Brammer, T.J. Cox, P. van Dokkum, N.M. Förster Schreiber, M. Franx, M. Fumagalli, P. Jonsson, B. Lundgren, M.V. Maseda, I. Momcheva, E.J. Nelson, R.E. Skelton, A. van der Wel and K.E. Whitaker: The spatial extent and distribution of star formation in 3D-HST mergers at  $z \sim 1.5$ . *Mon. Not. R. Astron. Soc.* 432, 285-300 (2013).

Schneider, E.E., C.D. Impey, J.R. Trump and M. Salvato: Steps Toward Unveiling the True Population of Active Galactic Nuclei: Photometric Characterization of Active Galactic Nuclei in COSMOS. *Ap. J.* 766, 123 (2013).

Schwabe, M. and D.B. Graves: Simulating the dynamics of complex plasmas. *Phys. Rev. (E)* 88, 023101, (2013).

Schwabe, M.: Collective effects in complex/dusty plasmas. *Journal of Postdoctoral Research* 1, 35-40 (2013).

Schönenbach, T., G. Caspar, P.O. Hess, T. Boller, A. Müller, M. Schäfer and W. Greiner: Experimental tests of pseudo-complex General Relativity. *Mon. Not. R. Astron. Soc.* 430, 2999-3009 (2013).

Scott, N., M. Cappellari, R.L. Davies, Verdoes G. Kleijn, M. Bois, K. Alatalo, L. Blitz, F. Bournaud, M. Bureau, A. Crocker, T.A. Davis, P.T. de Zeeuw, P.-A. Duc, E. Emsellem, S. Khochfar, D. Krajnović, H. Kuntschner, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, P. Serra, A.-M. Weijmans and L.M. Young: The ATLAS<sup>3D</sup> project – XXI. Correlations between gradients of local escape velocity and stellar populations in early-type galaxies. *Mon. Not. R. Soc.*, 432(3), 1894-1913 (2013).

Scoville, N. and A. Burkert: The Galactic Center Cloud G2 – a Young Low-mass Star with a Stellar Wind. *Ap. J.* 768, 108 (2013).

Scoville, N., S. Arnouts, H. Aussel, A. Benson, A. Bongio-

orno, K. Bundy, M.A.A. Calvo, P. Capak, M. Carollo, F. Civano, J. Dunlop, M. Elvis, A. Faisst, A. Finoguenov, H. Fu, M. Giavalisco, Q. Guo, O. Ilbert, A. Iovino, M. Kajisawa, J. Kartaltepe, A. Leauthaud, O. Le Fèvre, E. Le Floch, S.J. Lilly, C.T.-C. Liu, S. Manohar, R. Massey, D. Masters, H.J. McCracken, B. Mobasher, Y.-J. Peng, A. Renzini, J. Rhodes, M. Salvato, D.B. Sanders, B.D. Sarvestani, C. Scarlata, E. Schinnerer, K. Sheth, P.L. Shopbell, V. Smolčić, Y. Taniguchi, J.E. Taylor, S.D.M. White and L. Yan: Evolution of Galaxies and Their Environments at  $z = 0.1-3$  in COSMOS. *Ap. J. Supp. Ser.* 206, 3 (2013).

Scóccola, C.G., A.G. Sánchez, J.A. Rubiño-Martín, R. Génova-Santos, R. Rebolo, A.J. Ross, W.J. Percival, M. Manera, D. Bizyaev, J.R. Brownstein, G. Ebelke, E. Malanushenko, V. Malanushenko, D. Oravetz, K. Pan, D.P. Schneider and A. Simmons: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: constraints on the time variation of fundamental constants from the large-scale two-point correlation function. *Mon. Not. R. Astron. Soc.* 434, 1792-1807 (2013).

Send, S., A. Abboud, R. Hartmann, M. Huth, W. Leitenberger, N. Pashniak, J. Schmidt, L. Strüder and U. Pietsch: Characterization of a pnCCD for applications with synchrotron radiation. *Nucl. Instrum. Methods Phys. Res. (A)* 711, 132-142 (2013).

Serra, P., B. Koribalski, P.-A. Duc, T. Oosterloo, R.M. McDermid, L. Michel-Dansac, E. Emsellem, J.-C. Cuillandre, K. Alatalo, L. Blitz, M. Bois, F. Bournaud, M. Bureau, M. Cappellari, A.F. Crocker, R.L. Davies, T.A. Davis, P.T. de Zeeuw, S. Khochfar, D. Krajnović, H. Kuntschner, P.-Y. Lablanche, R. Morganti, T. Naab, M. Sarzi, N. Scott, A.-M. Weijmans and L.M. Young: Discovery of a giant HI tail in the galaxy group HCG 44. *Mon. Not. R. Astron. Soc.* 428, 370-380 (2013).

Simionescu, A., N. Werner, O. Urban, S.W. Allen, A.C. Fabian, A. Mantz, K. Matsushita, P.E.J. Nulsen, J.S. Sanders, T. Sasaki, T. Sato, Y. Takei and S.A. Walker: Thermodynamics of the Coma Cluster Outskirts. *Ap. J.* 775, 4 (2013).

Singer, L.P., S.B. Cenko, M.M. Kasliwal, D.A. Perley, E.O. Ofek, D.A. Brown, P.E. Nugent, S.R. Kulkarni, A. Corsi, D.A. Frail, E. Bellm, J. Mulchaey, I. Arcavi, T. Barlow, J.S. Bloom, Y. Cao, N. Gehrels, A. Horesh, F.J. Masci, J. McEnery, A. Rau, J.A. Surace and O. Yaron: Discovery and Redshift of an Optical Afterglow in 71 deg<sup>2</sup>: iPTF13b1 and GRB 130702A. *Ap. J. Lett.* 776, L34 (2013).

Sobral, D., I. Smail, P.N. Best, J.E. Geach, Y. Matsuda, J.P. Stott, M. Cirasuolo and J. Kurk: A large H $\alpha$  survey at  $z = 2.23, 1.47, 0.84$  and  $0.40$ : the 11 Gyr evolution of star-forming galaxies from HiZELS. *Mon. Not. R. Astron. Soc.* 428, 1128-1146 (2013).

Stasyszyn, F.A., K. Dolag and A.M. Beck: A divergence-cleaning scheme for cosmological SPMHD simulations. *Mon. Not. R. Soc.*, 428(1), 13-27 (2013).

Stalder, B., J. Ruel, R. Šuhada, ..., J.J. Mohr, et al.: SPT-CL J0205-5829: A  $z = 1.32$  Evolved Massive Galaxy Cluster in the South Pole Telescope Sunyaev-Zel'dovich Effect Survey. *Ap. J.* 763, 93 (2013).

- Steele, P.R., R.P. Saglia, M.R. Burleigh, T.R. Marsh, B.T. Gänsicke, K. Lawrie, M. Cappetta, J. Girven and R. Napiewotzki: NLTT 5306: the shortest period detached white dwarf+brown dwarf binary. *Mon. Not. R. Astron. Soc.* 429, 3492-3500 (2013).
- Stierwalt, S., L. Armus, J.A. Surace, H. Inami, A.O. Petric, T. Diaz-Santos, S. Haan, V. Charmandaris, J. Howell, D.C. Kim, J. Marshall, J.M. Mazzarella, H.W.W. Spoon, S. Veilleux, A. Evans, D.B. Sanders, P. Appleton, G. Bothun, C.R. Bridge, B. Chan, D. Frayer, K. Iwasawa, L.J. Kewley, S. Lord, B.F. Madore, J.E. Melbourne, E.J. Murphy, J.A. Rich, B. Schulz, E. Sturm, T. Vavilkin and K. Xu: Mid-infrared Properties of Nearby Luminous Infrared Galaxies. I. Spitzer Infrared Spectrograph Spectra for the GOALS Sample. *Ap. J. Supp. Ser.* 206, 1 (2013).
- Story, K.T., C.L. Reichardt, Z. Hou, ..., J.J. Mohr, et al.: A Measurement of the Cosmic Microwave Background Damping Tail from the 2500-Square-Degree SPT-SZ Survey. *Ap. J.* 779, 86 (2013).
- Sturm, B., J. Bouwman, T. Henning, N.J. Evans, L.B.F.M. Waters, E.F. van Dishoeck, J.D. Green, J. Olofsson, G. Meeus, K. Maaskant, C. Dominik, J.C. Augereau, G.D. Mulders, B. Acke, B. Merin and G.J. Herczeg: The 69  $\mu\text{m}$  forsterite band in spectra of protoplanetary disks. Results from the Herschel DIGIT programme. *Astron. Astrophys.* 553, A5 (2013).
- Sturm, R., D. Drašković, M.D. Filipović, F. Haberl, J. Collier, E.J. Crawford, M. Ehle, A. De Horta, W. Pietsch, N.F.H. Tothill and G. Wong: Active galactic nuclei behind the SMC selected from radio and X-ray surveys. *Astron. Astrophys.* 558, A101 (2013).
- Sturm, R., F. Haberl, L.M. Oskinova, M.P.E. Schurch, V. Hénault-Brunet, J.S. Gallagher and A. Udalski: Long-term evolution of the neutron-star spin period of SXP 1062. *Astron. Astrophys.* 556, A139 (2013).
- Sturm, R., F. Haberl, W. Pietsch and A. Udalski: RX J0123.4-7321, a Be/X-ray binary in the wing of the Small Magellanic Cloud. *Astron. Astrophys.* 551, A96 (2013).
- Sturm, R., F. Haberl, W. Pietsch, J. Ballet, D. Hatzidimitriou, D.A.H. Buckley, M. Coe, M. Ehle, M.D. Filipović, N. La Palombara and A. Tiengo: The XMM-Newton survey of the Small Magellanic Cloud: The X-ray point-source catalogue. *Astron. Astrophys.* 558, A3 (2013).
- Sudilovsky, V., J. Greiner, A. Rau, M. Salvato, S. Savaglio, S.D. Vergani, P. Schady, J. Elliott, T. Krühler, D.A. Kann, S. Klose, A. Rossi, R. Filgas and S. Schmidl: Clustering of galaxies around gamma-ray burst sight-lines. *Astron. Astrophys.* 552, A143 (2013).
- Summa, A., A. Ulyanov, M. Kromer, S. Boyer, F.K. Röpkke, S.A. Sim, I.R. Seitenzahl, M. Fink, K. Mannheim, R. Pakmor, F. Ciaraldi-Schoolmann, R. Diehl, K. Maeda and W. Hillebrandt: Gamma-ray diagnostics of Type Ia supernovae. Predictions of observables from three-dimensional modeling. *Astron. Astrophys.* 554, A67 (2013).
- Symeonidis, M., J. Kartaltepe, M. Salvato, A. Bongiorno, M. Brusa, M.J. Page, O. Ilbert, D. Sanders and A. v. d. Wel: AGN in dusty hosts: implications for galaxy evolution. *Mon. Not. R. Astron. Soc.* 433, 1015-1022 (2013).
- Symeonidis, M., M. Vaccari, S. Berta, M.J. Page, D. Lutz, V. Arumugam, H. Aussel, J. Bock, A. Boselli, V. Buat, P.L. Capak, D.L. Clements, A. Conley, L. Conversi, A. Cooray, C.D. Dowell, D. Farrah, A. Franceschini, E. Giovannoli, J. Glenn, M. Griffin, E. Hatziminaoglou, H.-S. Hwang, E. Ibar, O. Ilbert, R.J. Ivison, E.L. Floc'h, S. Lilly, J.S. Kartaltepe, B. Magnelli, G. Magdis, L. Marchetti, H.T. Nguyen, R. Nordon, B. O'Halloran, S.J. Oliver, A. Omont, A. Pappageorgiou, H. Patel, C.P. Pearson, I. Pérez-Fournon, M. Pohlen, P. Popesso, F. Pozzi, D. Rigopoulou, L. Riguccini, D. Rosario, I.G. Roseboom, M. Rowan-Robinson, M. Salvato, B. Schulz, D. Scott, N. Seymour, D.L. Shupe, A.J. Smith, I. Valtchanov, L. Wang, C.K. Xu, M. Zemcov and S. Wuyts: The Herschel census of infrared SEDs through cosmic time. *Mon. Not. R. Astron. Soc.* 431, 2317-2340 (2013).
- Sánchez, A.G., E.A. Kazin, F. Beutler, C.-H. Chuang, A.J. Cuesta, D.J. Eisenstein, M. Manera, F. Montesano, R.C. Nichol, N. Padmanabhan, W. Percival, F. Prada, A.J. Ross, D.J. Schlegel, J. Tinker, R. Tojeiro, D.H. Weinberg, X. Xu, J. Brinkmann, J.R. Brownstein, D.P. Schneider and D. Thomas: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological constraints from the full shape of the clustering wedges. *Mon. Not. R. Astron. Soc.* 433, 1202-1222 (2013).
- Tacconi, L.J., R. Neri, R. Genzel, F. Combes, A. Bolatto, M.C. Cooper, S. Wuyts, F. Bournaud, A. Burkert, J. Comerford, P. Cox, M. Davis, N.M. Förster Schreiber, S. García-Burillo, J. Gracia-Carpio, D. Lutz, T. Naab, S. Newman, A. Omont, A. Saintonge, K. Shapiro Griffin, A. Shapley, A. Sternberg and B. Weiner: Phibss: Molecular Gas Content and Scaling Relations in  $z \sim 1-3$  Massive, Main-sequence Star-forming Galaxies. *Ap. J.* 768, 74 (2013).
- Tacconi-Garman, L.E. and E. Sturm: 3.3  $\mu\text{m}$  PAH observations of the central kiloparsecs of Centaurus A. *Astron. Astrophys.* 551, A139 (2013).
- Tafalla, M., R. Liseau, B. Nisini, R. Bachiller, J. Santiago-García, E.F. van Dishoeck, L.E. Kristensen, G.J. Herczeg and U.A. Yildiz: High-pressure, low-abundance water in bipolar outflows. Results from a Herschel-WISH survey. *Astron. Astrophys.* 551, A116 (2013).
- Tanaka, M., A. Finoguenov, M. Mirkazemi, D.J. Wilman, J.S. Mulchaey, Y. Ueda, Y. Xue, W.N. Brandt and N. Cappelluti: An X-Ray Detected Group of Quiescent Early-Type Galaxies at  $z = 1.6$  in the Chandra Deep Field South. *Publ. Astron. Soc. Jpn.* 65, 17 (2013).
- Tanaka, M., S. Toft, D. Marchesini, A. Zirm, C. De Breuck, T. Kodama, Y. Koyama, J. Kurk and I. Tanaka: On the Formation Timescale of Massive Cluster Ellipticals Based on Deep Near-infrared Spectroscopy at  $z \sim 2$ . *Ap. J.* 772, 113 (2013).
- Tanaka, Y.: An Unscheduled Journey: From Cosmic Rays into Cosmic X-Rays. *Annual Review* 51, 1-20 (2013).
- Teng, S.H., S. Veilleux and A.J. Baker: Green Bank Telescope detection of polarization-dependent H I absorption and H I outflows in local ULIRGs and quasars. *Ap. J.* 765(2): 95, pp. 1-18 (2013).
- Thomas, D., O. Steele, C. Maraston, J. Johansson, A.

- Beifiori, J. Pforr, G. Strömbäck, C.A. Tremonti, D. Wake, D. Bizyaev, A. Bolton, H. Brewington, J.R. Brownstein, J. Comparat, J.-P. Kneib, E. Malanushenko, V. Malanushenko, D. Oravetz, K. Pan, J.K. Parejko, D.P. Schneider, A. Shelden, A. Simmons, S. Snedden, M. Tanaka, B.A. Weaver and R. Yan: Stellar velocity dispersions and emission line properties of SDSS-III/BOSS galaxies. *Mon. Not. R. Astron. Soc.* 431, 1383-1397 (2013).
- Thöne, C.C., J.P.U. Fynbo, P. Goldoni, A.P. de Ugarte, S. Campana, S.D. Vergani, S. Covino, T. Krühler, L. Kaper, N. Tanvir, T. Zafar, V. D'Elia, J. Gorosabel, J. Greiner, P. Groot, F. Hammer, P. Jakobsson, S. Klose, A.J. Levan, B. Milvang-Jensen, A.G. Nicuesa, E. Palazzi, S. Piranomonte, G. Tagliaferri, D. Watson, K. Wiersema and R.A.M.J. Wijers: GRB 100219A with X-shooter - abundances in a galaxy at  $z = 4.7$ . *Mon. Not. R. Astron. Soc.* 428, 3590-3606 (2013).
- Tierney, D., M.S. Briggs, G. Fitzpatrick, V.L. Chaplin, S. Foley, S. McBreen, V. Connaughton, S. Xiong, D. Byrne, M. Carr, P.N. Bhat, G.J. Fishman, J. Greiner, R.M. Kippen, C.A. Meegan, W.S. Paciesas, R.D. Preece, A. von Kienlin and C. Wilson-Hodge: Fluence distribution of terrestrial gamma ray flashes observed by the Fermi Gamma-ray Burst Monitor. *J. Geophys. Res. (Space Phys.)* 118, 6644-6650 (2013).
- Tierney, D., S. McBreen, R.D. Preece, G. Fitzpatrick, S. Foley, S. Guiriec, E. Bissaldi, M.S. Briggs, J.M. Burgess, V. Connaughton, A. Goldstein, J. Greiner, D. Gruber, C. Kouveliotou, S. McGlynn, W.S. Paciesas, V. Pelassa and A. von Kienlin: Anomalies in low-energy gamma-ray burst spectra with the Fermi Gamma-ray Burst Monitor. *Astron. Astrophys.* 550, A102 (2013).
- Trümper, J.E., K. Dennerl, N.D. Kylafis, Ü. Ertan and A. Zezas: An Accretion Model for the Anomalous X-Ray Pulsar 4U 0142+61. *Ap. J.* 764, 49 (2013).
- Ulubay-Siddiki, A., H. Bartko and O. Gerhard: On the possibility of a warped disc origin of the inclined stellar discs at the Galactic Centre. *Mon. Not. R. Astron. Soc.* 428, 1986-2000 (2013).
- Usui, F., T. Kasuga, S. Hasegawa, M. Ishiguro, D. Kuroda, T.G. Müller, T. Ootsubo and H. Matsuhara: Albedo Properties of Main Belt Asteroids Based on the All-Sky Survey of the Infrared Astronomical Satellite AKARI. *Ap. J.* 762, 56 (2013).
- Valtchanov, I., B. Altieri, S. Berta, E. Chapin, D. Coia, L. Conversi, H. Dannerbauer, H. Domínguez-Sánchez, T.D. Rawle, M. Sánchez-Portal, J.S. Santos and S. Temporin: Serendipitous detection of an overdensity of Herschel-SPIRE 250  $\mu\text{m}$  sources south of MRC 1138-26. *Mon. Not. R. Astron. Soc.* 436, 2505-2514 (2013).
- van der Marel, N., E.F. van Dishoeck, S. Bruderer, T. Birnstiel, P. Pinilla, C.P. Dullemond, T.A. van Kempen, M. Schmalzl, J.M. Brown, G.J. Herczeg, G.S. Mathews and V. Geers: A Major Asymmetric Dust Trap in a Transition Disk. *Science* 340, 1199-1202 (2013).
- van der Marel, N., L.E. Kristensen, R. Visser, J.C. Mottram, U.A. Yildiz and E.F. van Dishoeck: Outflow forces of low-mass embedded objects in Ophiuchus: a quantitative comparison of analysis methods. *Astron. Astrophys.* 556, A76 (2013).
- van der Tak, F.F.S., L. Chavarría, F. Herpin, F. Wyrowski, C.M. Walmsley, E.F. van Dishoeck, A.O. Benz, E.A. Bergin, P. Caselli, M.R. Hogerheijde, D. Johnstone, L.E. Kristensen, R. Liseau, B. Nisini and M. Tafalla: Water in star-forming regions with Herschel (WISH). IV. A survey of low-J  $\text{H}_2\text{O}$  line profiles toward high-mass protostars. *Astron. Astrophys.* 554, A83 (2013).
- van Dishoeck, E.F., E. Herbst and D.A. Neufeld: Interstellar Water Chemistry: From Laboratory to Observations. *Chemical Reviews* 113, 9043-9085 (2013).
- van Dokkum, P.G., J. Leja, E.J. Nelson, S. Patel, R.E. Skelton, I. Momcheva, G. Brammer, K.E. Whitaker, B. Lundgren, M. Fumagalli, C. Conroy, N.M. Förster Schreiber, M. Franx, M. Kriek, I. Labbé, D. Marchesini, H.-W. Rix, A. van der Wel, A. and S. Wuyts: The assembly of Milky Way-like galaxies since  $z \sim 2.5$ . *Ap. J. Lett.* 771, L35 (2013).
- van Dokkum, P.G., J. Leja, E.J. Nelson, S. Patel, R.E. Skelton, I. Momcheva, G. Brammer, K.E. Whitaker, B. Lundgren, M. Fumagalli, C. Conroy, N. Förster Schreiber, M. Franx, M. Kriek, I. Labbe, D. Marchesini, H.-W. Rix, A. van der Wel and S. Wuyts: The assembly of Milky-Way-like galaxies since  $z \sim 2.5$ . *Ap. J. Lett.* 771, 35-42 (2013).
- Vasilopoulos, G., P. Maggi, F. Haberl, R. Sturm, W. Pietsch, E.S. Bartlett and M.J. Coe: Swift J053041.9-665426, a new Be/X-ray binary pulsar in the Large Magellanic Cloud. *Astron. Astrophys.* 558, A74 (2013).
- Veilleux, S., M. Meléndez, E. Sturm, J. Gracia-Carpio, J. Fischer, E. González-Alfonso, A. Contursi, D. Lutz, A. Poglitsch, R. Davies, R. Genzel, L. Tacconi, J.A. de Jong, A. Sternberg, H. Netzer, S. Hailey-Dunsheath, A. Verma, D.S.N. Rupke, R. Maiolino, S.H. Teng and E. Polisensky: Fast Molecular Outflows in Luminous Galaxy Mergers: Evidence for Quasar Feedback from Herschel. *Ap. J.* 776, 27 (2013).
- Veilleux, S., M. Trippe, F. Hamann, D.S.N. Rupke, T.M. Tripp, H. Netzer, D. Lutz, K.R. Sembach, H. Krug, S.H. Teng, R. Genzel, R. Maiolino, E. Sturm and L. Tacconi: The Surprising Absence of Absorption in the Far-ultraviolet Spectrum of Mrk 231. *Ap. J.* 764, 15 (2013).
- Villar-Martín, M., M. Rodríguez, G. Drouart, B. Emonts, L. Colina, A. Humphrey, S. García Burillo, J. Graciá Carpio, P. Planesas, M. Pérez Torres and S. Arribas: Molecular gas in type 2 quasars at  $z \sim 0.2-0.3$ . *Mon. Not. R. Astron. Soc.* 434, 978-991 (2013).
- Visser, R., J.K. Jørgensen, L.E. Kristensen, E.F. van Dishoeck and E.A. Bergin: Hot Water in the Inner 100 AU of the Class 0 Protostar NGC 1333 IRAS2A. *Ap. J.* 769, 19 (2013).
- Vitale, M., M. Mignoli, A. Cimatti, ..., A. Bongiorno, ..., K. Caputi, et al.: Investigating the relationship between AGN activity and stellar mass in zCOSMOS galaxies at  $0 < z < 1$  using emission-line diagnostic diagrams. *Astron. Astrophys.* 556: A11, pp. 1-20 (2013).
- Vito, F., C. Vignali, R. Gilli, A. Comastri, K. Iwasawa, W.N. Brandt, D.M. Alexander, M. Brusa, B. Lehmer, F.E. Bauer,

- D.P. Schneider, Y.Q. Xue and B. Luo: The high-redshift ( $z > 3$ ) active galactic nucleus population in the 4-Ms Chandra Deep Field-South. *Mon. Not. R. Soc.*, 428(1), 354-369 (2013).
- Vollmer, B. and R. Davies: The quenching of star formation in accretion-driven clumpy turbulent tori of active galactic nuclei. *Astron. Astrophys.* 556, A31, (2013).
- Volonteri, M., M. Sikora, J.-P. Lasota and A. Merloni: The Evolution of Active Galactic Nuclei and their Spins. *Ap. J.* 775, 94 (2013).
- von Glasow, W., M.G.H. Krause, J. Sommer-Larsen and A. Burkert: Galactic winds – how to launch galactic outflows in typical Lyman-break galaxies. *Mon. Not. R. Soc.*, 434(2), 1151-1170 (2013).
- Walker, S.A., A.C. Fabian and J.S. Sanders: An XMM-Newton view of the merging activity in the Centaurus cluster. *Mon. Not. R. Astron. Soc.* 435, 3221-3230 (2013).
- Walker, S.A., A.C. Fabian, J.S. Sanders, A. Simionescu and Y. Tawara: X-ray exploration of the outskirts of the nearby Centaurus cluster using Suzaku and Chandra. *Mon. Not. R. Astron. Soc.* 432, 554-569 (2013).
- Wampfler, S.F., S. Bruderer, A. Karska, G.J. Herczeg, E.F. van Dishoeck, L.E. Kristensen, J.R. Goicoechea, A.O. Benz, S.D. Doty, C. McCoey, A. Baudry, T. Giannini and B. Larsson: OH far-infrared emission from low- and intermediate-mass protostars surveyed with Herschel-PAC. *Astron. Astrophys.* 552, A56 (2013).
- Wegg, C. and O. Gerhard: Mapping the three-dimensional density of the Galactic bulge with VVV red clump stars. *Mon. Not. R. Astron. Soc.* 435, 1874-1887 (2013).
- Weißmann, A., H. Böhringer and G. Chon: Probing the evolution of the substructure frequency in galaxy clusters up to  $z \sim 1$ . *Astron. Astrophys.* 555, A147 (2013).
- Weißmann, A., H. Böhringer, R. Šuhada and S. Ameglio: Studying the properties of galaxy cluster morphology estimators. *Astron. Astrophys.* 549, A19 (2013).
- Welz, C., S. Becker, Y.-F. Li, T. Shimizu, J. Jeon, S. Schwenk-Zieger, H.M. Thomas, G. Isbary, G.E. Morfill, U. Harréus and J.L. Zimmermann: Effects of cold atmospheric plasma on mucosal tissue culture. *Journal of Physics D Applied Physics* 46, 045401 (2013).
- Willis, J.P., N. Clerc, M.N. Bremer, M. Pierre, C. Adami, O. Ilbert, B. Maughan, S. Maurogordato, F. Pacaud, I. Valtchanov, L. Chiappetti, K. Thanjavur, S. Gwyn, E.R. Stanway and C. Winkworth: Distant galaxy clusters in the XMM Large Scale Structure survey. *Mon. Not. R. Astron. Soc.* 430, 134-156 (2013).
- Wilman, D.J., F. Fontanot, G. De Lucia, P. Erwin and P. Monaco: The hierarchical origins of observed galaxy morphology. *Mon. Not. R. Astron. Soc.* 433, 2986-3004 (2013).
- Wisnioski, E., K. Glazebrook, C. Blake and A.M. Swinbank: Dust properties of clumpy disc galaxies at  $z \sim 1.3$  with Herschel-SPIRE. *Mon. Not. R. Astron. Soc.* 436, 266-274 (2013).
- Woerner, L., A.V. Ivlev, L. Couédel, P. Huber, M. Schwabe, T. Hagl, M. Mikikian, L. Boufendi, A. Skvortsov, A.M. Lipaev, V.I. Molotkov, O.F. Petrov, V.E. Fortov, H.M. Thomas and G.E. Morfill: The effect of a direct current field on the microparticle charge in the plasma afterglow. *Phys. Plasmas* 20, 123702, (2013).
- Wuyts, S., N.M. Förster Schreiber, E.J. Nelson, P.G. van Dokkum, G. Brammer, Y.-Y. Chang, S.M. Faber, H.C. Ferguson, M. Franx, M. Fumagalli, R. Genzel, N.A. Grogin, D.D. Kocevski, A.M. Koekemoer, B. Lundgren, D. Lutz, E.J. McGrath, I. Momcheva, D. Rosario, R.E. Skelton, L.J. Tacconi, A. van der Wel and K.E. Whitaker: A CANDELS-3D-HST synergy: Resolved Star Formation Patterns at  $0.7 < z < 1.5$ . *Ap. J.* 779, 135 (2013).
- Yildiz, U.A., K. Acharyya, P.F. Goldsmith, E.F. van Dishoeck, G. Melnick, R. Snell, R. Liseau, J.-H. Chen, L. Paganì, E. Bergin, P. Caselli, E. Herbst, L.E. Kristensen, R. Visser, D.C. Lis and M. Gerin: Deep observations of O2 toward a low-mass protostar with Herschel-HIFI. *Astron. Astrophys.* 558, A58 (2013).
- Yildiz, U.A., L.E. Kristensen, E.F. van Dishoeck, I. San José-García, A. Karska, D. Harsono, M. Tafalla, A. Fuente, R. Visser, J.K. Jørgensen and M.R. Hogerheijde: High-J CO survey of low-mass protostars observed with Herschel-HIFI. *Astron. Astrophys.* 556, A89 (2013).
- Yan, X., J. Labelle, G. Haerendel, M. Spasojevic, N. Bunch, D.I. Golden, H.U. Frey and A.T. Weatherwax: Day-side auroral hiss observed at South Pole Station. *J. Geophys. Res. (Space Phys.)* 118, 1220-1230 (2013).
- Yaroshenko, V.V., S.A. Khrapak and G.E. Morfill: Relationship between the ion drag and electric forces in dense dust clouds. *Phys. Plasmas* 20, 043703 (2013).
- Yaroshenko, V.V., S.A. Khrapak, H.M. Thomas and G.E. Morfill: Dust Density Waves in Weak Electric Fields: Effect of the Dust Number Density. *IEEE Trans. Plasma Sci.* 41, 2446-2450 (2013).
- Zauderer, B.A., E. Berger, R. Margutti, A.J. Levan, F. Olivares E., D.A. Perley, W. Fong, A. Horesh, A.C. Updike, J. Greiner, N.R. Tanvir, T. Laskar, R. Chornock, A.M. Soderberg, K.M. Menten, E. Nakar, J. Carpenter, P. Chandra, A.J. Castro-Tirado, M. Bremer, J. Gorosabel, S. Guziy, D. Pérez-Ramírez and J.M. Winters: Illuminating the Darkest Gamma-Ray Bursts with Radio Observations. *Ap. J.* 767, 161 (2013).
- Zendejas Dominguez, J., J. Koppenhoefer, R.P. Saglia, J.L. Birkby, S.T. Hodgkin, G. Kovács, D.J. Pinfield, B. Sipöcz, D. Barrado, R. Bender, C. del Burgo, M. Cappetta, E.L. Martín, S.V. Nefs, A. Riffeser and P. Steele: Searching for transits in the Wide Field Camera Transit Survey with difference-imaging light curves. *Astron. Astrophys.* 560, A92 (2013).
- Zhao, G.-B., S. Saito, W.J. Percival, A.J. Ross, F. Montesano, M. Viel, D.P. Schneider, M. Manera, J. Miralda-Escudé, N. Palanque-Delabrouille, N.P. Ross, L. Samushia, A.G. Sánchez, M.E.C. Swanson, D. Thomas, R. Tojeiro, C. Yèche and D.G. York: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: weighing the neutrino mass using the galaxy power spectrum of the CMASS sample. *Mon. Not. R. Astron. Soc.* 436, 2038-2053 (2013).

Zhukhovitskii, D.I., A.V. Ivlev, V.E. Fortov and G.E. Morfill: Onset of cavity deformation upon subsonic motion of a projectile in a fluid complex plasma. *Physical Review E* 87, 063108 (2013).

Ziparo, F., P. Popesso, A. Biviano, A. Finoguenov, S. Wu-yts, D. Wilman, M. Salvato, M. Tanaka, O. Ilbert, K. Nandra, D. Lutz, D. Elbaz, M. Dickinson, B. Altieri, H. Aussel, S. Berta, A. Cimatti, D. Fadda, R. Genzel, E. Le Flo'ch, B. Magnelli, R. Nordon, A. Poglitsch, F. Pozzi, M.S. Portal, L. Tacconi, F.E. Bauer, W.N. Brandt, N. Cappelluti, M.C. Cooper and J.S. Mulchaey: The lack of star formation gra-

dients in galaxy groups up to  $z \sim 1.6$ . *Mon. Not. R. Astron. Soc.* 434, 3089-3103 (2013).

Zitrin, A., M. Meneghetti, K. Umetsu, T. Broadhurst, M. Bartelmann, R. Bouwens, L. Bradley, M. Carrasco, D. Coe, H. Ford, D. Kelson, A.M. Koekemoer, E. Medezinski, J. Moustakas, L.A. Moustakas, M. Nonino, M. Postman, P. Rosati, G. Seidel, S. Seitz, I. Sendra, X. Shu, J. Vega and W. Zheng: CLASH: The Enhanced Lensing Efficiency of the Highly Elongated Merging Cluster MACS J0416.1-2403. *Ap. J. Lett.* 762, L30 (2013).

## Referierte Proceedings

Barry, J.A., A.B. Galvin, M. Popecki, B. Klecker, H. Kucharek, K. Simunac, C.J. Farrugia, J.G. Luhmann and L.K. Jian: Analysis of suprathreshold proton events observed by STEREO/PLASTIC focusing on the observation of bow shock/magnetospheric events. In Proc. of "Solar Wind 13", Big Island (Hawaii), USA, 2012. (Eds.) G.P. Zank, J. Borovsky, R. Bruno, et al. AIP Conf. Proc. 1539, American Institute of Physics, Melville, NY USA, 382-385 (2013).

Klecker, B.: Current understanding of SEP acceleration and propagation. *Journal of Physics Conf. Ser.* 409, 012015 (2013).

Popecki, M.A., B. Klecker, K.D.C. Simunac, A.B. Galvin and H. Kucharek: On the variability of He<sup>+</sup> suprathreshold tails. In Proc. of "Solar Wind 13", Big Island (Hawaii), USA, 2012. (Eds.) G.P. Zank, J. Borovsky, R. Bruno, et al. AIP Conf. Proc. 1539, American Institute of Physics, Melville, NY USA, 255-258 (2013).

Raimundo, S., R. Davies, P. Gandhi, A. Fabian, R. Canning and V. Ivanov: Probing the inner regions of MCG-06-30-15: the link between AGN activity and star formation. In: Proceedings of "Nuclei of Seyfert galaxies and QSOs - Central engine & conditions of star formation", MPIfR, Bonn, 2012. (Eds.) S. Komossa, A. Eckart, J. Zuther. Proceedings of Science, published online (<http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=1690>), (2013).

Rosario, D.J., D. Lutz and PEP Consortium: Star-formation in active galaxies to  $z \sim 2$ : a perspective from Herschel studies. In: Proceedings of "Nuclei of Seyfert galaxies and QSOs - Central engine & conditions of star formation", MPIfR, Bonn, 2012. (Eds.) S. Komossa, A. Eckart, J. Zuther. Proceedings of Science, published online (<http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=1690>), (2013).

Schartmann, M., A. Burkert, C. Alig, S. Gillessen, R. Genzel, F. Eisenhauer, T. Fritz and A. Ballone: Simulations of the origin and fate of the Galactic Center cloud G2. In: Proceedings of "Nuclei of Seyfert galaxies and QSOs - Central engine & conditions of star formation", MPIfR, Bonn, 2012. (Eds.) S. Komossa, A. Eckart, J. Zuther. Proceedings of Science, published online (<http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=1690>), (2013).

Skinner, G., P. Jean, J. Knödlseder, P. von Ballmoos, M. Leising, P. Milne and G. Weidenspointner: The 511 keV sky as seen by INTEGRAL/SPI, CGRO-OSSE and GRS/SMM combined. In: Proceedings of "The 9th INTEGRAL Workshop", Paris, France, 2012. (Eds.) A. Goldwurm, F. Lebrun, C. Winkler. Proceedings of Science, published online (<http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=176>), (2013).

Villforth, C., F. Hamann, A. Koekemoer, D. Rosario, T. Hamilton, E. McGrath, A. van der Wel, Y. Chang and Y. Guo: Morphologies of low-redshift AGN host galaxies: what role does AGN luminosity play? In: Proceedings of "Nuclei of Seyfert galaxies and QSOs - Central engine & conditions of star formation", MPIfR, Bonn, 2012. (Eds.) S. Komossa, A. Eckart, J. Zuther. Proceedings of Science, published online (<http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=1690>), (2013).

Zhang, X.-L., D. Gruber, J. Kiener and A. von Kienlin: INTEGRAL/SPI and Fermi/GBM Observations of the 2012 March 7th Solar Flares. In: Proceedings of "The 9th INTEGRAL Workshop", Paris, France, 2012. (Eds.) A. Goldwurm, F. Lebrun, C. Winkler. Proceedings of Science, published online (<http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=176>), (2013).



## Instrumentelle Publikationen

- Abboud, A., S. Send, N. Pashniak, W. Leitenberger, S. Ihle, M. Huth, R. Hartmann, L. Strüder and U. Pietsch: Sub-pixel resolution of a pnCCD for X-ray white beam applications. *Journal of Instrumentation* 8, 5005P (2013).
- Batic, M., G. Hoff, M.G. Pia, P. Saracco and G. Weidenspointner: Validation of Geant4 Simulation of Electron Energy Deposition. *IEEE Transactions on Nuclear Science* 60, 2934-2957 (2013).
- Bavdaz, M., E. Wille, K. Wallace, ..., V. Burwitz, et al.: X-ray optics developments at ESA. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88610L 12 pp. (2013).
- Breunig, E., P. Friedrich and A. Winter: Shape control of modular x-ray optics during integration and alignment: concepts and recent experiments at MPE. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88610Z 9 pp. (2013).
- Brucalassi, A., F. Grupp, F. Lang, L. Wang, C. Franik, H. Kellerm, S.M. Hu, U. Hopp and R. Bender: Pressure and temperature stabilization of an existing Échelle spectrograph IV. In Proc. of "Techniques and Instrumentation for Detection of Exoplanets VI", San Diego, USA, 2013. (Eds.) S. Shaklan. SPIE Conference Proceedings 8864E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88641H 8 pp. (2013).
- Burwitz, V., M. Bavdaz, G. Pareschi, M. Collon, W. Burkert, D. Spiga, G. Hartner, M. Ackermann, B. Menz and M. Civitani: In focus measurements of IXO type optics using the new PANTER x-ray test facility extension. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88611J 10 pp. (2013).
- Burwitz, V., P. Predehl, H. Bräuninger, W. Burkert, K. Dennerl, J. Eder, P. Friedrich, M. Fürmetz, G. Grisoni, G. Hartner, F. Marioni, B. Menz, E. Pfeiffermann and G. Valsecchi: Status of the eROSITA Telescope testing and calibrating the x-ray mirror assemblies. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88610J 10 pp. (2013).
- Civitani, M., M. Ghigo, S. Basso, L. Proserpio, D. Spiga, B. Salmaso, G. Pareschi, G. Tagliaferri, V. Burwitz, G. Hartner, B. Menz, M. Bavdaz and E. Wille: Direct hot slumping and accurate integration process to manufacture prototypal x-ray optical units made of glass. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 886110 24 pp. (2013).
- Collon, M.J., M. Ackermann, R. Günther, G. Vacanti, M.W. Beijersbergen, M. Bavdaz, E. Wille, K. Wallace, J. Hanefeld, M. Olde Riekerink, A. Koelewijn, C. van Baren, P. Müller, M. Krumrey, V. Burwitz, G. Sironi and M. Ghigo: Aberration-free silicon pore x-ray optics. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88610M 11 pp. (2013).
- Ghigo, M., L. Proserpio, S. Basso, O. Citterio, M.M. Civitani, G. Pareschi, B. Salmaso, G. Sironi, D. Spiga, G. Tagliaferri, G. Vecchi, A. Zambra, G. Parodi, F. Martelli, D. Gallieni, M. Tintori, M. Bavdaz, E. Wille, I. Ferrario and V. Burwitz: Slumping technique for the manufacturing of a representative x-ray grazing incidence mirror module for future space missions. In Proc. of "Optifab 2013", Rochester, USA, 2013. (Eds.) J.L. Bentley, M. Pfaff. SPIE Conference Proceedings 8884E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88841Q 14 pp. (2013).
- Granato, S., R. Andritschke, J. Elbs, N. Meidinger, L. Strüder, G. Weidenspointner, M. Krumrey and F. Scholze: Characterization of eROSITA PNCCDs. *IEEE Transactions on Nuclear Science* 60, 3150-3157 (2013).
- Grupp, F., E. Prieto, N. Geis, A. Bode, R. Katterloher, C. Bodendorf, M. Becker, S. Bogner and R. Bender: A tolerancing approach taking into account the interferometric alignment scheme of the EUCLID NISP space optics. In Proc. of "UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VI", San Diego, USA, 2013. (Eds.) H.A. MacEwen, J.B. Breckinridge. SPIE Conference Proceedings 8860E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88600G 11 pp. (2013).
- Grupp, F., N. Geis, R. Katterloher and R. Bender: Radiation damage to six selected optical materials. In Proc. of "UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VI", San Diego, USA, 2013. (Eds.) H.A. MacEwen, J.B. Breckinridge. SPIE Conference Proceedings 8860E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88600N 11 pp. (2013).
- Hauf, S., M. Kuster, M. Batic, Z.W. Bell, D.H.H. Hoffmann, P.M. Lang, S. Neff, M.G. Pia, G. Weidenspointner and A. Zoglauer: Radioactive Decays in Geant4. *IEEE Transactions on Nuclear Science* 60, 2966-2983 (2013).
- Hauf, S., M. Kuster, M. Batic, Z.W. Bell, D.H.H. Hoffmann, P.M. Lang, S. Neff, M.G. Pia, G. Weidenspointner and A. Zoglauer: Validation of Geant4-Based Radioactive Decay

- Simulation. *IEEE Transactions on Nuclear Science* 60, 2984-2997 (2013).
- Koppenhoefer, J., R.P. Saglia and A. Riffeser: MDia and POTS. The Munich difference imaging analysis for the pre-OmegaTranS project. *Experimental Astronomy* 35, 329-336 (2013).
- Manghisoni, M., D. Comotti, E. Quartieri, P. Fischer and M. Porro: Pixel-Level Charge and Current Injection Circuit for High Accuracy Calibration of the DSSC Chip at the European XFEL. *IEEE Transactions on Nuclear Science* 60, 3852-3861 (2013).
- Meidinger, N., R. Andritschke, F. Aschauer, W. Bornemann, V. Emberger, T. Eraerds, M. Fürmetz, O. Hälker, G. Hartner, W. Kink, S. Müller, D. Pietschner, P. Predehl, J. Reiffers, S. Walther and G. Weidenspointner: Progress of the x-ray CCD camera development for the eROSITA telescope. In Proc. of "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVIII", San Diego, USA, 2013. (Eds.) O.H. Siegmund. SPIE Conference Proceedings 8859E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88590B 12 pp. (2013).
- Menz, B., C. Braig, H. Bräuninger, V. Burwitz, G. Hartner and P. Predehl: Characterising x-ray optics with a collimated x-ray beam: the zone plate approach. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88611L 6 pp. (2013).
- Menz, B., H. Bräuninger, W. Burkert, V. Burwitz, P. Friedrich and G. Hartner: Alignment of eROSITA like mirrors at the PANTER x-ray test facility. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88611I 8 pp. (2013).
- Nielbock, M., T. Müller, U. Klaas, B. Altieri, Z. Balog, N. Billet, H. Linz, K. Okumura, M. Sánchez-Portal and M. Sauvage: The Herschel PACS photometer calibration. A time dependent flux calibration for the PACS chopped point-source photometry AOT mode. *Experimental Astronomy* 36, 631-660 (2013).
- Porro, M., D. Bianchi, G. De Vita, R. Hartmann, G. Hauser, S. Herrmann, L. Strüder and A. Wassatsch: VERITAS: A 128-Channel ASIC for the Readout of pnCCDs and DEPFET Arrays for X-Ray Imaging, Spectroscopy and XFEL Applications. *IEEE Transactions on Nuclear Science* 60, 446-455 (2013).
- Saglia, R.P., J. Snigula, R. Senger and R. Bender: Implementation of PhotoZ under Astro-WISE. A photometric redshift code for large datasets. *Experimental Astronomy* 35, 337-344 (2013).
- Soffitta, P., E. Costa, E. Del Monte, S. Fabiani, F. Muleri, A. Rubini, D. Spiga, G. Tagliaferri, G. Pareschi, S. Basso, O. Citterio, R. Bellazzini, A. Brez, L. de Ruvo, M. Minuti, M. Pinchera, C. Sgró, G. Spandre, V. Burwitz, W. Burkert, B. Menz and G. Hartner: The gas pixel detector at the focus of an x-ray optics. In Proc. of "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVI-II", San Diego, USA, 2013. (Eds.) O.H. Siegmund. SPIE Conference Proceedings 8859E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88590N 9 pp. (2013).
- Soffitta, P., X. Barcons, R. Bellazzini, ..., V. Burwitz, et al.: XIPE: the X-ray imaging polarimetry explorer. *Experimental Astronomy* 36, 523-567 (2013).
- Spiga, D., S. Basso, M. Bavdaz, V. Burwitz, M. Civitani, O. Citterio, M. Ghigo, G. Hartner, B. Menz, G. Pareschi, L. Proserpio, B. Salmaso, G. Tagliaferri and E. Wille: Profile reconstruction of grazing-incidence x-ray mirrors from intra-focal x-ray full imaging. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88611F 17 pp. (2013).
- Tiedemann, L., E. Breunig, V. Burwitz, M. Fürmetz, G. Hartner, W. Kink, B. Menz, P. Predehl, H.-P. Röser, M. Schlecker and G. Valsecchi: The development of the  $\mu$ ROSI X-ray telescope. In Proc. of "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVI-II", San Diego, USA, 2013. (Eds.) O.H. Siegmund. SPIE Conference Proceedings 8859E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 885905 14 pp. (2013).
- Winter, A., E. Breunig, V. Burwitz, P. Friedrich, G. Hartner, B. Menz and L. Proserpio: Light-weight glass mirror systems for future x-ray telescopes. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VI", San Diego, USA, 2013. (Eds.) S.L. O'Dell, G. Pareschi. SPIE Conference Proceedings 8861E, SPIE - The International Society for Optical Engineering, Bellingham, WA USA, id. 88610Q 10 pp. (2013).

## Nicht-referierte Publikationen

- Aguirre, P., A.J. Baker, F. Menanteau, D. Lutz and L.J. Tacconi: High resolution near-infrared imaging of submillimeter galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 53-54 (2013).
- Aird, J., A. Comastri, M. Brusa, N. Cappelluti, A. Moretti, E. Vanzella, M. Volonteri, D. Alexander, J.M. Afonso, F. Fiore, I. Georgantopoulos, K. Iwasawa, A. Merloni, K. Nandra, R. Salvaterra, M. Salvato, P. Severgnini, K. Schawinski, F. Shankar, C. Vignali and F. Vito: The formation and growth of the earliest supermassive black holes. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Akylas, A., I. Georgantopoulos, A. Georgakakis, M. Brightman and K. Nandra: An online tool for fitting the X-ray background and estimating the contribution of Compton-thick AGN. Mem. Soc. Astron. Ital. 84, 679 (2013).
- Alatalo, K., K.E. Nyland, G. Graves, S. Deustua, J. Wrobel, L.M. Young, T.A. Davis, M. Bureau, E. Bayet, L. Blitz, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.T. de Zeeuw, E. Emsellem, S. Khochfar, D. Krajnovic, H. Kuntschner, S. Martín, R.M. McDermid, R. Morganti, T. Naab, M. Sarzi, N. Scott, P. Serra and A. Weijmans: AGN Feedback Driven Molecular Outflow in NGC 1266. In Proc. of "IAUS 290: Feeding compact objects: Accretion on all scales", Beijing, China, 2012. (Eds.) T. Belloni, M. Mendez, C. Zhang, S. Zhang. Proc. IAU 290, Cambridge University Press, Cambridge, UK, 175-176 (2013).
- Alatalo, K., K.E. Nyland, G. Graves, S. Deustua, L.M. Young, T.A. Davis, A.F. Crocker, M. Bureau, E. Bayet, L. Blitz, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.T. de Zeeuw, E. Emsellem, S. Khochfar, D. Krajnovic, H. Kuntschner, R.M. McDermid, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra and A. Weijmans: Quenching of Star Formation in Molecular Outflow Host NGC 1266. In Proc. of "IAUS 292: Molecular Gas, Dust, and Star Formation in Galaxies", Beijing, China, 2012. (Eds.) T. Wong, J. Ott. Proc. IAU 292, Cambridge University Press, Cambridge, UK, 371-371 (2013).
- Arnaboldi, M., A. Longobardi, O. Gerhard and S. Okamura: The planetary nebulae luminosity function and distances to the Virgo, Hydra I, and Coma Clusters. In Proc. of "IAUS 289: Advancing the physics of cosmic distances", Beijing, China, 2012. (Eds.) R. de Grijs, G. Bono. Proc. IAU 289, Cambridge University Press, Cambridge, UK, 287-291 (2013).
- Barret, D., K. Nandra, X. Barcons, A. Fabian, J.W. den Herder, L. Piro, M. Watson, J. Aird, G. Branduardi-Raymont, M. Cappi, F. Carrera, A. Comastri, E. Costantini, J. Croston, A. Decourchelle, C. Done, M. Dovciak, S. Ettori, A. Finoguenov, A. Georgakakis, P. Jonker, J. Kaastra, G. Matt, C. Motch, P. O'Brien, G. Pareschi, E. Pointecouteau, G. Pratt, G. Rauw, T. Reiprich, J. Sanders, S. Sciortino, R. Willingale and J. Wilms: Athena+: The first Deep Universe X-ray Observatory. In Proc. of "Annual meeting of the French Society of Astronomy and Astrophysics", Montpellier, France, 2013. (Eds.) L. Cambresy, F. Martins, E. Nuss, A. Palacios. In: SF2A-2013, 447-453 (2013).
- Batic, M., M.G. Pia, P. Saracco and G. Weidenspointner: PIXE simulation: Models, methods and technologies. In Proc. of "Application of Accelerators in Research and Industry", Fort Worth, USA, 2012. (Eds.) F.D. McDaniel, B.L. Doyle, G.A. Glass. AIP. Conf. Proc. 1525, American Institute of Physics, Melville, NY USA, 288-294 (2013).
- Becker, W.: Neutron star science with combining radio and X-ray data, Pathway to the Square Kilometre Array (The German White Paper). (Eds.) H.R. Klöckner, M. Kramer, H. Falcke, et al. Max-Planck-Institut für Radioastronomie, Bonn, published online, 109-111 (2013).
- Bik, A., T. Henning, A. Stolte, W. Brandner, D.A. Gouliermis, M. Gennaro, A. Pasquali, B. Rochau, H. Beuther, N. Ageorges, W. Seifert, Y. Wang and N. Kudryavtseva: Age spread in galactic star forming region W3 Main. In Proc. of "370 Years of Astronomy in Utrecht", Noordwijkerhout, The Netherlands, 2012. (Eds.) G. Pugliese, A. de Koter and M. Wijburg. ASP Conf. Ser. 470, Astronomical Society of the Pacific, San Francisco, CA USA, 367-371 (2013).
- Birkby, J.L., M. Cappelletta, P. Cruz, J. Koppenhoefer, O. Ivanyuk, A. Mustill, S.T. Hodgkin, D.J. Pinfield, B. Sipöcz, G. Kovács, R. Saglia and Y. Pavlenko: WTS-2 b: Too close for comfort?. In Proc. of "Hot Planets and Cool Stars", Garching, Germany, 2012. (Eds.) R. Saglia. EPJ Web of Conferences 47, EDP Sciences, Les Ulis, France, id. 01004 (2013).
- 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: Simulations of Binary Galaxy Mergers and the Link with Fast Rotators, Slow Rotators, and Kinematically Distinct Cores. In Proc. of "Galaxy Mergers". (Eds.) W.-H. Sun, C.K. Xu, N.Z. Scoville, and D.B. Sander. ASP Conf. Ser. 477, Astronomical Society of the Pacific, San Francisco, CA USA, 97 (2013).
- Brucalassi, A., L. Pasquini, M.T. Ruiz, P. Bonifacio, C. Lovis, R. Saglia, C. Melo, K. Biazzo, S. Randich and L. Bedin: Solar Stars and Planets in Open Clusters\*. In Proc. of "New Quests in Stellar Astrophysics III", Puerto Vallarta, Mexico, 2012. (Eds.) M. Chavez, E. Bertone, O. Vega and V. De la Luz. ASP Conf. Ser. 472, Astronomical Society of the Pacific, San Francisco, CA USA, 121 (2013).
- Busoni, L., M. Bonaglia, L. Carbonaro, T. Mazzoni, J. Antichi, S. Esposito, G. Orban de Xivry and S. Rabien: Integration and laboratory characterization of the ARGOS laser guide star wavefront sensors. In Proc. of "Third AO-4ELT Conference", Firenze, Italy, 2013. (Eds.) S. Esposito, L. Fini. Published online (<http://ao4elt3.sciencesconf.org/>), id. # 92 (2013).

- Cappi, M., C. Done, E. Behar, S. Bianchi, V. Braito, E. Costantini, M. Dadina, C. Feruglio, F. Fiore, S. Gallagher, P. Gandhi, N. Grosso, J. Kaastra, A. King, A. Lobban, R. Maiolino, E. Piconcelli, G. Ponti, D. Porquet, K. Pounds, D. Proga, P. Ranalli, J. Reeves, G. Risaliti, P. Rodriguez Hidalgo, E. Rovilos, S. Sim, G. Stewart, F. Tombesi, T.G. Tsuru, S. Vaughan, D. Wang and D. Worrall: Astrophysics of feedback in local AGN. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Cappetta, M., R.P. Saglia, J.L. Birkby, J. Koppenhoefer, D.J. Pinfield, S.T. Hodgkin, P. Cruz, G. Kovács and B. Sipőcz: WTS1 b: The first planet detected in the WFCAM Transit Survey. An inflated hot-Jupiter in a 3.35 day orbit around a late F-star. In Proc. of "Hot Planets and Cool Stars", Garching, Germany, 2012. (Eds.) R. Saglia. EPJ Web of Conferences 47, EDP Sciences, Les Ulis, France, id. 01003 (2013).
- Chang, Y.-Y., A. van der Wel, H.-W. Rix, S. Wuyts, S. Zibetti, B. Ramkumar and B. Holden: Shaping Galaxies: Internal Structure of the  $z \sim 2$  Galaxy Population. In Proc. of "Galaxy", Mergers. (Eds.) W.-H. Sun, C.K. Xu, N.Z. Scoville, and D.B. Sander. ASP Conf. Ser. 477, Astronomical Society of the Pacific, San Francisco, CA USA, 199 (2013).
- Corsini, E.M., G.A. Wegner, J. Thomas, R.P. Saglia, R. Bender and S.B. Pu: Further evidence for large central mass-to-light ratios in massive early-type galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 225-228 (2013).
- Croston, J.H., J.S. Sanders, S. Heinz, M.J. Hardcastle, I. Zhuravleva, L. Birzan, R.G. Bower, M. Brüggen, E. Churazov, A.C. Edge, S. Etori, A.C. Fabian, A. Finoguenov, J. Kaastra, M. Gaspari, M. Gitti, P.E.J. Nulsen, B.R. McNamara, E. Pointecouteau, T.J. Ponman, G.W. Pratt, D.A. Rafferty, T.H. Reiprich, D. Sijacki, D.M. Worrall, R.P. Kraft, I. McCarthy and M. Wise: AGN feedback in galaxy clusters and groups. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Dalla Vecchia, C., S. Khochfar and J. Schaye: The First Billion Years simulation project. Galactic outflows and metal enrichment. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 17-20 (2013).
- Davis, T.A., K. Alatalo, M. Bureau, L. Young, L. Blitz, A. Crocker, E. Bayet, M. Bois, F. Bournaud, M. Cappellari, R.L. Davies, P.-A. Duc, P.T. de Zeeuw, E. Emsellem, J. Falcon-Barroso, S. Khochfar, D. Krajnovic, H. Kuntschner, P.-Y. Lablanche, R.M. McDermid, R. Morganti, T. Naab, M. Sarzi, N. Scott, P. Serra and A. Weijmans: Revealing the origin of the cold ISM in massive early-type galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 324-327 (2013).
- De Marco, B.: Soft X-ray lags and the correlation with black hole mass in radio quiet AGN. Mem. Soc. Astron. Ital. 84, 703 (2013).
- Dovciak, M., G. Matt, S. Bianchi, T. Boller, L. Brenneman, M. Bursa, A. D'Ai, T. di Salvo, B. de Marco, R. Goosmann, V. Karas, K. Iwasawa, E. Kara, J. Miller, G. Miniutti, I. Papadakis, P.-O. Petrucci, G. Ponti, D. Porquet, Ch. Reynolds, G. Risaliti, A. Rozanska, L. Zampieri, A. Zezas and A. Young: The close environments of supermassive black holes. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- 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, R.M. McDermid, L. Michel-Dansac, R. Morganti, T. Naab, T. Oosterloo, M. Sarzi, N. Scott, P. Serra, A. Weijmans and L.M. Young: Probing the mass assembly of massive nearby galaxies with deep imaging. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 358-361 (2013).
- Eliche-Moral, M.C., M. Prieto, M. Balcells, D. Abreu, G. Barro, D. Cristóbal-Hornillos, L. Domínguez Palmero, P. Erwin, J. Gallego, R. Guzmán, A. Hempel, C. López-Sanjuan, P.G. Pérez-González and J. Zamorano: The evolutionary paths among galaxy types on the Red Sequence at  $0.3 < z < 1.5$ . In Proc. of "Fourth Science Meeting with the GTC", Santa Cruz de la Palma, Spain, 2011. (Eds.) C. Muñoz-Tuñón, J.M. Rodríguez-Espinosa. RevMexAA 42, Instituto de Astronomía, Universidad Nacional Autónoma de México, 24-25 (2013).
- Etori, S., G.W. Pratt, J. de Plaa, D. Eckert, J. Nevalainen, E.S. Battistelli, S. Borgani, J.H. Croston, A. Finoguenov, J. Kaastra, M. Gaspari, F. Gastaldello, M. Gitti, S. Molendi, E. Pointecouteau, T.J. Ponman, T.H. Reiprich, M. Roncarelli, M. Rossetti, J.S. Sanders, M. Sun, G. Trinchieri, F. Vazza, M. Arnaud, H. Böhringer, F. Brighenti, H. Dahle, S. De Grandi, J.J. Mohr, A. Moretti and S. Schindler: The astrophysics of galaxy groups and clusters. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Filgas, R.: Tackling the afterglow forward-shock model with GROND. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 223-227 (2013).
- Freundlich, J., F. Combes, L.J. Tacconi, M.C. Cooper, R. Genzel and R. Neri: Star formation efficiency at high  $z$  and subgalactic scales. In Proc. of "Annual meeting of the French Society of Astronomy and Astrophysics", Montpellier, France, 2013. (Eds.) L. Cambresy, F. Martins, E. Nuss, A. Palacios. In: SF2A-2013, 343-346 (2013).
- Gallego, J., M. Prieto, M.C. Eliche-Moral, M. Balcells, D. Cristóbal-Hornillos, P. Erwin, D. Abreu, L. Domínguez-Palmero, A. Hempel, C. López-Sanjuan, R. Guzmán, P.G. Pérez-González, G. Barro and J. Zamorano: Evolutionary

- paths among different red galaxy types at  $0.3 < z < 1.5$  and the build-up of massive E-S0's. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 176-176 (2013).
- Georgakakis, A., F. Carrera, G. Lanzuisi, M. Brightman, J. Buchner, J. Aird, M. Page, M. Cappi, J. Afonso, A. Alonso-Herrero, L. Ballo, X. Barcons, M.T. Ceballos, A. Comastri, I. Georgantopoulos, S. Mateos, K. Nandra, D. Rosario, M. Salvato, K. Schawinski, P. Severgnini and C. Vignali: Understanding the build-up of supermassive black holes and galaxies at the heyday of the Universe. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Gerhard, O.: Dark matter in massive galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 211-220 (2013).
- Gillessen, S., F. Eisenhauer, T.K. Fritz, O. Pfuhl, T. Ott and R. Genzel: The distance to the Galactic Center. In Proc. of "IAUS 289: Advancing the physics of cosmic distances", Beijing, China, 2012. (Eds.) R. de Grijs, G. Bono. Proc. IAU 289, Cambridge University Press, Cambridge, UK, 29-35 (2013).
- Gillessen, S.: The Black Hole in the Galactic Center. In Proc. of "The 9th LISA Symposium", Paris, France, 2012. (Eds.) P. Binetruy, G. Auger, and E. Plagnol. ASP Conf. Ser. 467, Astronomical Society of the Pacific, San Francisco, CA USA, 81 (2013).
- Guglielmetti, F., H. Böhringer, R. Fischer, P. Rosati and P. 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, USA, 2011. (Eds.) E.D. Feigelson, and G.J. Babu. Statistical Challenges in Modern Astronomy V, Springer New York, 501-504 (2013).
- Guglielmetti, F., R. Fischer and V. Dose: Background-source separation-not only for astronomical images. In Proc. of "Bayesian Inference and Maximum Entropy Methods in Science and Engineering", Garching, Germany, 2012. (Eds.) U. von Toussaint. AIP Conf. Proc. 1553, American Institute of Physics, Melville, NY USA, 30-37 (2013).
- Guglielmetti, F., R. Fischer and V. Dose: Bayesian mixture models for poisson astronomical images. In Proc. of "Statistical Challenges in Modern Astronomy V", Penn State University, USA, 2011. (Eds.) E.D. Feigelson, and G.J. Babu. Statistical Challenges in Modern Astronomy V, Springer New York, 197-202 (2013).
- Heinz, S. and A. Merloni: Exploring Regimes in Black Hole Scaling. In Proc. of "IAUS 290: Feeding compact objects: Accretion on all scales", Beijing, China, 2012. (Eds.) T. Belloni, M. Mendez, C. Zhang, S. Zhang. Proc. IAU 290, Cambridge University Press, Cambridge, UK, 29-36 (2013).
- Henze, M., W. Pietsch, F. Haberl, M. Hernanz, G. Sala, M.D. Valle, D. Hatzidimitriou, A. Rau, D.H. Hartmann, V. Burwitz and J. Greiner: Classical Novae as Supersoft X-ray Sources in the Andromeda Galaxy. In Proc. of "IAUS 281: Binary Paths to Type Ia Supernovae Explosion", Padova, Italy, 2011. (Eds.) R. Di Stefano, M. Orlo. Proc. IAU 281, Cambridge University Press, Cambridge, UK, 105-112 (2013).
- Hurley, K., A. Rau, A. Von Kienlin and X. Zhang: A decade of bursts with the SPI-ACS. In Proc. of "The 9th INTEGRAL Workshop", Paris, France, 2012. (Eds.) A. Goldwurm, F. Lebrun, C. Winkler. Proceedings of Science, published online (2013).
- Hurley, K., I.G. Mitrofanov, D. Golovin, ..., A. von Kienlin, X. Zhang, A. Rau, et al.: The Interplanetary Network. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 459-464 (2013).
- Isern, J., P. Jean, R. Diehl, J. Knödseder, A. Domingo, A. Hirschmann, P. Hoeflich, F. Lebrun, M. Renaud, S. Soldi, N. Elias-Rosa, M. Hernanz, B. Kulebi, X. Zhang, C. Badenes, I. Domínguez, D. Garcia-Senz, C. Jordi, G. Lichti, G. Vedrenne and P. von P. Ballmoos: Observations of SN2011fe with INTEGRAL. In Proc. of "The 9th INTEGRAL Workshop", Paris, France, 2012. (Eds.) A. Goldwurm, F. Lebrun, C. Winkler. Proceedings of Science, published online, (2013).
- Jonker, P., P. O'Brien, L. Amati, J.-L. Atteia, S. Campana, P. Evans, R. Fender, C. Kouveliotou, G. Lodato, J. Osborne, L. Piro, A. Rau, N. Tanvir and R. Willingale: Luminous extragalactic transients. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Kaastra, J., P.-O. Petrucci, M. Cappi, N. Arav, E. Behar, S. Bianchi, G. Branduardi-Raymont, E. Costantini, J. Ebrero, J. Kriss, M. Mehdipour, S. Paltani, C. Pinto, G. Ponti, K. Steenbrugge and C. de Vries: Accretion and outflow of gas in Markarian 509. In Proc. of "IAUS 290: Feeding compact objects: Accretion on all scales", Beijing, China, 2012. (Eds.) T. Belloni, M. Mendez, C. Zhang, S. Zhang. Proc. IAU 290, Cambridge University Press, Cambridge, UK, 45-48 (2013).
- Kaastra, J., A. Finoguenov, F. Nicastro, E. Branchini, J. Schaye, N. Cappelluti, J. Nevalainen, X. Barcons, J. Bregman, J. Croston, K. Dolag, S. Ettori, M. Galeazzi, T. Ohashi, L. Piro, E. Pointecouteau, G. Pratt, T. Reiprich, M. Roncarelli, J. Sanders, Y. Takei and E. Ursino: The missing baryons and the warm-hot intergalactic medium. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Koppenhoefer, J., T. Henning, R.P. Saglia, C. Obermeier, S. Kretschmann and N. Nikolov: The Pan-STARRS1 Planet Survey: Overview and first results. In Proc. of "Hot Planets and Cool Stars", Garching, Germany, 2012. (Eds.) R. Saglia. EPJ Web of Conferences 47, EDP Sciences, Les Ulis, France, id. 03002 (2013).
- Kormendy, J.: Supermassive black holes: coevolution (or not) of black holes and host galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing,

- China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 241-253 (2013).
- Kovács, G., S. Hodgkin, B. Sipöcz, D. Pinfield, D. Barrado, J. Birkby, M. Cappetta, P. Cruz, J. Koppenhoefer, E. Martín, F. Murgas, B. Nefs, R. Saglia and J. Zendejas: Hot Jupiters around M dwarfs. A sensitivity analysis of the WFCAM Transit Survey. In Proc. of "Hot Planets and Cool Stars", Garching, Germany, 2012. (Eds.) R. Saglia. EPJ Web of Conferences 47, EDP Sciences, Les Ulis, France, id. 01002 (2013).
- Krajnović, D., 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, H. Kuntschner, R.M. McDermid, R. Morganti, T. Naab, M. Sarzi, N. Scott, P. Serra, A. Weijmans and L.M. Young: Stellar discs in massive galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 314-314 (2013).
- Kümmel, M., J. Koppenhoefer, A. Riffeser, J. Mohr, S. Desai, R. Henderson, K. Paech and M. Wetzstein: Early Photometry Studies for Euclid. In Proc. of "Astronomical Data Analysis Software and Systems XXII", Champaign, USA, 2012. (Eds.) D.N. Friedel. ASP Conf. Ser. 475, Astronomical Society of the Pacific, San Francisco, CA USA, 357 (2013).
- Martins, F., N.M. Förster Schreiber, F. Eisenhauer and D. Lutz: A large population of red supergiants in the super star cluster NGC 1705-1. In Proc. of "Betelgeuse Workshop 2012", Paris, France, 2012. (Eds.) P. Kervella, T. Le Bertre and G. Perrin. EAS Publ. Ser. 60, European Astronomical Society, 293-297 (2013).
- Merloni, A. and A. Bongiorno: Accreting SMBH in the COSMOS field: the connection to their host galaxies. Mem. Soc. Astron. Ital. 84, 675 (2013).
- Motch, C., J. Wilms, D. Barret, W. Becker, S. Bogdanov, L. Borin, S. Corbel, E. Cackett, S. Campana, D. de Martino, F. Haberl, J. in't Zand, M. Méndez, R. Mignani, J. Miller, M. Orío, D. Psaltis, N. Rea, J. Rodriguez, A. Rozanska, A. Schwöpe, A. Steiner, N. Webb, L. Zampieri and S. Zane: End points of stellar evolution. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Mueller-Sanchez, F., M. Malkan, E. Hicks and R. Davies: Measuring AGN Feedback Parameters From Seyfert Galaxy Outflows. In: Molecular Gas, Dust, and Star Formation in Galaxies. (Eds.) T. Wong, J. Ott. IAU Symposium Proceedings Vol. 292, Cambridge University Press, Cambridge, UK, 363-366 (2013).
- Müller, K., H. Ryll, I. Ordavo, M. Schowalter, J. Zweck, H. Soltau, S. Ihle, L. Strüder, K. Volz, P. Potapov and A. Rosenauer: STEM strain analysis at sub-nanometre scale using millisecond frames from a direct electron read-out CCD camera. Journal of Physics Conf. Ser. 471, 012024 (2013).
- Nandra, K., D. Barret, X. Barcons, ..., W. Becker, ..., T. Boller, ..., A. Georgakakis, ... P. Predehl, ..., M. Salvato, ..., J. Sanders, ..., A. Rau, et al.: A White Paper presenting the science theme motivating the Athena+ mission. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Nicuesa Guelbenzu, A., S. Klose, A. Rossi, S. Schmidl, J. Greiner, D.A. Kann, J. Elliott, F. Olivares E., A. Rau, P. Schady, V. Sudilovsky, T. Krühler, P. Ferrero, S. Schulze, P.M.J. Afonso, R. Filgas and M. Nardini: Short GRB afterglows observed with GROND. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 325-330 (2013).
- Oates, S.R., M.J. Page, M. De Pasquale, P. Schady, A.A. Breeveld, S.T. Holland, N.P.M. Kuin and F.E. Marshall: An intrinsic correlation between GRB optical/UV afterglow brightness and decay rate. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 211-215 (2013).
- Pointecouteau, E., T.H. Reiprich, C. Adami, ..., J. Sanders, ..., H. Boehringer, ..., J. Mohr, et al.: The evolution of galaxy groups and clusters. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).
- Powell, L.C., F. Bournaud, D. Chapon, J. Devriendt, V. Gaibler, S. Khochfar, A. Slyz and R. Teyssier: Enhancing and inhibiting star formation: high-resolution simulation studies of the impact of cold accretion, mergers and feedback on individual massive galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 13-16 (2013).
- Ponti, G., M.R. Morris, R. Terrier and A. Goldwurm: Traces of Past Activity in the Galactic Centre. In Proc. of "Cosmic Rays in Star-Forming Environments", Barcelona, Spain, 2012. (Eds.) D.F. Torres, O. Reimer. Astrophys. and Space Science Proc. 34, Springer Berlin, Germany, 331 (2013).
- Predehl, P.: eROSITA. Mem. Soc. Astron. Ital. 84, 770-775 (2013).
- Quiros-Pacheco, F., E. Pinna, A. Puglisi, L. Busoni, G. Agapito, S. Rabien and S. Esposito: Pyramid wavefront sensor performance with laser guide stars. In Proc. of "Third AO4ELT Conference", Firenze, Italy, 2013. (Eds.) S. Esposito, L. Fini. Published online (<http://ao4elt3.sciencesconf.org/>), id. # 15 (2013).
- Raab, W., S. Rabien, W. Gaessler, S. Esposito, J. Antichi, M. Lloyd-Hart, L. Barl, U. Beckmann, M. Bonaglia, J. Borelli, J. Brynnel, P. Buschkamp, L. Busoni, L. Carbonaro, J. Christou, C. Connot, R. Davies, M. Deysenroth, O. Durney, R. Green, H. Gemperlein, V. Gasho, M. Haug, P. Hubbard, S. Ihle, M. Kulas, C. Loose, M. Lehmitz, J. Noenickx, E. Nussbaum, G. Orban de Xivry, A. Quirrenbach, D. Peter, G. Rahmer, M. Rademacher, J. Storm, C. Schwab, V. Vaitheeswaran and J. Ziegler: Status of ARGOS - The Laser Guide Star System for the LBT. In Proc. of "Third AO4ELT Conference", Firenze, Italy, 2013. (Eds.) S. Esposito, L. Fini. Published online (<http://ao4elt3.sci->

encesconf.org/), id. # 106 (2013).

Rabien, S., F. Quiros-Pacheco, E. Pinna, L. Busoni and S. Esposito: NA- laser guide star AO with dynamical refocus. In Proc. of "Third AO4ELT Conference", Firenze, Italy, 2013. (Eds.) S. Esposito, L. Fini. Published online (<http://ao4elt3.sciencesconf.org/>), id. # 110 (2013).

Rau, A., N. Meidinger, K. Nandra, M. Porro, D. Barret, A. Santangelo, C. Schmid, L. Strüder, C. Tenzer, J. Wilms, C. Amoros, R. Andritschke, F. Aschauer, A. Bähr, B. Günther, M. Fürmetz, B. Ott, E. Perinati, D. Rambaud, J. Reiffers, J. Treis, A. von Kienlin and G. Weidenspointner: The Wide Field Imager (WFI) for Athena. White Paper: "The Hot and Energetic Universe", published online (<http://www.the-athena-x-ray-observatory.eu/>), (2013).

Remus, R.-S., A. Burkert, K. Dolag, P.H. Johansson, T. Naab, L. Oser and J. Thomas: The Dark Halo - Spheroid Conspiracy. In Proc. of "IAUS 295: The Intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 208-208 (2013).

Rossi, A., S. Klose, P. Ferrero, J. Greiner, A. Updike, D.A. Kann, T. Krühler and A. Nicuesa Guelbenzu: A deep search for the host galaxies of GRBs with no detected optical afterglow. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 431-433 (2013).

Saglia, R. and D. Pinfield: Preface. In Proc. of "Hot Planets and Cool Stars", Garching, Germany, 2012. (Eds.) R. Saglia. EPJ Web of Conferences 47, EDP Sciences, Les Ulis, France, id. 00001 (2013).

Sartore, N., S. Mereghetti, A. Tiengo, A. De Luca, R. Turolla and F. Haberl: Ten years of XMM-Newton observations of RX J1856.5-3754. Mem. Soc. Astron. Ital. 84, 600 (2013).

Savaglio, S. and U. Grothkopf: Swift Publication Statistics and the Comparison with Other Major Observatories. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 491-493 (2013).

Savaglio, S.: The Cosmic Evolution of Gamma-Ray Burst Host Galaxies. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 381-389 (2013).

Sharon, C.E., A.J. Baker, A.I. Harris, D. Lutz and L.J. Tacconi: Spatial Variation of CO Excitation in High-z Galaxies. In Proc. of "IAUS 292: Molecular Gas, Dust, and Star Formation in Galaxies", Beijing, China, 2012. (Eds.) T. Wong, J. Ott. Proc. IAU 292, Cambridge University Press, Cambridge, UK, 253-253 (2013).

Slowikowska, A., K. Goździewski, I. Nasiroglu, G. Kanbach, A. Rau and K. Krzeszowski: Investigating AM Her Cataclysmic Variables with the Optical Pulsar Timing Analyzer – OPTIMA. In Proc. of "18th European White Dwarf Workshop", Cracow, Poland, 2012. (Eds.) J. Krzesinski, G. Stachowski, P. Moskalik, and K. Bajan. ASP Conf. Ser. 469, Astronomical Society of the Pacific, San Francisco, CA USA, 363 (2013).

Steele, P.R., R.P. Saglia, J. Koppenhoefer, M.R. Burleigh and M. Cappetta: White dwarfs in the WTS: Eclipsing binaries. In Proc. of "Hot Planets and Cool Stars", Garching, Germany, 2012. (Eds.) R. Saglia. EPJ Web of Conferences 47, EDP Sciences, Les Ulis, France, id. 04001 (2013).

Sánchez-Ramírez, R., P. Hancock, T. Murphy, A. de Ugarte Postigo, J. Gorosabel, D.A. Kann, C.C. Thöne, A. Lundgren, A. Kamble, S.R. Oates, J.P.U. Fynbo, I. de Gregorio Monsalvo, D. Garcia-Appadoo, S. Martín, N.P.M. Kuin, J. Greiner and A.J. Castro-Tirado: GRB 110715A: Multiwavelength study of the first gamma-ray burst observed with ALMA. In Proc. of "Gamma-ray Bursts: 15 Years of GRB Afterglows", Malaga, Spain, 2012. (Eds.) A.J. Castro-Tirado, J. Gorosabel, I.H. Park. EAS Publ. Ser. 61, European Astronomical Society, 267-269 (2013).

Tanaka, Y.: My early days in X-ray astronomy. Mem. Soc. Astron. Ital. 84, 485 (2013).

Thomas, D., O. Steele, C. Maraston, J. Johansson, A. Beifiori, J. Pforr, G. Strömbäck, C.A. Tremonti and D. Wake: Stellar velocity dispersions and emission line properties of SDSS-III/BOSS galaxies. In Proc. of "IAUS 295: The intriguing life of massive galaxies", Beijing, China, 2012. (Eds.) D. Thomas, A. Pasquali, I. Ferreras. Proc. IAU 295, Cambridge University Press, Cambridge, UK, 129-132 (2013).

Trümper, J.: The history of X-ray astronomy in Germany. Mem. Soc. Astron. Ital. 84, 493 (2013).

Vito, F., C. Vignali, R. Gilli, A. Comastri, K. Iwasawa, W. Brandt, D. Alexander, M. Brusa, B. Lehmer, F. Bauer, D. Schneider, Y. Xue and B. Luo: The  $z > 3$  AGN population in the 4 Ms CDFS. In Proc. of "X-ray astronomy: towards the next 50 years!", Milano, Italy, 2012. (Eds.) G. Trinchieri, R. Della Ceca. Mem. Soc. Astron. Ital. 84, 685 (2013).

Yang, P., S. Hippler, C.P. Deen, W. Brandner, Y. Clénet, T. Henning, A. Huber, S. Kendrew, R. Lenzen, O. Pfuhl and J. Zhu: Characterization of the transmitted near-infrared wavefront error for the GRAVITY/VLTI Coudé Infrared Adaptive Optics System. Optics Express, 21(7), 9069-9080 (2013).

Zendejas, J., J. Koppenhoefer, R.P. Saglia, J.L. Birkby, S.T. Hodgkin, G. Kovács, D.J. Pinfield and B. Sipöcz: Precision photometry with difference imaging in the WTS. In Proc. of "Hot Planets and Cool Stars", Garching, Germany, 2012. (Eds.) R. Saglia. EPJ Web of Conferences 47, EDP Sciences, Les Ulis, France, id. 01005 (2013).

## Telegramme / Zirkulare / Datenkataloge

- Afonso, P., D.A. Kann, A. Nicuesa Guelbenzu, T. Kruehler, J. Elliott and J. Greiner: GRB 130606A: GROND detection of the Optical/NIR afterglow. *GCN Circ.* 14807, 1 (2013).
- Ashby, M.L., S. Mahajan, H.A. Smith, S.P. Willner, G.G. Fazio, S. Raychaudhury, A. Zezas, P. Barmby, P. Bonfini, C. Cao, C. Gonzalez-Alfonso, D. Ishihara, H. Kaneda, V. Lyttle, S. Madden, C. Papovich, E. Sturm, J. Surace, H. Wu and Y.N. Zhu: Star Formation Reference Survey (SFRS) (Ashby+, 2011). *VODC* 612, 31011 (2013).
- Böhringer, H., G. Chon, C.A. Collins, L. Guzzo, N. Nowak and S. Bobrovskiy: REFLEX II. Properties of the survey (Boehringer+ 2013). *VODC* 355, 59030 (2013).
- Bartlett, E.S., M.J. Coe, F. Haberl, V.A. McBride and R.H.D. Corbet: X-ray sources in the Phoenix dwarf galaxy (Bartlett+, 2012). *VODC* 742, 22302 (2013).
- Baumgartner, W.H., J. Tueller, C.B. Markwardt, G.K. Skinner, S. Barthelmy, R.F. Mushotzky, P.A. Evans and N. Gehrels: Hard X-ray survey from Swift-BAT 2004-2010 (Baumgartner+, 2013). *VODC* 220, 70019 (2013).
- Berta, S., D. Lutz, P. Santini, S. Wuyts, D. Rosario, D. Brisbin, A. Cooray, A. Franceschini, C. Gruppioni, E. Hatziminaoglou, H.S. Hwang, E. Le Floch, B. Magnelli, R. Nordon, S. Oliver, M.J. Page, P. Popesso, L. Pozzetti, F. Pozzi, L. Riguccini, G. Rodighiero, I. Roseboom, D. Scott, M. Symeonidis, I. Valtchanov, M. Viero and L. Wang: Panchromatic SED of Herschel sources (Berta+, 2013). *VODC* 355, 19100 (2013).
- Birkby, J., B. Nefs, S. Hodgkin, G. Kovacs, B. Sipocz, D. Pinfield, I. Snellen, D. Mislis, F. Murgas, N. Lodieu, E. de Mooij, N. Goulding, P. Cruz, H. Stoev, M. Cappetta, E. Palle, D. Barrado, R. Saglia, E. Martin and Y. Pavlenko: Detached M dwarf eclipsing binaries in WTS (Birkby+, 2012). *VODC* 742, 61507 (2013).
- Boehnhardt, H., C. Tubiana, N. Oklay, J.B. Vincent, U. Hopp, C. Ries, M. Schmidt, A. Riffeser and C. Goessl: Comet C/2012 S1 (Ison). *IAU Telegram* 3715, 1 (2013).
- Bottacini, E., M. Ajello and J. Greiner: Swift-INTEGRAL X-ray (SIX) survey (Bottacini+, 2012). *VODC* 220, 10034 (2013).
- Burtscher, L., K. Meisenheimer, K.R.W. Tristram, W. Jaffe, S.F. Honig, R.I. Davies, M. Kishimoto, J.-U. Pott, H. Rottgering, M. Schartmann, G. Weigelt and S. Wolf: VLT/MIDI AGN Large Program observations (Burtscher+, 2013). *VODC* 355, 89149 (2013).
- Byrne, D., A. von Kienlin and W. Paciesas: GRB 130623A: Fermi GBM detection. *GCN Circ.* 14940, 1 (2013).
- Lenko, S.B., J. Greiner and H.A. Krimm: Optical Spectroscopy of Swift J1741.5-6548. *The Astronomer's Telegram* 4919, 1 (2013).
- Lenko, S.B., V. Sudilovsky, M. Tanga and J. Greiner: GRB 130912A: P60 observations. *GCN Circ.* 15222, 1 (2013).
- Chiappetti, L., N. Clerc, F. Pacaud, M. Pierre, A. Gueguen, L. Paioro, M. Polletta, O. Melnyk, A. Elyiv, J. Surde and L. Faccioli: XMM-LSS catalogue. Version II. (Chiappetti+, 2013). *VODC* 742, 91652 (2013).
- Coe, M.J., A.J. Bird, J.A. Kennea, V.A. McBride, E.S. Bartlett, L.J. Townsend and F. Haberl: 17d optical period confirmed in X-rays from IGR J00569-7226. *The Astronomer's Telegram* 5631, 1 (2013).
- Coe, M.J., A.J. Bird, J.A. Kennea, V.A. McBride, E.S. Bartlett, L.J. Townsend and F. Haberl: 5.05s probable spin period detected in X-rays from IGR J00569-7226 = SXP5.05. *The Astronomer's Telegram* 5662, 1 (2013).
- Coe, M.J., A.J. Bird, V. McBride, E.S. Bartlett and F. Haberl: Detection of a new, bright X-ray source in the Small Magellanic Cloud. *The Astronomer's Telegram* 5547, 1 (2013).
- Dent, W.R.F., W.F. Thi, I. Kamp, ..., D. Fedele, et al.: Gas Survey of Protoplanetary Systems. I. (Dent+, 2013). *VODC* 612, 50477 (2013).
- Drinkwater, M.J., R.J. Jurek, C. Blake, D. Woods, K.A. Pimblet, K. Glazebrook, R. Sharp, M.B. Pracy, S. Brough, M. Colless, W.J. Couch, S.M. Croom, T.M. Davis, D. Forbes, K. Forster, D.G. Gilbank, M. Gladders, B. Jelliffe, N. Jones, I.-H. Li, B. Madore, D.C. Martin, G.B. Poole, T. Small, E. Wisnioski, T. Wyder and H.K.C. Yee: WiggleZ dark energy survey (DR1) (Drinkwater+, 2010). *VODC* 740, 11429 (2013).
- Ducci, L., M. Sasaki, F. Haberl, and W. Pietsch: XMM sources in M83 (NGC5236) (Ducci+, 2013). *VODC* 355, 39007 (2013).
- Dwelly, T. and G. Ponti: Ongoing X-ray activity from Sgr A\*. *The Astronomer's Telegram* 5008, 1 (2013).
- Dwelly, T., G. Ponti, F. Haberl and M. Clavel: Swift XRT spectrum of transient X-ray source at Sgr A\*'s position. *The Astronomer's Telegram* 5011, 1 (2013).
- Elbaz, D., M. Dickinson, H.S. Hwang, T. Diaz-Santos, G. Magdis, B. Magnelli, D. Le Borgne, F. Galliano, M. Pannella, P. Chanial, L. Armus, V. Charmandaris, E. Daddi, H. Aussel, P. Popesso, J. Kartaltepe, B. Altieri, I. Valtchanov, D. Coia, H. Dannerbauer, K. Dasyra, R. Leiton, J. Mazzarella, D.M. Alexander, V. Buat, D. Burgarella, R.-R. Chary, R. Gilli, R.J. Ivison, S. Juneau, E. Le Floch, D. Lutz, G.E. Morrison, J.R. Mullaney, E. Murphy, A. Pope, D. Scott, M. Brodwin, D. Calzetti, C. Cesarsky, S. Charlot, H. Dole, P. Eisenhardt, H.C. Ferguson, N. Foerster Schreiber, D. Frayer, M. Giavalisco, M. Huynh, A.M. Koekemoer, C. Papovich, N. Reddy, C. Surace, H. Teplitz, M.S. Yun and G. Wilson: GOODS-Herschel North and South catalogs (Elbaz+, 2011). *VODC* 353, 39119 (2013).
- Elliott, J., S. Schmidl, J. Greiner, D.A. Kann, S. Ciceri and L. Mancini: GRB 130615A: GROND afterglow candidate. *GCN Circ.* 14898, 1 (2013).
- Fabrika, S., E.A. Barsukova, A.F. Valeev, A. Vinokurov, V.P. Goranskij, K. Hornoch, M. Henze, A.W. Shafter and W. Pietsch: Spectra of luminous nova M31N 2013-10h (= Swift J004304.9+411630) in brightening. *The*



Astronomer's Telegram 5554, 1 (2013).

Feruglio, C., F. Fiore, E. Piconcelli, C. Cicone, R. Maiolino, R. Davies and E. Sturm: NGC6240 high resolution mapping of CO(1-0) (Feruglio+, 2013). VODC 355, 89087 (2013).

Galamez, A., A. Grazian, A. Fontana, ..., S. Wuyts: CANDELS multiwavelength catalog (Galamez+, 2013). VODC 220, 60010 (2013).

Georgakakis, A., M. Rowan-Robinson, K. Nandra, J. Digby-North, P.G. Perez-Gonzalez and G. Barro: UV/far-IR data of infrared excess sources (Georgakakis+, 2010). VODC 740, 60420 (2013).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, V. Connaughton, M. Briggs, C. Meegan, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN triangulation of GRB 130310A. GCN Circ. 14284, 1 (2013).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm and D. Palmer: IPN triangulation of GRB 130504B. GCN Circ. 14561, 1 (2013).

Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, J. Goldsten, V. Connaughton, M. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of GRB 130307A. GCN Circ. 14292, 1 (2013).

Golenetskii, S., R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. Goldstein, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno and K. Hurley: IPN triangulation of GRB 131125A (short/hard). GCN Circ. 15546, 1 (2013).

Golenetskii, S., R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno and K. Hurley: IPN triangulation of GRB 131127B. GCN Circ. 15529, 1 (2013).

Gomez Maqueo Chew, Y., F. Faedi, D. Pollacco, ..., V. Burwitz, et al.: Discovery of WASP-65b and WASP-75b (Gomez Maqueo Chew+, 2013). VODC 355, 99036 (2013).

Greiner, J., T. Krühler, M. Nardini, R. Filgas, A. Moin, C. De Breuck, F. Montenegro-Montes, A. Lundgren, S. Klose, P.M.J. Fonso, F. Bertoldi, J. Elliott, D.A. Kann, F. Knust, K. Menten, A. Nicuesa Guelbenzu, E.F. Olivares, A. Rau, A. Rossi, P. Schady, S. Schmidl, G. Siringo, L. Spezzi, V. Sudilovsky, S.J. Tingay, A.C. Updike, Z. Wang, A. Weiss, M. Wieringa and F. Wyrowski: GRB 100621A unusual afterglow (Greiner+, 2013). VODC 356, 9070 (2013).

Heinke, C., D. Haggard, F. Baganoff, G. Ponti, N. Rea,

F. Yusef-Zadeh and D. Roberts: Chandra confirmation of transient X-ray activity from CXOGC J174540.0-290005 north of the Galactic Center. The Astronomer's Telegram 5095, 1 (2013).

Hofmann, F., R. Sturm, J. Greiner, G. Vasilopoulos and P. Maggi: New Swift UVOT transient SWIFT J004255.6+411412 in M 31. The Astronomer's Telegram 5091, 1 (2013).

Hofmann, F., W. Pietsch and J. Greiner: Swift UV light curves of recent M 31 novae. The Astronomer's Telegram 4757, 1 (2013).

Hofmann, F., W. Pietsch and J. Greiner: Swift UVOT light curves of recent M 31 nova candidates. The Astronomer's Telegram 4988, 1 (2013).

Hofmann, F., W. Pietsch, M. Henze, F. Haberl, R. Sturm, M. Della Valle, D.H. Hartmann and D. Hatzidimitriou: M31 central field X-ray source variability study (Hofmann+, 2013). VODC 355, 59065 (2013).

Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, V. Pelassa, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of GRB 130320B (very long/bright). GCN Circ. 14354, 1 (2013).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of GRB 130320A (long/very bright). GCN Circ. 14327, 1 (2013).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, V. Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: IPN triangulation of GRB 130821A. GCN Circ. 15132, 1 (2013).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, D.M. Smith, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, M.E. Del, I. Donnarumma, Y. Evangelista, M. Feroci, I. Lapshov, F. Lazzarotto, M. Marisaldi, V. Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: IPN triangulation of GRB 130502B. GCN Circ. 14546, 1 (2013).

Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, D.M. Smith, J. McTiernan, R. Schwartz, W. Hajdas, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Bart-

- helmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. von Kienlin and A. Rau: IPN triangulation of GRB 130228A. GCN Circ. 14278, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, V. Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: IPN triangulation of GRB 130828A - error box. GCN Circ. 15138, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, D.M. Smith, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, M.E. Del, I. Donnarumma, Y. Evangelista, M. Feroci, I. Lapshov, F. Lazzarotto, M. Marisaldi, V. Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: Refined IPN triangulation of GRB 130502B. GCN Circ. 14591, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 130425A. GCN Circ. 14446, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of GRB 130219A. GCN Circ. 14246, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN triangulation of GRB 130610B (long/multipeaked). GCN Circ. 14868, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN triangulation of GRB 131108A. GCN Circ. 15466, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, V. Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: IPN triangulation of GRB 131014A. GCN Circ. 15363, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa and A. Goldstein: IPN triangulation of GRB 131216A. GCN Circ. 15600, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm and D. Palmer: IPN triangulation of GRB 131011B (Swift trigger 574266). GCN Circ. 15366, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa and A. Goldstein: IPN triangulation of GRB 131209A. GCN Circ. 15588, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami and K. Makishima: IPN triangulation of GRB 131118A. GCN Circ. 15506, 1 (2013).
- Hurley, K., J. Goldsten, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, G. Di Cocco, F. Fuschino, M. Galli, C. Labanti and M. Marisaldi: IPN triangulation of GRB 131028A (long/bright). GCN Circ. 15397, 1 (2013).
- Hurley, K., J. Goldsten, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN localization of GRB 130702A (= Fermi 394416326). GCN Circ. 14974, 1 (2013).
- Hurley, K., S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, D.M. Smith, J. McTiernan, R. Schwartz, W. Hajdas, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, V.

- Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: IPN triangulation of GRB130821A. *GCN Circ.* 15127, 1 (2013).
- Hurley, K., S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, W. Boynton, C. Fellows, K. Harshman, H. Enos, R. Starr, D.M. Smith, J. McTiernan, R. Schwartz, W. Hajdas, A. Zehnder, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, K. Yamaoka, M. Ohno, Y. Hanabata, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, J. Goldsten, V. Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: IPN observations of GRB 130925A. *GCN Circ.* 15278, 1 (2013).
- Hurley, K., V.D. Pal'Shin, R.L. Aptekar, S.V. Golenetskii, D.D. Frederiks, E.P. Mazets, D.S. Svinkin, M.S. Briggs, V. Connaughton, C. Meegan, J. Goldsten, W. Boynton, C. Fellows, K. Harshman, I.G. Mitrofanov, D.V. Golovin, A.S. Kozyrev, M.L. Litvak, A.B. Sanin, A. Rau, A. von Kienlin, X. Zhang, K. Yamaoka, Y. Fukazawa, Y. Hanabata, M. Ohno, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, T. Cline, N. Gehrels, J. Cummings, H.A. Krimm, D.M. Smith, M.E. Del, M. Feroci and M. Marisaldi: IPN supplement to the Fermi GBM (Hurley+, 2013). *VODC* 220, 70039 (2013).
- Ilbert, O., H.J. McCracken, O. Le Fevre, P. Capak, J. Dunlop, A. Karim, M.A. Renzini, K. Caputi, S. Boissier, S. Arnouts, H. Aussel, J. Comparat, Q. Guo, P. Hudelot, J. Kartaltepe, J.P. Kneib, J.K. Krogager, E. Le Floch, S. Lilly, Y. Mellier, B. Milvang-Jensen, T. Moutard, M. Onodera, J. Richard, M. Salvato, D.B. Sanders, N. Scoville, J.D. Silverman, Y. Taniguchi, L. Tasca, R. Thomas, S. Toff, L. Tresse, D. Vergani, M. Wolk and A. Zirm: Multi-color photometry of star-forming galaxies (Ilbert+, 2013). *VODC* 355, 69055 (2013).
- Kann, D.A., R. Filgas, S. Schmidl, S. Klose, M. Tanga and J. Greiner: Swift J1741.5-6548: GROND observation. *The Astronomer's Telegram* 4906, 1 (2013).
- Kann, D.A., T. Kruehler, K. Varela and J. Greiner: GRB 131014A: GROND observations. *GCN Circ.* 15347, 1 (2013).
- Klose, S., A. Nicuesa Guelbenzu, T. Kruehler, J. Greiner, D.A. Kann, A. Rau, E.F. Olivares and S. Schulze: GRB 130831A: VLT/FORS2 spectroscopic detection of a supernova. *GCN Circ.* 15320, 1 (2013).
- Knust, F., A. Nicuesa Guelbenzu and J. Greiner: GRB 130206A: GROND observations. *GCN Circ.* 14191, 1 (2013).
- Knust, F., J. Greiner and V. Sudilovsky: GRB 130211A: GROND detection of the afterglow. *GCN Circ.* 14196, 1 (2013).
- Knust, F., K. Varela and J. Greiner: GRB 130131B: GROND upper limits. *GCN Circ.* 14173, 1 (2013).
- Knust, F., K. Varela, J. Greiner and D.A. Kann: GRB 130215A: GROND detection of the Optical/NIR afterglow. *GCN Circ.* 14221, 1 (2013).
- Kruehler, T., C. Ledoux, J.P.U. Fynbo, P.M. Vreeswijk, S. Schmidl, D. Malesani, L. Christensen, A. De Cia, J. Hjorth, P. Jakobsson, D.A. Kann, L. Kaper, S.D. Vergani, P.M.J. Afonso, S. Covino, A. de Ugarte Postigo, V. D'Elia, R. Filgas, P. Goldoni, J. Greiner, O.E. Hartoog, B. Milvang-Jensen, M. Nardini, S. Piranomonte, A. Rossi, R. Sanchez-Ramirez, P. Schady, S. Schulze, V. Sudilovsky, N.R. Tanvir, G. Tagliaferri, D.J. Watson, K. Wiersema, R.A.M.J. Wijers and D. Xu: GRB 120815A afterglow spectra (Kruehler+, 2013). *VODC* 355, 79018 (2013).
- Lisse, C.M., S.J. Wolk, D.J. Christian, K. Dennerl, D. Bodevits, M.R. Combi, S.T. Lepri, T.H. Zurbuchen, J. Geophys, C. Opitom, E. Jehin, J. Manfroid, M. Gillon, W. Souza, S. Baroni, B.H. Granslo, K. Cernis, M.L. Paradowski, J.J. Chambo, K. Yoshimoto, J.J. Gonzalez and J.E. Bortle: Comet C/2012 S1 (Ison). *IAU Telegram* 3719, 1 (2013).
- Maggi, P., R. Sturm, F. Haberl and G. Vasilopoulos: Confirmation of XMMU J010429.4-723136 as a high-mass X-ray binary. *The Astronomer's Telegram* 5674, 1 (2013).
- Melnyk, O., M. Plionis, A. Elyiv, M. Salvato, L. Chiappetti, N. Clerc, P. Gandhi, M. Pierre, T. Sadibekova, A. Pospieszalska-Surdej and J. Surdej: XMM-LSS field X-ray sources classification (Melnyk+, 2013). *VODC* 355, 79081 (2013).
- Middelberg, E., A.T. Deller, R.P. Norris, S. Fotopoulou, M. Salvato, J.S. Morgan, W. Brisken, D. Lutz and E. Rovilos: Lockman Hole/XMM VLBI observations (Middelberg+, 2013). *VODC* 355, 19097 (2013).
- Nardini, M., M. Tanga, D.A. Kann and J. Greiner: GRB 130418A: GROND detection of the optical-NIR afterglow. *GCN Circ.* 14386, 1 (2013).
- Nicuesa Guelbenzu, A., J. Greiner, K. Varela, S. Klose and D.A. Kann: GRB 130605A: GROND afterglow candidate. *GCN Circ.* 14774, 1 (2013).
- Nicuesa Guelbenzu, A., T. Kruehler, J. Greiner, D.A. Kann, A. Rau, F. Olivares E. and S. Schulze: Supernova 2013fu = GRB 130831A. *IAU Telegram* 3677, 1 (2013).
- Pal'Shin, V., R. Aptekar, D. Frederiks, S. Golenetskii, D. Svinkin, T. Cline, K. Hurley, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, V. Connaughton, M.S. Briggs, C. Meegan and V. Pelassa: IPN triangulation of SGR-like burst 130913 - probable association with SGR/AXP 1E1841-045. *GCN Circ.* 15245, 1 (2013).
- Pal'Shin, V.D., K. Hurley, D.S. Svinkin, ..., A. Rau, A. von Kienlin, et al.: IPN localizations of Konus short GRBs (Pal'shin+, 2013). *VODC* 220, 70038 (2013).
- Pietsch, W. and F. Hofmann: M 31 center on pre-discovery Swift UVOT UVW2 images. *The Astronomer's Telegram* 4833, 1 (2013).
- Ranalli, P., A. Comastri, C. Vignali, F.J. Carrera, N. Cappelluti, R. Gilli, S. Puccetti, W.N. Brandt, H. Brunner, M. Brusa, I. Georgantopoulos, K. Iwasawa and V. Mainieri: The XMM-CDFS catalogues (Ranalli+, 2013). *VODC* 355, 59042 (2013).
- Rau, A., F. Knust, S. Schmidl and J. Greiner: Swift J1753.6-2545: GROND discovery of a candidate counterpart. *The Astronomer's Telegram* 4904, 1 (2013).

- Rau, A., M. Tanga and J. Greiner: MAXI J1828-249: GROND observations of the optical/NIR counterpart. *The Astronomer's Telegram* 5482, 1 (2013).
- Rau, A., T. Kruehler and J. Greiner: iPTF 13dsw/Fermi403206457: x-shooter redshift. *GCN Circ.* 15330, 1 (2013).
- Rau, A.: GRB 130420B: Fermi GBM observation. *GCN Circ.* 14435, 1 (2013).
- Savchenko, V., V. Beckmann, C. Ferrigno, E. Bozzo, M. Beck, J. Borkowski, D. Gotz, S. Mereghetti, A. von Kienlin, A. Rau and K. Hurley: GRB 130907A: INTEGRAL/SPI-ACS light curve. *GCN Circ.* 15204, 1 (2013).
- Savchenko, V., V. Beckmann, C. Ferrigno, E. Bozzo, M. Beck, J. Borkowski, D. Gotz, S. Mereghetti, A. von Kienlin, A. Rau and K. Hurley: Observation of possible GRB/TDE 130925A by INTEGRAL/SPI-ACS: three activity episodes. *GCN Circ.* 15259, 1 (2013).
- Schmidl, S., A. Nicuesa Guelbenzu, S. Klose and J. Greiner: GRB 131004A: GROND observations of the afterglow. *GCN Circ.* 15309, 1 (2013).
- Schmidl, S., A. Rossi and J. Greiner: GRB 130609B: GROND observations. *GCN Circ.* 14866, 1 (2013).
- Schmidl, S., D.A. Kann and J. Greiner: GRB 130513A: GROND observations. *GCN Circ.* 14639, 1 (2013).
- Schmidl, S., D.A. Kann and J. Greiner: GRB 130514A: GROND optical-NIR afterglow discovery and photo-z. *GCN Circ.* 14634, 1 (2013).
- Schmidl, S., D.A. Kann and J. Greiner: GRB 130514B: GROND observations. *GCN Circ.* 14657, 1 (2013).
- Schmidl, S., D.A. Kann and J. Greiner: GRB 130515A: GROND observations. *GCN Circ.* 14655, 1 (2013).
- dl, S., D.A. Kann, S. Klose, S. Stecklum, F. Ludwig and J. Greiner: GRB 130907A: early tautenburg detections, red afterglow. *GCN Circ.* 15194, 1 (2013).
- Schmidl, S., J. Elliott, A. Nicuesa Guelbenzu, S. Klose and J. Greiner: GRB 130315A: GROND afterglow candidate. *GCN Circ.* 14325, 1 (2013).
- Schmidl, S., K. Varela and J. Greiner: GRB131205A: GROND observations. *GCN Circ.* 15585, 1 (2013).
- Schmidl, S., S. Klose, A. Nicuesa Guelbenzu and J. Greiner: GRB 131128A: GROND observations of the afterglow. *GCN Circ.* 15547, 1 (2013).
- Sturm, R., F. Haberl, L.M. Oskinova, M.P.E. Schurch, V. Henault-Brunet, J.S.I. Gallagher and A. Udalski: Spin-period evolution of SXP1062 (Sturm+, 2013). *VODC* 355, 69139 (2013).
- Sturm, R., F. Haberl, M. Freyberg, M. Coe and A. Udalski: Confirmation of the spin period and coordinates of SXP523 with XMM-Newton. *The Astronomer's Telegram* 4719, 1 (2013).
- Sturm, R., F. Haberl, W. Pietsch and J. Greiner: Swift UVOT transient in M 31. *The Astronomer's Telegram* 5528, 1 (2013).
- Sturm, R., F. Haberl, W. Pietsch, J. Ballet, D. Hatzidimitriou, D.A.H. Buckley, M. Coe, M. Ehle, M.D. Filipovic, N. La Palombara and A. Tiengo: XMM-Newton point-source catalogue of the SMC (Sturm+, 2013). *VODC* 355, 89003 (2013).
- Sturm, R., F. Hofmann, W. Pietsch and J. Greiner: Swift UVOT transient in M 31. *The Astronomer's Telegram* 5384, 1 (2013).
- Sturm, R., W. Pietsch and J. Greiner: Swift UVOT transient in M31. *The Astronomer's Telegram* 5669, 1 (2013).
- Sturm, R., W. Pietsch, F. Hofmann and J. Greiner: Swift UVOT discovery of a M 31 nova candidate. *The Astronomer's Telegram* 5256, 1 (2013).
- Sturm, R., W. Pietsch, F. Hofmann and J. Greiner: Swift UVOT light curves of recent M 31 nova candidates. *The Astronomer's Telegram* 5271, 1 (2013).
- Sturm, R., W. Pietsch, F. Hofmann and J. Greiner: XMM-M31J004256.7+411843 in outburst. *The Astronomer's Telegram* 5560, 1 (2013).
- Sudilovsky, V. and J. Greiner: GRB 130211A: retraction of afterglow candidate. *GCN Circ.* 14358, 1 (2013).
- Sudilovsky, V., A. Nicuesa Guelbenzu and J. Greiner: GRB 130408A: GROND detection of the afterglow. *GCN Circ.* 14364, 1 (2013).
- Sudilovsky, V., D.A. Kann and J. Greiner: GRB 130903A: GROND upper limits. *GCN Circ.* 15170, 1 (2013).
- Sudilovsky, V., D.A. Kann and J. Greiner: GRB 130925A: GROND afterglow candidate. *GCN Circ.* 15247, 1 (2013).
- Sudilovsky, V., D.A. Kann, P. Schady, S. Klose, J. Greiner and T. Kruehler: GRB 130925A: VLT/X-shooter redshift. *GCN Circ.* 15250, 1 (2013).
- Sudilovsky, V., K. Varela and J. Greiner: GRB 130727A: GROND observations. *GCN Circ.* 15052, 1 (2013).
- Sudilovsky, V., K. Varela, D.A. Kann and J. Greiner: GRB 131024A: GROND upper limits. *GCN Circ.* 15373, 1 (2013).
- Sudilovsky, V., M. Tanga and J. Greiner: GRB 130831B: GROND upper limits. *GCN Circ.* 15158, 1 (2013).
- Sudilovsky, V., M. Tanga and J. Greiner: GRB 131011A: GROND afterglow observations. *GCN Circ.* 15328, 1 (2013).
- Sudilovsky, V., S. Schmidl and J. Greiner: GRB 131002B: GROND upper limits. *GCN Circ.* 15297, 1 (2013).
- Tanga, M., E.F. Olivares and J. Greiner: GRB 130725B: GROND detection of the Optical/NIR afterglow. *GCN Circ.* 15034, 1 (2013).
- Tanga, M., S. Klose, V. Sudilovsky, R. Filgas and J. Greiner: GRB 130912A: GROND observations. *GCN Circ.* 15214, 1 (2013).
- Tanga, M., S. Schmidl, S. Klose, K. Varela and J. Greiner: GRB 131117A: GROND confirmation of the afterglow and photo-z. *GCN Circ.* 15493, 1 (2013).
- Tanga, M., V. Sudilovsky, D.A. Kann and J. Greiner: GRB 130903A: GROND afterglow discovery. *GCN Circ.* 15177, 1 (2013).
- Varela, K., A.C. Updike, J. Elliott, J. Greiner and D.A.

- Kann: GRB 130623A: GROND detection of the optical/NIR afterglow. GCN Circ. 15080, 1 (2013).
- Varela, K., D.A. Kann and J. Greiner: GRB 130812A: GROND upper limits. GCN Circ. 15091, 1 (2013).
- Varela, K., D.A. Kann and J. Greiner: GRB 131205A: GROND confirmation of afterglow. GCN Circ. 15595, 1 (2013).
- Varela, K., D.A. Kann, S. Klose, J. Elliott and J. Greiner: GRB 130816A: GROND confirmation of afterglow. GCN Circ. 15101, 1 (2013).
- Varela, K., J. Graham, J. Greiner and D.A. Kann: GRB131202A: GROND observations. GCN Circ. 15586, 1 (2013).
- Varela, K., M. Tanga, P. Afonso and J. Greiner: GRB130803A: GROND observations. GCN Circ. 15073, 1 (2013).
- Varela, K., P. Afonso and J. Greiner: GRB130803A: GROND detection of possible host. GCN Circ. 15066, 1 (2013).
- Varela, K., S. Klose, A. Nicuesa Guelbenzu and J. Greiner: GRB 130729A: GROND upper limits. GCN Circ. 14730, 1 (2013).
- Varela, K., S. Klose, J. Greiner and M. Stamatikos: GRB 130816B: GROND afterglow candidate. GCN Circ. 15107, 1 (2013).
- Vasilopoulos, G., P. Maggi, R. Sturm, F. Haberl, W. Pietsch, A. Udalski, M. Sasaki and S. Immler: X-ray outburst of RX J0520.5-6932, confirmed as a Be/X-ray binary. *The Astronomer's Telegram* 4748, 1 (2013).
- Vasilopoulos, G., R. Sturm, F. Haberl, P. Maggi and A. Udalski: Swift J045558.9-702001, a new HMXB in the LMC. *The Astronomer's Telegram* 5540, 1 (2013).
- Vasilopoulos, G., R. Sturm, P. Maggi and F. Haberl: Discovery of the spin period and a new bright outburst of RXJ0520.5-6932. *The Astronomer's Telegram* 5673, 1 (2013).
- von Kienlin, A. and C. Meegan: GRB 131002A: Fermi GBM observation. GCN Circ. 15300, 1 (2013).
- von Kienlin, A. and C. Meegan: GRB 131209A: Fermi GBM observation. GCN Circ. 15591, 1 (2013).
- von Kienlin, A. and G. Younes: GRB 130502B: Fermi GBM detection of a burst. GCN Circ. 14530, 1 (2013).
- von Kienlin, A. and P. Jenke: GRB 131029A: Fermi GBM observation. GCN Circ. 15401, 1 (2013).
- von Kienlin, A. and V. Connaughton: Fermi GBM data availability during U.S. government shutdown. GCN Circ. 15345, 1 (2013).
- von Kienlin, A.: Fermi gamma-ray burst monitor trigger 396447899 / 130725517 is not a GRB. GCN Circ. 15027, 1 (2013).
- von Kienlin, A.: Fermi gamma-ray burst monitor trigger 396533554 / 130726509 is not a GRB. GCN Circ. 15037, 1 (2013).
- von Kienlin, A.: Fermi gamma-ray burst monitor trigger 402405063 / 131002466 is not a GRB. GCN Circ. 15285, 1 (2013).
- von Kienlin, A.: GRB 130425A: Fermi GBM detection. GCN Circ. 14442, 1 (2013).
- von Kienlin, A.: GRB 130427A: Fermi GBM observation. GCN Circ. 14473, 1 (2013).
- von Kienlin, A.: GRB 130504B: Fermi GBM detection. GCN Circ. 14560, 1 (2013).
- von Kienlin, A.: GRB 131028A: Fermi GBM detection. GCN Circ. 15396, 1 (2013).
- von Kienlin, A.: GRB 131127B: Fermi GBM detection. GCN Circ. 15528, 1 (2013).
- Wiersema, K., P.A. Curran, T. Krühler, A. Melandri, E. Rol, R.L.C. Starling, N.R. Tanvir, A.J. van der Horst, S. Covino, J.P.U. Fynbo, P. Goldoni, J. Gorosabel, J. Hjorth, S. Klose, C.G. Mundell, P.T. O'Brien, E. Palazzi, R.A.M.J. Wijers, V. D'Elia, P.A. Evans, R. Filgas, A. Gomboc, J. Greiner, C. Guidorzi, L. Kaper, S. Kobayashi, C. Kouveliotou, A.J. Levan, A. Rossi, A. Rowlinson, I.A. Steele, A. de Ugarte Postigo and S.D. Vergani: GRB 091018 Optical/NIR photometry (Wiersema+, 2012). *VODC* 742, 60002 (2013).
- Wyrzykowski, L., H.C. Campbell, S. Kuposov, K. Ulaczyk, G. Damljanovic, O. Vince, R. Pavlovic, Z. Cvetkovic, M. Stojanovic, U. Kolb, J. Bochinski, V. Burwitz, C. Haswell, J. Rodriguez, J. Harding and R. Busstitt: Multiband photometric follow-up of ASASSN-13aw (SN 2013dr). *The Astronomer's Telegram* 5245, 1 (2013).
- Xiong, S. and A. Rau: GRB 130420A: Fermi GBM observation. GCN Circ. 14429, 1 (2013).
- Yildiz, U.A., K. Acharyya, P.F. Goldsmith, E.F. van Dishoeck, G. Melnick, R. Snell, R. Liseau, J.-H. Chen, L. Paganani, E. Bergin, P. Caselli, E. Herbst, L.E. Kristensen, R. Visser, D.C. Lis and M. Gerin: NGC 1333-IRAS 4A C18O, NO and O2 spectra (Yildiz+, 2013). *VODC* 355, 89058 (2013).

## Poster

- Bandara, K. et al.: KMOS3D Survey: Evolution of Spatially Resolved Kinematics of High- $z$  Galaxies, Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.
- Berta, S. et al.: The molecular gas mass function of star forming galaxies since  $z \sim 3$ , Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.
- Berta, S. et al.: The molecular gas mass function of star forming galaxies since  $z \sim 3$ , The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Brightman, M. et al.: Compton thick active galactic nuclei in Chandra surveys, IAU Symposium 304: Multiwavelength AGN surveys and studies, Yerevan, Armenia, October 2013.
- Contursi, A. et al.: Herschel-PACS spectro-photometer observations of Lyman Break Analogs (LBAs), The Universe Explored by Herschel, ESA/ESTEC, Noordwijk, The Netherlands, October 2013.
- Elliott, J. et al.: The solar-metallicity of the host galaxy of GRB 110918A, Huntsville Gamma Ray Burst Symposium, Nashville, USA, April 2013.
- Fedele, D., S. Bruderer, E.F. van Dishoeck, G. Meeus and N. Evans: Herschel Observations of Gas in Protoplanetary Disks, Protostars and Planets VI, Heidelberg, Germany, July 2013.
- Fossati, M. et al.: Nurture builds-up the Hubble sequence in the Local and Coma Superclusters, The origin of the Hubble Sequence, Astrophysical Institute of Paris, Paris, France, June 2013.
- Fürmetz, M.: Heat Pipe development for the X-ray telescope eROSITA, International Topical Team Workshop Two-phase systems for ground and space applications, Bremen, Germany, September 2013.
- Günther, B. et al.: Electrical Characterization of Different DEPFET Designs on Die Level, 15th International Workshop on Radiation Imaging Detectors, Paris, France, June 2013.
- Karska, A. et al.: Far-IR molecular lines from low- to high-mass star forming regions observed with Herschel, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Lang, P. et al.: Early Evolution of  $z \sim 2$  Galaxies Witnessing the Growth of Bulges and Disks, Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.
- Müller, T. et al.: 2005 YU55: Herschel's fastest, closest and most hazardous target, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Müller, T. et al.: Herschel celestial calibration sources: Four large main-belt asteroids as prime calibrators for the far-IR/submm range, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Müller, T. et al.: Studies of Trans-Neptunian objects with Herschel, European Planetary Science Congress, London, UK, September 2013.
- Menzel, M.-L. et al.: A BOSS Ancillary Survey of X-ray AGN in the XMM-LSS, Black Hole (g)Astronomy Conference, Brindisi, Italy, September 2013.
- Mohr, D.P. et al.: PlasmaLab — Next Generation Plasma Chambers For The ISS, 40th EPS Conference on Plasma Physics, Espoo, Finland, July 2013.
- Murillo, N.M. et al.: Testing Protostellar Formation models: VLA1623A's disk and envelope unravelled with ALMA, Protostars and Planets VI, Heidelberg, Germany, July 2013.
- Prinz, T. et al.: Supernova Remnant Candidates in the ROSAT All-Sky Survey, The Fast and the Furious: Energetic Phenomena in Isolated Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants, Madrid, Spain, May 2013.
- Raab, W. et al.: Status of ARGOS - The Laser Guide Star System for the LBT, Third AO for ELT Conference, Florence, Italy, May 2013.
- Raeth, C. et al.: Dynamic Nonlinearities in Financial Time Series, DPG Frühjahrstagung, Regensburg, Germany, March 2013.
- Schartmann, M. et al.: Hydrodynamical simulations of G2 interpreted as a diffuse gas cloud, IAU Symposium 303 "The Galactic Centre: Feeding and Feedback in a Normal Galactic Nucleus", Santa Fe (NM), USA, October 2013.
- von Kienlin, A. et al.: The Fermi GBM Gamma-Ray Burst and Spectral Catalog: Year Three & Four, Huntsville Gamma Ray Burst Symposium: GRB 2013, Nashville, Tennessee, USA, April 2013.

## Vorträge

- Bandara, K.: KMOS at the VLT: A New Era in IFU Studies of Galaxies, contributed talk, The Emergence of Disk Galaxies, Cape Town, South Africa, November 2013.
- Becker, W.: Deep Space Navigation With Pulsars, colloquium, University of California, San Diego, USA, November 2013.
- Becker, W.: Deep Space Navigation with Pulsars, contributed talk, 4th International Colloquium Scientific and Fundamental Aspects of the Galileo Programme, Prague, Czech Republic, December 2013.
- Becker, W.: Neue Wege der Satellitennavigation: Pulsare als kosmische Wegweiser, public talk, Faszinierendes Weltall: Förderkreis Planetarium Göttingen, Göttingen, Germany, March 2013.
- Becker, W.: Neue Wege der Satellitennavigation: Pulsare als kosmische Wegweiser, public talk, Max-Planck-Institut für Radioastronomie, Bad Münstereifel, Germany, July 2013.
- Becker, W.: Neue Wege der Satellitennavigation: Pulsare als kosmische Wegweiser, public talk, Physik Modern; Ludwig-Maximilians Universität München, Munich, Germany, January 2014.
- Becker, W.: Rotation Powered Pulsars, Supernova Remnants & eROSITA, invited talk, eROSITA Compact Object SWG Meeting, Potsdam, Germany, June 2013.
- Becker, W.: The IMPRS on Astrophysics, public talk, Max-Planck-Gesellschaft, Munich, Germany, July 2013.
- Becker, W.: eROSITA: Status and Scientific Prospects, colloquium, Columbia University, New York, USA, November 2013.
- Becker, W.: eROSITA: Status and Scientific Prospects, colloquium, San Diego State University, San Diego, USA, November 2013.
- Becker, W.: eROSITA: Status and its Scientific Prospects for Neutron Stars and Supernova Remnants, contributed talk, The Fast and the Furious: Energetic Phenomena in Isolated Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants, Madrid, Spain, May 2013.
- Bender, R.: On the role of major versus minor mergers in the formation of massive ellipticals, invited talk, Hot topics in Elliptical Galaxies, Venice, Italy, October 2013.
- Berta, S.: Infrared Surveys, contributed talk, A Panchromatic View of Galaxy Evolution 30 Years after IRAS, Paphos, Cyprus, June 2013.
- Blind, N.: Integrated micro-spectrographs in the era of Extremely Large Telescopes, colloquium, IPAG weekly seminar, Grenoble, France, January 2013.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, 2nd Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics, Havana, Cuba, May 2013.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, 3rd International Symposium on Strong Electromagnetic Fields and Neutron Stars, Varadero, Cuba, May 2013.
- Boller, Th.: 20 years of X-raying Narrow-Line Seyfert 1 galaxies: probing the extreme of Seyfert activity, invited talk, Frascati Workshop 2013, Palermo, Italy, May 2013.
- Boller, Th.: Anfang und Ende des Universums, public talk, Jahreskongress der Deutschen Schlaflforschung und Schlafmedizin, Wiesbaden, Germany, October 2013.
- Boller, Th.: Anfang und Ende des Universums, public talk, Tag der offenen Tür, MPE Garching, Germany, October 2013.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, IBWS Karlovy Vary 2013, Karlovy Vary, Czech Republic, April 2012.
- Boller, Th.: Astronomical tests of GR and the pseudo-complex field theory with X-ray and NIR spectroscopy, invited talk, Symposium on "Nuclear Physics: Presence and Future", Boppard, Germany, June 2013.
- Boller, Th.: Der Stern von Bethlehem aus astronomischer Sicht, public talk, Evangelisch-Lutherische Kirchengemeinde Apostelkirche und Petruskirche München-Solln, Munich, Germany, December 2013.
- Boller, Th.: Experimental tests of GR theories with GRAVITY and Athena+ in the Galactic Centre, contributed talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Schloss Ringberg, Germany, March 2013.
- Boller, Th.: Observational test of the pc-theory using Galactic Binaries, the Galactic Center, and bright AGN, contributed talk, The physics of accretion on compact objects: a multi-messenger approach, Turku, Finland, July 2013.
- Boller, Th.: Ray-tracing simulations as GR tests in the GC and M87, invited talk, The Galactic Center Black Hole Laboratory, Granada, Spain, November 2013.
- Boller, Th.: The public telescope: requirements for universities, invited talk, The public telescope, Haus der Astronomie Heidelberg, Heidelberg, Germany, January 2013.
- Buschkamp, P.: LUCI on sky (with diamonds), public talk, Nerd Nite Munich, Munich, Germany, August 2013.
- Collmar, W.: The MeV sky during the COMPTEL mission, invited talk, Scientific Perspectives in the MeV domain, Paris, France, January 2013.
- Collmar, W.: Das MPE und seine Wissenschaft, public talk, MPE Girls' Day 2013, Garching, Germany, April 2013.
- Collmar, W.: The Microquasar LS 5039 at MeV Energies, invited talk, Variable Galactic Gamma-Ray Sources (II), Barcelona, Spain, April 2013.
- Collmar, W.: The Microquasar LS 5039 at MeV Energies,

- contributed talk, Annual Meeting 2013 of the Astronomische Gesellschaft, Tübingen, Germany, September 2013.
- Collmar, W.: Erde, Sonne, Mond und Sterne: Eine Reise ins Weltall, public talk, Montessori Schule München, Munich, Germany, December 2013.
- Davies, R.: Does Star Formation Play a Decisive Role in Feeding AGN?, colloquium, University of Trieste, Trieste, Italy, February 2013.
- Davies, R.: Imminent Understanding of the Structure of Nearby AGN from IFUs, invited talk, Multiwavelength AGN Surveys and Studies, Yerevan, Armenia, November 2013.
- Davies, R.: MICADO, The E-ELT First Light Imager, invited talk, Shaping E-ELT Science and Instrumentation, Ismaning, Germany, February 2013.
- Davies, R.: New Insights on Post-Starbursts around Local AGN, invited talk, Gas Dynamics and Star Formation in Galactic Nuclei, Tegernsee, Germany, March 2013.
- De Marco, B.: Spectral/timing properties of AGN, invited talk, Spectral timing properties of accreting objects: from X-ray binaries to AGN, Madrid, Spain, May 2013.
- De Marco, B.: Soft X-ray lags in supermassive black holes, invited talk, Prague Synergy 2013: Accreting relativistic compact objects and their environment, Prague, Czech Republic, November 2013.
- De Marco, B.: Spectral/timing properties of AGN, colloquium, Deutsche Elektronen-Synchrotron (DESY), Hamburg, Germany, November 2013.
- De Marco, B.: Time lags in large samples of AGN, invited talk, From the Dolomites to the event horizon: sledging down the black hole potential well, Sexten, Italy, July 2013.
- Dennerl, K.: A 3D beaming model for the quiescent emission of accreting magnetars, contributed talk, Explosive Transients: Lighthouses of the Universe, Santorini, Greece, September 2013.
- Diehl, R.: Kreativität in der Astrophysik-Forschung, invited talk, Institut für Psychoanalyse des Rheinlands: "Workshop Schöpfungsgeschichten", Köln, Germany, March 2013.
- Diehl, R.: Cosmic Gamma-Rays: Measuring Radioactive Isotopes in the Universe, invited talk, 10th Russbach School on Nuclear Astrophysics, Russbach, Austria, March 2013.
- Diehl, R.: Radioactive Nuclei from Massive Stars, contributed talk, EuroGenesis Workshop: "Observational Constraints on Massive Stars and Supernovae", Garching, Germany, March 2013.
- Diehl, R.: Ge Detectors in Space: Ten years of INTEGRAL, invited talk, Ge Detectors in Physical Sciences, Tübingen, Germany, April 2013.
- Diehl, R.: Studying nucleosynthesis ejecta in the Cygnus region, invited talk, Vatican Observatory Workshop: "Cygnus OB2", Albano Laziale, Italy, May 2013.
- Diehl, R.: Cosmic nucleosynthesis observations with INTEGRAL, contributed talk, Nuclear Physics in Astrophysics, Lisboa, Portugal, May 2013.
- Diehl, R.: The Galactic Environment of the Solar System: Nucleosynthesis Aspects, invited talk, College Gordon Conference: "Origins of the Solar System", Mount Holyoke, USA, June 2013.
- Diehl, R.: Studies of the ISM with high-energy emissions, invited talk, Universe Cluster Research Day – Research Area-F, Garching, Germany, July 2013.
- Diehl, R.: Large-Scale Asymmetry in the Galaxy's Hot-gas Blowout, contributed talk, Jahrestagung Deutsche Astronomische Gesellschaft, Tübingen, Germany, September 2013.
- Diehl, R.: "Nucleosynthesis ejecta: Lessons from  $^{44}\text{Ti}$ ,  $^{26}\text{Al}$ , and  $^{60}\text{Fe}$ ", invited talk, INTEGRAL Science Workshop, Rome, Italy, October 2013.
- Diehl, R.: Astrophysics with gamma-rays from cosmic nuclei, colloquium, Astrophysics Colloquium University of Tokyo, Tokyo, Japan, November 2013.
- Diehl, R.: Introduction to Observational Nuclear Astrophysics (Lecture Series), invited talk, University of Tokyo, Tokyo, Japan, November 2013.
- Diehl, R.: INTEGRAL Gamma-Ray Line Astronomy, invited talk, National Astronomical Observatory of Japan: Asian Winter School on Nuclear Astrophysics, Tokyo, Japan, November 2013.
- Diehl, R.: Cosmic radioactivity and INTEGRAL results, invited talk, OMEG Conference, Tsukuba, Japan, November 2013.
- Diehl, R.: Astronomy and Nuclear Astrophysics, contributed talk, German Nuclear Astrophysics Community Meeting, Darmstadt, Germany, December 2013.
- Diehl, R.: Astroparticle Committee and Nuclear Astrophysics, invited talk, Jahrestagung Fachverband Hadronen und Kerne, Bad Honnef, Germany, December 2013.
- Dwelly, T.: SPIDERS (in brief), contributed talk, SDSS-eBOSS targeting workshop, Sauverny Observatory, Geneva, Switzerland, July 2013.
- Eisenhauer, F.: Exploring physics close to the Galactic Center black hole with infrared and submillimeter interferometry, invited talk, DPG-Frühjahrstagung, Jena, Germany, February 2013.
- Eisenhauer, F.: Infrared Interferometry of the Galactic Center Black Hole with GRAVITY, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.
- Eisenhauer, F.: Testing general relativity with submm and infrared interferometry of Sgr A\*, Strong Gravity beyond GR: from theory to observations, invited talk, Instituto Superior Técnico, Lisbon, Portugal, March 2013.
- Eisenhauer, F.: The Galactic Center Black Hole - Approaching the Event Horizon, colloquium, Colloquium of the Physics Department of Instituto Superior Técnico, Lisbon, Portugal, March 2013.
- Eisenhauer, F.: The Galactic Center Black Hole - Approaching the Event Horizon, colloquium, Physikalisches Kolloquium, Universität Bremen, Bremen, Germany, December 2013.



ber 2013.

Elliott, J.: Simultaneous optical/gamma-ray observations of GRB 121217's prompt emission, contributed talk, Huntsville Gamma Ray Burst Symposium, Nashville, USA, April 2013.

Elliott, J.: The solar-metallicity of the host galaxy of GRB 110918A, contributed talk, Galaxies Meet GRBs at Cabo de Gata, Cabo de Gata, Spain, September 2013.

Elliott, J.: Using gamma-ray bursts as tools, colloquium, Royal Observatory of Edinburgh, Edinburgh, United Kingdom, November 2013.

Erwin, P.: Imfit: A New 2D Galaxy Decomposition Code, colloquium, Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain, December 2013.

Erwin, P.: Imfit: A New 2D Galaxy Decomposition Code, contributed talk, Deconstructing Galaxies: Structure and Morphology in the Era of Large Surveys, Santiago, Chile, November 2013.

Erwin, P.: Measuring Bars, invited talk, The Role of Bars in Galaxy Evolution, Granada, Spain, May 2013.

Förster Schreiber, N.M.: AGN-driven outflows in massive  $z \sim 2$  star-forming galaxies and the connection to quenching, invited talk, Hot Topics on Elliptical Galaxies, Venice, Italy, October 2013.

Förster Schreiber, N.M.: Disc growth since  $z \sim 2$  from resolved kinematics, structure, and star formation properties, invited talk, 9th Marseille Cosmology conference – Physical processes of galaxy formation: consensus and challenges, Aix-en-Provence, France, July 2013.

Förster Schreiber, N.M.: KMOS3D, invited talk, Galaxy formation from  $z=5$  to  $z=0$ , Leiden, The Netherlands, May 2013.

Förster Schreiber, N.M.: Kpc-scale kinematics, star formation, and outflows at  $z \sim 2$ , contributed talk, MPA/MPE Workshop on Galaxy Evolution from high to low Redshift, Garching, Germany, March 2013.

Förster Schreiber, N.M.: Nuclear AGN-driven outflows in massive  $z \sim 2$  star-forming galaxies, invited talk, Galactic winds near and far, Kreuth, Ringberg, Germany, June 2013.

Fedele, D.: Gas in protoplanetary disks with Herschel: probing the disk atmosphere, contributed talk, From Stars to Life, Gainesville, Florida, USA, April 2013.

Fedele, D.: Reservoir for planets atmospheres, contributed talk, SAFARI consortium meeting, Wien, Austria, September 2013.

Fedele, D.: The atmosphere of protoplanetary disks, contributed talk, Annual Meeting of the German Astronomical Society, Tübingen, Germany, September 2013.

Fritz, T.K.: Nuclear Cluster of the Milky Way, contributed talk, The Galactic Center: Feeding and Feedback in a Normal Galactic Nucleus, Santa Fe, USA, October 2013.

Fritz, T.K.: The nuclear cluster of the Milky Way, contributed talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.

Genzel, R.: Summary of galaxy formation and evolution, invited talk, Herschel Conference "The Universe Explored by Herschel", ESTEC, Noordwijk, The Netherlands, October 2013.

Genzel, R.: From starbursts to star forming galaxies at the peak of the galaxy formation epoch, invited talk, Winter School in Theoretical Physics "Early Galaxy Formation", Jerusalem, Israel, January 2013.

Genzel, R.: Galaxy kinematics, gas, feedback, and metallicity, invited talk, Winter School in Theoretical Physics "Early Galaxy Formation", Jerusalem, Israel, January 2013.

Genzel, R.: Gas and star formation in the local Universe, invited talk, Winter School in Theoretical Physics "Early Galaxy Formation", Jerusalem, Israel, January 2013.

Genzel, R.: Massereiche Schwarze Löcher und Galaxien, colloquium, University of Cologne, Cologne, Germany, April 2013.

Genzel, R.: Massereiche Schwarze Löcher und die Entwicklung von Galaxien, colloquium, HE Heraeus Physikschule „Physik im Weltraum“, DPG (German Physical Society), Bad Honnef, Germany, September 2013.

Genzel, R.: Massive Schwarze Löcher und Galaxien, colloquium, Max-von-Laue Colloquium, Humboldt University, Berlin, Germany, April 2013.

Genzel, R.: Massive black holes and galaxies, colloquium, University of Frankfurt, Frankfurt, Germany, April 2013.

Genzel, R.: Massive star forming galaxies at the peak of the galaxy formation epoch, invited talk, 75 Years Anniversary Conference "The Origin of the Hubble Sequence", Paris, France, June 2013.

Genzel, R.: Nuclear outflows and morphological quenching in massive  $z \sim 2$  star forming disks, invited talk, Galaxy Formation Workshop, University of California, Santa Cruz, Santa Cruz, USA, August 2013.

Genzel, R.: The Black Hole in the center of the Milky Way, invited talk, Kerr Conference celebrating the 50th anniversary of the Kerr metric, Albert Einstein Institute (AEI), Golm, Germany, July 2013.

Genzel, R.: The Massive Black Hole at the center of the Milky Way, colloquium, Racah Institute, Jerusalem University, Jerusalem, Israel, January 2013.

Genzel, R.: The formation and evolution of massive star forming disks, colloquium, Joint Astronomy Colloquium, University of Heidelberg, Heidelberg, Germany, December 2013.

Genzel, R.: The galactic centre environment, invited talk, Workshop „Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei“, Kreuth, Ringberg Castle, Kreuth, Germany, March 2013.

Genzel, R.: The gas cloud G2 falling towards Sgr A\*: status of observations and theory, colloquium, Lunch Meeting, University of California, Berkeley, USA, February 2013.

Genzel, R.: The significance of the star formation sequence, colloquium, Galform Seminar, University of California, Berkeley, Berkeley, USA, January 2013.

- Gerhard, O.E.: Dark Matter and Dynamics in Elliptical Galaxy Halos, invited talk, The PNS: Future Projects and Ideas, Lorentz Center, Leiden, The Netherlands, February 2013.
- Gerhard, O.E.: The Origin of the Galactic Bulge, invited talk, Galaxy Evolution from High to Low Redshift, Garching, Germany, March 2013.
- Gerhard, O.E.: Bulge Formation Models, invited talk, 'Resolved Stellar Populations in the Galactic Bulge and the Magellanic Clouds, in occasion of CTIO's 50th birthday, La Serena, Chile, May 2013.
- Gerhard, O.E.: Dynamics and Origin of the Galactic Bulge, invited talk, The Role of Bars in Galaxy Evolution, Granada, Spain, May 2013.
- Gerhard, O.E.: Stellar Populations and Dynamical Probes of the Outer Halos of Early-Type Galaxies, invited talk, The Physical Link between Galaxies and their Halos, Garching, Germany, June 2013.
- Gerhard, O.E., Inner Milky Way Dynamics at MPE, invited talk, Excellence Cluster Research Area F Science Day, Garching, Germany, July 2013.
- Gerhard, O.E.: The Structure of Bulges in Spiral Galaxies, invited talk, Structure and Dynamics of Disk Galaxies, Petit Jean Mountain, Arkansas, USA, August 2013.
- Gerhard, O.E.: Dynamics of the Milky Way, invited lecture series, "GAIA-ITN School", Puerto de la Cruz, Tenerife, Spain, September 2013.
- Gerhard, O.E.: The GAIA Space Mission and the Origin of the Milky Way, invited lecture, "Physics in Space" Heraeus School, Bad Honnef, Germany, September 2013.
- Gerhard, O.E.: Dynamics of the Galactic Bulge and Nuclear Star Cluster, colloquium, ICRAR, Perth, Australia, October 2013.
- Gerhard, O.E.: The Galactic Bulge and Nuclear Star Cluster, colloquium, MSSO, Australian National University, Canberra, Australia, November 2013.
- Gerhard, O.E.: Dynamical Modelling and M2M: The Milky Way's Box/Peanut Bulge, invited talk, 7th Korean Astrophysics Workshop on "Dynamics of Disk Galaxies", Seoul, Korea, October 2013.
- Gerhard, O.E.: Stellar and Dark Matter Halos of Early-Type Galaxies, invited talk, Excellence Cluster Science Day, Garching, Germany, December 2013.
- Gillessen, S.: Der Klang des Urknalls, public talk, Freimaurerloge Ingolstadt Theodor zur festen Burg, Ingolstadt, Germany, March 2013.
- Gillessen, S.: Astrologie und Astronomie - Was ist Wissenschaft, public talk, EAA-Kolloquium, Munich, Germany, November 2013.
- Gillessen, S.: Black Holes – Science Fiction or Reality?, public talk, IoA, Cambridge, UK, October 2013.
- Gillessen, S.: Fatal Fate - A gas cloud on its way to the Galactic Center Black Hole, colloquium, IoA, Sackler Lecture, Cambridge, UK, October 2013.
- Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße, public talk, 10. Lange Nacht der Sterne, Dessau, Germany, September 2013.
- Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße, public talk, Deutsches Museum / Exzellenzcluster Universe, Munich, Germany, October 2013.
- Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße, public talk, LMU, Munich, Germany, May 2013.
- Gillessen, S.: Himmlische Lichtspuren - Sternentanz um ein Schwarzes Loch, public talk, Forum Baucultur, Munich, Germany, April 2013.
- Gillessen, S.: Observations of the gas cloud G2 in the Galactic Center, invited talk, IAU Symposium 303: The Galactic Center: Feeding and Feedback in a Normal Galactic Nucleus, Santa Fe, USA, October 2013.
- Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, Astro-GR, Atlanta, US, November 2013.
- Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, Black Hole (G)astronomy, Brindisi, Italy, September 2013.
- Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, High Energy Tidal Disruption Events: Looking at the Future, Favignana, Italy, September 2013.
- Gillessen, S.: Pericenter passage of the gas cloud G2 in the Galactic Center, invited talk, MPA High Energy Seminar, Garching, Germany, July 2013.
- Gillessen, S.: Schwarze Löcher – Science Fiction oder Realität, public talk, Planetarium Mannheim, Mannheim, Germany, December 2013.
- Gillessen, S.: Stellar dynamics in the Galactic Center, contributed talk, MODEST-13, Almaty, Kasachstan, August 2013.
- Gillessen, S.: The "Galactic Center" - a unique laboratory, colloquium, Uni Bonn, Bonn, Germany, December 2013.
- Gillessen, S.: Watching a gas cloud disrupt on its way to Sgr A\*, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg, Germany, March 2013.
- Gillessen, S.: Watching in real-time how a gas cloud gets disrupted by Sgr A\*, colloquium, Sterrewacht Leiden, Leiden, The Netherlands, April 2013.
- Gillessen, S.: Watching in real-time how a gas cloud gets disrupted by Sgr A\*, colloquium, Universidad Catolica, Santiago, Chile, April 2013.
- Graciá Carpio, J.: Probing the ISM Properties of Galaxies through their FIR Fine-Structure Lines: The SHINING View, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Graciá Carpio, J.: The multi-phase wind of M82 as probed by Herschel-PACS, invited talk, Galactic Winds Near and Far, Kreuth, Ringberg castle, June 2013.
- Graciá Carpio, J.: [CII] from nearby galaxies, invited talk, C+ as an Astronomical Tool, Leiden, The Netherlands, February 2013.

- Greiner, J.: GRBs: understanding their physics and using them as probes, colloquium, SifA Sydney, Sydney Australia, February 2013.
- Greiner, J.: Science and Mission Concepts to study the Early Universe with GRBs, invited talk, Future Directions in the Study of Relativistic Jets. Skokloster, Sweden, August 2013.
- Greiner, J.: GRB-SN connection: rate and missed opportunities, contributed talk, Supernovae and Gamma-Ray Bursts in Kyoto 2013, Kyoto, Japan, October 2013.
- Haberl, F.: Supernova Remnants in the XMM-Newton Survey of the Small Magellanic Cloud, contributed talk, Astronomische Gesellschaft, Annual Meeting, Session Supernova Remnants, Tübingen, Germany, September 2013.
- Haberl, F.: The Magnificent Seven: Nearby, Thermally Emitting, Isolated Neutron Stars, invited talk, The Fast and the Furious: Energetic Phenomena in Isolated Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants, Madrid, Spain, May 2013.
- Haerendel, G.: Processes Governing the Entry of Plasma from Tail into Magnetosphere during Substorms, invited talk, Earth-Sun System Exploration 5 Conference, Kona (Hawaii), USA, January 2013.
- Haerendel, G.: Processes Governing the Entry of Plasma from Tail into Magnetosphere during Substorms, invited talk, AGU Chapman Conference on Fundamental Properties and Processes of Magnetotails, Reykjavik, Iceland, March 2013.
- Haerendel, G.: Open Questions Concerning the Onset of Magnetospheric Substorms, colloquium, Space Physics Seminar, UCLA, Los Angeles, USA, May 2013.
- Haerendel, G.: Open Questions Concerning the Onset of Magnetospheric Substorms, colloquium, UCB-SSL Berkeley (Ca), Berkeley, USA, May 2013.
- Haerendel, G.: M-I Coupling Scales and Energy Conversion Processes, invited talk, MPE-JUB Symposium on Auroral Physics and Plasma Boundary Analysis, MPE, Garching, Germany, July 2013.
- Haerendel, G.: Open Questions Concerning the Onset of Magnetospheric Substorms, invited talk, MPE-JUB Symposium on Auroral Physics and Plasma Boundary Analysis, MPE, Garching, Germany, July 2013.
- Haerendel, G.: Bariumwolkenexperimente – Der leuchtende Start des MPE, public talk, MPE 50 Years Anniversary Colloquium, MPE, Garching, Germany, July 2013.
- Haerendel, G.: Das Polarlicht: Ein irdisches Kind des Sonnengottes, public talk, Planetarium Hamburg, Hamburg, Germany, September 2013.
- Haerendel, G.: Auroral acceleration and magnetic fractures: How they are being sustained, invited talk, Royal Astronomical Society, London, UK October 2013.
- Ivlev, A.V.: Complex plasmas: Similarity and complementarity to colloidal dispersions, invited talk, Russian Academy of Sciences, Moscow, Russia, October 2013.
- Ivlev, A.V.: Non-conservative processes in complex (dusty) plasmas, invited talk, 40th European Physical Society Conference on Plasma Physics, Helsinki, Finland, July 2013.
- Kanbach, G.: Fast photometry with small telescopes, invited talk, Workshop "Observing techniques, instrumentation and science for metre-class telescopes", Slovak Academy of Science, Tatranska Lomnica, Slovakia, September 2013.
- Kanbach, G.: Gamma-Astronomie und Kosmische Strahlung: Fenster in das hochenergetische Universum, public talk, Festkolloquium 50 Jahre MPE, Garching, Germany, July 2013.
- Kanbach, G.: History and Status of MeV gamma ray astrophysics: guidelines for discussion and evaluation of future projects, invited talk, Workshop "Instrumental concepts in the MeV domain", PNHE (Programme national hautes energies), Paris, France, December 2013.
- Kanbach, G.: Recent Results from the OPTIMA photopolarimeter, invited talk, Royal Astronomical Society Specialist Discussion Meeting, London, United Kingdom, April 2013.
- Karska, A.: PACS results from the William Herschel line Legacy program (WILL), contributed talk, Water in star-forming regions with Herschel (WISH) team meeting, Leiden, The Netherlands, October 2013.
- Khrapak, S.A.: Complex (dusty) plasmas: Particle charging and interparticle interactions, colloquium, PIIM, Aix-Marseille University, Marseille, France, December 2013.
- Khrapak, S.A.: Dust particle charging in gas discharges, colloquium, Joint Institute for High Temperatures, Moscow, Russia, May 2013.
- Khrapak, S.A.: Particle charging in complex (dusty) plasmas, invited talk, IV International Conference "Dusty Plasmas in Applications", Odessa, Ukraine, August 2013.
- Khrapak, S.A.: Simple model for particle charging in drifting collisional plasmas, contributed talk, DPG Spring Meeting, Jena, Germany, March 2013.
- Khrapak, S.A.: Studies of fluid-solid phase transitions in complex plasmas with PK3 Plus, contributed talk, International Symposium "Plasma crystals in space: A Russian-German" program, Moscow, Russia, October 2013.
- Klecker, B.: Key techniques for in-situ measurements onboard the MIT spacecraft, invited talk, Magnetosphere, Ionosphere and Thermosphere Forum, ISSI-BJ, Beijing, China, October 2013.
- Klecker, B.: Ionic charge states of energetic particles: a clue to their source and acceleration, colloquium, National Space Science Center, Beijing, China, November 2013.
- Knappek, C.A.: Experimental study of crystallization processes in 2D complex plasmas, invited talk, 40th European Physical Society Conference on Plasma Physics, Espoo, Finland, July 2013.
- Krause, M.: Jet-environment interactions in the Milky Way and other spiral galaxies, invited talk, Ringberg workshop: "Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei", Kreuth, Ringberg Castle, Germany, March 2013.

- Krause, M.: Massive star groups in the Milky Way and ISM feedback: X- and gamma-rays, invited talk, INTEGRAL workshop: "INTEGRAL's journey through the high energy sky", Rome, Italy, October 2013.
- Krause, M.: 10 years of INTEGRAL observations of the  $^{26}\text{Al}$  decay line: Where do massive star ejecta go, which route do they take, and how long does it take them to get there?, contributed talk, EUROGENESIS collaboration meeting, Darmstadt, Germany, December 2013.
- Krause, M.: Superbubbles as a physical process in the ISM, contributed talk, conference: "Physical processes in the interstellar medium", Garching, Germany, October 2013.
- Krause, M.: Simulations of superbubble feedback, contributed talk, splinter session "Energizing the interstellar medium" at the annual meeting of the "Astronomische Gesellschaft", Tübingen, Germany, September 2013.
- Krause, M.: The basic morphologies resulting from the jet-environment interaction, contributed talk, splinter session "Astrophysical jets" at the annual meeting of the "Astronomische Gesellschaft", Tübingen, Germany, September 2013.
- Krause, M.: Interstellar medium dynamics and the formation of distinct stellar generations in globular clusters, contributed talk, EUROGENESIS meeting "Observational constraints on sources of nucleosynthesis", Garching, Germany, March 2013.
- Krause, M.: New insights from simulations of the jet-environment interaction, contributed talk, Symposium "Astronomy, Radio Sources & Society", Leiden, The Netherlands, June 2013.
- Kurk, J.: Spiders and webs, contributed talk, Astronomy, Radio Sources and Society - The Wonderful Century, Leiden, The Netherlands, June 2013.
- Lutz, D.: AGN and the Herschel picture of steady galaxy evolution and starbursts, contributed talk, Seeking the Leading Actor on the Cosmic Stage: Galaxies vs. Black Holes, Castellammare del Golfo, Italy, June 2013.
- Lutz, D.: Co-evolution of AGN and their hosts, contributed talk, FIRSED 2013, Amsterdam, The Netherlands, April 2013.
- Lutz, D.: Far-infrared galaxy evolution surveys with Herschel, invited talk, SPICA's new window on the cool universe, Tokyo, Japan, June 2013.
- Lutz, D.: From (U)LIRGs to main sequence: The PEP view of the evolution of infrared galaxies, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Lutz, D.: Herschel deep surveys, invited talk, Far-infrared emission as a window to study the formation of Galaxies, black holes and dust in the young universe, Kreuth, Ringberg Castle, Germany, May 2013.
- Müller, T.: Asteroid models: Towards asteroids as prime flux standards, contributed talk, Herschel Calibration Workshop: Only the best data products for the Legacy Archive, ESA/ESAC, Madrid, Spain, March 2013.
- Müller, T.: Combining occultation observations with thermal measurements: a powerful technique to characterise Centaurs and TNOs, contributed talk, European Planetary Science Congress, London, UK, September 2013.
- Müller, T.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, MPE, Garching, Germany, October 2013.
- Müller, T.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, Sternwarte Neumarkt, Neumarkt, Germany, November 2013.
- Müller, T.: Herschel's view on the cool TNOs, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.
- Müller, T.: Infrared observations of small solar system bodies, colloquium, Seoul National University, Seoul, South Korea, May 2013.
- Müller, T.: TNOs are Cool! Highlights from the Herschel Key Programme, contributed talk, Waves and Particles: Multi-Messengers from the Universe, Tübingen, Germany, September 2013.
- Müller, T.: Thermophysical modelling of small bodies on basis of disk-integrated thermal measurements, invited talk, ISSI Thermal Emission Meeting, Bern, Switzerland, March 2013.
- Meidinger, N.: Focal plane detectors, contributed talk, XTP-GRAVITAS workshop, Beijing, China, June 2013.
- Meidinger, N.: Progress of the "X-ray CCD camera development" for the eROSITA telescope, contributed talk, SPIE Optics and Photonics, San Diego, USA, August 2013.
- Meidinger, N.: eROSITA detectors, contributed talk, eROSITA consortium meeting, Garching, Germany, October 2013.
- Menzel, M.-L.: A BOSS Ancillary of X-ray AGN in the XMM-LSS, contributed talk, BOSS-SDSS Meeting, Lawrence Berkeley National Laboratory, Berkeley, California, USA, December 2013.
- Merloni, A.: Science with eROSITA all-sky surveys: an outlook, colloquium, INAF-Bologna, Bologna, Italy, April 2013.
- Merloni, A.: BOSS AGN observations in the LSS field: a SPIDERS pilot, invited talk, Annual XXL Meeting, Bonn, Germany, June 2013.
- Merloni, A.: Cosmological evolution of AGN: some new results from multi-wavelength surveys, invited talk, Accreting Relativistic Compact Objects and their Environment, Prague, Czech Republic, November 2013.
- Merloni, A.: Cosmological evolution of SMBH: clue about AGN feedback from multi-wavelength surveys, invited talk, Massive Black Holes: Birth, Growth and Impact, Santa Barbara, USA, August 2013.
- Merloni, A.: Cosmological evolution of Supermassive Black holes, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.
- Merloni, A.: Science with the SRG/eROSITA all-sky survey: an outlook, colloquium, Caltech, Pasadena, USA,

August 2013.

Merloni, A.: Unification of Accretion: from black hole binaries to AGN, invited talk, Spectral/timing properties of accreting objects: from X-ray binaries to AGN, Madrid, Spain, April 2013.

Nandra, K.: Athena+: The Case for a future X-ray Observatory in 2028, invited talk, European Large X-ray Observatory Discussion Meeting, Leicester, UK, February 2013.

Nandra, K.: SPIDERS: Spectroscopic Identification of eROSITA sources, invited talk, SDSS-III Collaboration Meeting, Baltimore, USA, June 2013.

Nandra, K.: GRAVITAS Science Overview, invited talk, XTP-GRAVITAS Workshop, ISSI, Beijing, China, June 2013.

Nandra, K.: eROSITA: the generation all sky X-ray survey, invited talk, LSST@Europe: the Path to Science, Cambridge, UK, September 2013.

Nandra, K.: Athena+: Revealing the Hot and Energetic Universe, invited talk, 13th Meeting of the High Energy Astrophysics Division, HEAD Meeting, Monterey, USA, April 2013.

Nandra, K.: The Hot and Energetic Universe, invited talk, ESA Presentation meeting for the L2 and L3 Science Themes, Paris, France, September 2013.

Nandra, K.: Athena+: Exploring the Hot and Energetic Universe, colloquium, Astrium UK, Stevenage, UK, September 2013.

Nandra, K.: Athena+: Exploring the Hot and Energetic Universe, colloquium, Institute for Astronomy, Edinburgh, UK, November 2013.

Nandra, K.: eROSITA, invited talk, BOSS/eBOSS collaboration meeting, Berkeley, USA, December 2013.

Poglitsch, A.: Die Geschichte der Sternentstehung im Universum, public talk, Karl Rahner Akademie, Cologne, Germany, May 2013.

Poglitsch, A.: Die Geschichte der Sternentstehung im Universum, colloquium, DLR, Cologne, Germany, May 2013.

Poglitsch, A.: Extragalactic high-J CO Line Observations with Herschel/PACS, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.

Ponti, G.: EPIC spectral variations of NGC 5548 over a month, contributed talk, The multi-wavelength campaign on NGC5548, Bern (ISSI), Switzerland, December 2013.

Ponti, G.: Excess Variance in AGN, contributed talk, From the Dolomites to the event horizon: sledging down the black hole potential well, Sesto, Italy, July 2013.

Ponti, G.: The past (and future?) X-ray activity of the Galactic Centre, contributed talk, New XMM-Newton scan of the Central Molecular Zone, Bern (ISSI), Switzerland, May 2013.

Ponti, G.: Traces of past activity in the Galactic Centre, contributed talk, The Galactic Center: Feeding and feedback: IAU Symposium, Santa Fe, New Mexico, USA, October 2013.

Ponti, G.: The past X-ray history of the galactic center,

invited talk, The restless nature of AGNs, Naples, Italy, May 2013.

Predehl, P.: Der Bau von eROSITA, public talk, Volksternwarte München, Munich, Germany, November 2013.

Predehl, P.: Implementation options for XTP/GRAVITAS science, invited talk, XTP/Gravitas Workshop, IHEP, Beijing, China, June 2013.

Predehl, P.: eROSITA – Eine neue Himmelsdurchmusterung im Röntgenbereich, contributed talk, 28. Optik-Kolloquium ITO Stuttgart, Stuttgart, Germany, February 2013.

Predehl, P.: eRosita, mapping the X-ray Universe, invited talk, Jahrestagung der Astronomischen Gesellschaft, Tübingen, Germany, September 2013.

Prinz, T.: Supernova remnant candidates in the ROSAT All-Sky Survey, contributed talk, Annual Meeting of the Astronomische Gesellschaft 2013, Tübingen, Germany, September 2013.

Raeth, C.: Low-l Phase Correlations in the PLANCK Data, contributed talk, 47th ESLAB Symposium: The Universe as seen by PLANCK, Noordwijk, The Netherlands, April 2013.

Raeth, C.: Low-l phase correlations in the full-mission PLANCK data: Some first results, colloquium, PLANCK isotropy and statistics team meeting, Cambridge, UK, July 2013.

Raeth, C.: PLANCK anomalies, invited talk, Science Day of the Excellence Cluster Universe, Garching, Germany, June 2013.

Raeth, C.: The only nearly perfect Universe as seen by PLANCK, invited talk, Seminar Talk, University of Bielefeld, Bielefeld, Germany, July 2013.

Rau, A.: Compact objects: catalogs & follow-up, invited talk, eROSITA Catalog Working Group Meeting, Munich, Germany, July 2013.

Rau, A.: Fermi, GROND, and GRBs, invited talk, Realtime Astroparticle Physics, Bonn, Germany, February 2013.

Rau, A.: Optical/NIR time domain surveys for identification and characterization of compact objects in the eROSITA survey, invited talk, eROSITA Compact Object Working Group Meeting, Potsdam, Germany, June 2013.

Rau, A.: SRGs contribution to the LIGO/VIRGO GW-Trigger Follow-up, contributed talk, Discussion Meeting about agreements for LIGO-Virgo Event Follow-up Program, Amsterdam, The Netherlands, August 2013.

Rau, A.: eRASS compact objects and LIGO-Virgo events, contributed talk, German eROSITA Consortium Meeting 2013, Garching, Germany, October 2013.

Rosario, D.J.: Star Formation and AGN: A modern perspective, colloquium, ETH Zurich, Zurich, Switzerland, November 2013.

Rosario, D.J.: A modern perspective on star formation in AGN, contributed talk, MPA Heidelberg, Heidelberg, Germany, November 2013.

Rosario, D.J.: Conference Summary: Co-evolution, invited talk, The Triggering Mechanisms for Active Galactic Nuclei, Leiden, The Netherlands, July 2013.

Rosario, D.J.: Near and Far: The SF-AGN connection across Cosmic Time, invited talk, Searching the leading actor on the cosmic stage: Galaxies vs Black holes, Castellammare del Golfo, Italy, June 2013.

Rosario, D.J.: Star Formation and AGN: A modern perspective, invited talk, Tel Aviv University, Tel Aviv, Israel, December 2013.

Rosario, D.J.: The Star-Forming Properties of Active Galaxies to  $z=2.5$ : A Multi-Faceted View, contributed talk, The Universe Explored by Herschel, Noordwijk, The Netherlands, October 2013.

Saintonge, A.: Molecular gas as a probe of galaxy evolution, invited talk, 6th Southern Cross Conference: Feeding, Feedback and Fireworks, Hamilton Island, Australia, June 2013.

Salvato, M.: Mapping the active Universe with eROSITA, invited talk, IAU S304: Multiwavelength AGN Surveys and Studies, Yerevan, Armenia, October 2013.

Sanchez, A.G.: Cosmological implications of the BOSS-CMASS clustering wedges, contributed talk, Ripples in the Cosmos, Durham, UK, July 2013.

Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, INAF - Osservatorio Astronomico di Brera, Merate, Italy, April 2013.

Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, Swinburne University, Melbourne, Australia, November 2013.

Sanchez, A.G.: Cosmological implications of the clustering of galaxies in BOSS, colloquium, The University of Melbourne, Melbourne, Australia, November 2013.

Sanchez, A.G.: Cosmological implications of the large scale galaxy clustering in BOSS, invited talk, Theoretical Challenges in Large Scale Structure, Ascona, Switzerland, July 2013.

Sanchez, A.G.: Observational Cosmology, colloquium, Astronomic Observatory of Cordoba, Cordoba, Argentina, March 2013.

Schartmann, M.: Possible Flare Emission in the Galactic Center due to the G2 Encounter, invited talk, Localising Astrophysical Transients, Leiden, Holland, May 2013.

Schartmann, M.: Simulations of possible formation scenarios and the fate of G2, invited talk, ESF workshop "Tidal Disruption Events: Looking at the Future", Favignana, Italy, September 2013.

M. Scholer: The role of microinstabilities in the dynamics of supercritical quasi-perpendicular collisionless shocks, invited talk, 8th European Workshop on Collisionless Shocks, Paris, France, June 2013.

Schruba, A.: Interstellar Medium and Star Formation in Nearby Galaxies, invited talk, Institut de Planétologie et d'Astrophysique de Grenoble, Grenoble, France, December 2013.

Schruba, A.: The Resolved ISM in our Nearest Spiral Galaxy, contributed talk, Physical Processes in the ISM, Garching, Germany, October 2013.

Schwabe, M.: Simulating the Dynamics of Complex/Dus-

ty Plasmas, invited talk, 19th IEEE Pulsed Power Conference and 40th IEEE International Conference on Plasma Science, San Francisco, USA, June 2013.

Sturm, E.: Extragalactic observations of FIR CO lines and their interpretation, contributed talk, SPICA-SAFARI Science Meeting, Utrecht, The Netherlands, March 2013.

Sturm, E.: Galaxy Evolution as seen by PACS, contributed talk, The Universe Explored by Herschel (ESLAB2013), Noordwijk, The Netherlands, October 2013.

Sturm, E.: Massive molecular outflows from ULIRGs, contributed talk, Galactic Winds Near and Far, Kreuth, Ringberg Castle, Germany, June 2013.

Sturm, E.: Star Formation and the ISM in Infrared Bright Galaxies - SHINING, colloquium, Colloquium of the University Observatory Munich (USM), Munich, Germany, January 2013.

Sturm, E.: The Mid- and Far-Infrared View on Galaxy Evolution, invited talk, From Exoplanets to Distant Galaxies: SPICA's New Window on the Cool Universe, Tokyo, Japan, June 2013.

Sturm, E.: The dynamics and energetics of molecular outflows in ULIRGs, invited talk, Galaxies versus Black Holes, Castellammare del Golfo, Italy, June 2013.

Tacconi, L.J.: Gas Consumption in Extreme Environments: High Redshift, invited talk, Regulation of Star Formation in Molecular Gas: from Galactic to Sub-cloud Scales, Kreuth, Ringberg Castle, Germany, June 2013.

Tacconi, L.J.: PHIBSS: Molecular Gas and Scaling Relations in  $z=1-2$  Star Forming Galaxies, colloquium, INAF Osservatorio Astronomico di Roma, Rome, Italy, May 2013.

Tacconi, L.J.: PHIBSS: Molecular Gas and Scaling Relations in  $z=1-2$  Star Forming Galaxies, invited talk, 2013 Santa Cruz Galaxy Evolution Workshop, Santa Cruz, USA, August 2013.

Tacconi, L.J.: PHIBSS: Molecular Gas and Scaling Relations in  $z=1-2$  Star Forming Galaxies, invited talk, GALFORM Series, Berkeley, USA, February 2013.

Tacconi, L.J.: The ISM at High Redshift – Observations, invited talk, ISM-SPP: Physical Processes in the ISM, Garching, Germany, October 2013.

Thoma, M.H.: Physik in der Schwerelosigkeit, public talk, Justus-Liebig-Universität Giessen, Giessen, Germany, January 2013.

Thoma, M.H.: The PK-4 Project: Complex Plasma Microgravity Experiments in a DC Discharge - Results from the Latest Parabolic Flight Campaign, contributed talk, DPG-Frühjahrstagung, Jena, Germany, February 2013.

Thomas, J.: A Milky-Way like IMF in high-dispersion ellipticals?, invited talk, Hot Topics on Elliptical Galaxies, Venice, Italy, October 2013.

Thomas, J.: Black-hole masses & cores of high-sigma early-type galaxies and Observations on SMBH-galaxy correlations, invited talk, Gas Dynamics and Star Formation in the Extreme Environment of Galactic Nuclei, Kreuth, Ringberg Castle, Germany, March 2013.

- Thomas, J.: The central M/L of high-dispersion galaxies, contributed talk, The Physical Link between Galaxies and their Halos, Garching, Germany, June 2013.
- Thomas, J.: The mass structure of luminous early-type galaxies from stellar dynamics, invited talk, Dissecting Galaxies with 2D Wide-field Spectroscopy, Lijiang, China, March 2013.
- Trümper, J.: ROSAT, public talk, Raumfahrt-Stammtisch Munich, Munich, Germany, April 2013.
- Trümper, J.: Looking back at 50 Years of X-Ray Astronomy, invited talk, IBWS 2013, Karlovy Vary, Czech Republic, April 2013
- Trümper, J.: The Physics of Magnetars, invited talk, IBWS 2013, Karlovy Vary, Czech Republic, April 2013.
- Trümper, J.: Constraining the Equation of State of Matter using Neutron Star Observations, colloquium, Physics Colloquium University of Regensburg, Regensburg, Germany, May 2013.
- Trümper, J.: Constraining the Equation of State of Matter using Neutron Star Observations, colloquium, Astrophysics Colloquium University Tübingen, Tübingen, Germany, June 2013.
- Trümper, J.: Sonne, Mond und Sterne, public talk, Montessori-Schule Hausham-Miesbach, Miesbach, Germany, July 2013.
- van Dishoeck, E.F.: Astrochemistry: the promise of Herschel delivered!, invited talk, The Universe explored by Herschel, Noordwijk, The Netherlands, October 2013.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Halley lecture, Oxford University, Oxford, UK, May 2013.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, colloquium, Sackler lecture, Tel Aviv University, Tel Aviv, Israel, May 2013.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars, public talk, Dutch Royal Academy of Sciences, Amsterdam, The Netherlands, March 2013.
- van Dishoeck, E.F.: Chemistry in star-forming regions and protoplanetary disks, invited talk, lectures at Nordic summerschool on Molecules in Space, Onsala, Sweden, June 2013.
- van Dishoeck, E.F.: Complex molecules in high-mass YSOs with disk-like structures, contributed talk, Astrochemistry in the ALMA era, Copenhagen, Denmark, January 2013.
- van Dishoeck, E.F.: From dust and molecules to planets: the ALMA revolution, invited talk, Keynote lecture, 2013 Rocks! Transformational science with ALMA, Kona, USA, April 2013.
- van Dishoeck, E.F.: Galactic science with ALMA, public talk, ALMA inauguration, San Pedro de Atacama, Chile, March 2013.
- van Dishoeck, E.F.: Interstellar molecules: from cores to disks, invited talk, Observing the Universe from molecules to galaxies, Austin, USA, April 2013.
- van Dishoeck, E.F.: Planetesimal formation in action: ALMA IRS48 images, invited talk, Ice and planet formation, Lund, Sweden, May 2013.
- van Dishoeck, E.F.: Sweet results from ALMA, invited talk, Jahrestagung der Astronomischen Gesellschaft, Tübingen, Germany, September 2013.
- van Dishoeck, E.F.: Sweet results from ALMA, invited talk, Leiden Observatory, Leiden, The Netherlands, September 2013.
- van Dishoeck, E.F.: The submm universe as seen by the superconducting devices in Herschel and ALMA, invited talk, From nano to cosmo, Delft, The Netherlands, November 2013.
- van Dishoeck, E.F.: Transitional disks: planet formation in action, colloquium, Oxford University, Oxford, UK, May 2013.
- van Dishoeck, E.F.: Transitional disks: planet formation in action, colloquium, Tel Aviv University, Tel Aviv, Israel, May 2013.
- van Dishoeck, E.F.: Waar komt het water op aarde vandaan?, public talk, Diligentia lezing, Den Haag, The Netherlands, March 2013.
- van Dishoeck, E.F.: Water chemistry: from collapsing cores to disks, invited talk, From stars to life, Gainesville, USA, April 2013.
- van Dishoeck, E.F.: Water en de bouwstenen voor leven tussen de sterren, public talk, Paradiso lezing, Amsterdam, The Netherlands, January 2013.
- van Dishoeck, E.F.: Water in space: from interstellar clouds to planet-forming disks, colloquium, Joint Munich Colloquium, Munich, Germany, June 2013.
- van Dishoeck, E.F.: Water in space: from interstellar clouds to planets, colloquium, Open University, Milton Keynes, UK, October 2013.
- van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA, colloquium, Joint Cavendish-IOA colloquium, Cambridge, UK, October 2013.
- Vilenius, E.: "TNOs Are Cool": a Survey of the Transneptunian Region. Results from the Combined Herschel PACS and SPIRE Observations of Nine Bright Targets, contributed talk, Asia Oceania Geosciences Society 10th Annual Meeting, Brisbane, Australia, June 2013.
- Vilenius, E.: "TNOs are Cool": A survey of trans-Neptunian objects with Herschel Space Observatory, colloquium, Konkoly Observatory, Research Centre for Astronomy and Earth Sciences, Budapest, Hungary, December 2013.
- Vilenius, E.: Analysis of classical Kuiper belt objects using data from Herschel open time key program "TNOs are Cool", contributed talk, Waves and Particles: Multi-Messengers from the Universe. Annual Meeting of the Astronomische Gesellschaft, Tübingen, Germany, September 2013.
- Vilenius, E.: Herschel observations of outer solar system, contributed talk, Star and Planet Formation Seminar at European Southern Observatory, Garching, Germany, October 2013.

Vilenius, E.: TNOs are Cool: Physical characterization of classical Kuiper belt objects from Herschel Space Observatory and Spitzer Space Telescope data, contributed talk, Asia Oceania Geosciences Society 10th Annual Meeting, Brisbane, Australia, June 2013.

Wisnioski, E.: From 13 to 600+: the Future of High-z IFU Surveys, invited talk, Astronomical Society of Australia Annual Science Meeting, Melbourne, Australia, July 2013.

Wisnioski, E.: Star Formation on kpc-scales  $z = 0.1 - 1.5$ , invited talk, Australian Astronomical Observatory, Sydney, Australia, February 2013.

Wisnioski, E.: Star Formation on kpc-scales  $z = 0.1 - 1.5$ , invited talk, Australian National University, Canberra, Australia, February 2013.

Wisnioski, E.: Star Formation on kpc-scales  $z = 0.1 - 1.5$ , invited talk, Instituto de Astrofísica de Canarias, Tenerife, Spain, January 2013.

Wisnioski, E.: The Evolution of Resolved Kinematics and Star-Formation From  $z = 0.7 - 2.5$ , contributed talk, Physical Processes of Galaxy Formation, Aix-en-Provence, France, July 2013.

Wuyts, E.: A Magnified View of the Kinematics and Morphology of Star Formation at  $z=1.7$ , contributed talk, Physical Processes of Galaxy Formation: Consensus and

Challenges, Aix-en-Provence, France, July 2013.

Wuyts, E.: Zooming in on a merger at  $z=1.7$ , contributed talk, Dissecting Galaxies with 2D Wide-field Spectroscopy, Lijiang, China, March 2013.

Wuyts, S.: Dissecting the kinematics and structure of star-forming galaxies at cosmic noon, invited talk, Dissecting galaxies with 2D wide-field spectroscopy, Lijiang, China, March 2013.

Wuyts, S.: On the road to quenching, invited talk, Ellipticals in Venice, Venice, Italy, October 2013.

Wuyts, S.: Resolved stellar populations of galaxies at cosmic noon, contributed talk, The origin of the Hubble sequence, Paris, France, June 2013.

Wuyts, S.: Resolved stellar populations of star-forming galaxies at cosmic noon, contributed talk, Physical processes of galaxy formation: consensus and challenges, Aix en Provence, France, July 2013.

Wuyts, S.: Resolved stellar populations, bulge growth and quenching since cosmic noon, colloquium, Columbia University, New York, USA, December 2013.

Wuyts, S.: Resolved stellar populations, bulge growth and quenching since cosmic noon, colloquium, McGill University, Montreal, Canada, December 2013.

## Bücher / Beiträge in Büchern

Boller, Th. and A. Müller: Astronomical Tests of General Relativity and the Pseudo-Complex Theory. In Book "Exciting Interdisciplinary Physics". (Ed.) W. Greiner. FIAS Interdisciplinary Science Series, Springer International Publishing Switzerland, 293-312 (2013).

Johnson, J.L.: Formation of the first galaxies: theory and simulations. In Book "The First galaxies:- Theoretical Predictions and Observational Clues. (Eds.) T. Wiklind, B. Mobasher, V. Bromm. Astrophysics and Space Science Library 396, 177-222 (2013).

Merloni, A. and S. Heinz: Evolution of Active Galactic Nuclei. In Book "Planets, Stars and Stellar Systems, Vol. 6: Extragalactic Astronomy and Cosmology". (Eds.) T.D. Oswalt, W.C. Keel. Springer Science-Business Media, Dordrecht, The Netherlands, 503-566 (2013).

Morfill, G., Y. Baturin, V. Fortov (Eds.): Plasma Research at the Limit - From the International Space Station to Applications on Earth. World Scientific Publishing, Singapore, 312 pp, (2013).

Saglia, R. (Ed.): Hot Planets and Cool Stars. EPJ Web of Conferences Vol. 47, published online (2013).

## Artikel in der Öffentlichkeitsarbeit

Alexander, F.: Aluminium-26 als Botschafter aktueller Element-Entstehung. Sterne und Weltraum Juni 2013, S. 28 (2013).

Burtscher, L and K.R.W. Tristram: The Diversity of Dusty AGN Tori: Results from the VLTI/MIDI AGN Large Programme. ESO Messenger 154, 62-65 (2013).

Gillessen, S. and F. Eisenhauer: Im Sog des Schwarzen Lochs. Sterne und Weltraum 8/2013, 28-35 (2013).

Lutz, D. and E. Sturm: Die dunkle Seite der Galaxienentwicklung. Physik in unserer Zeit 44, 174-179 (2013).

Sharples, R., R. Bender, A. Agudo Berbel, N. Bezawada, R. Castillo, M. Cirasuolo, G. Davidson, R. Davies, M. Dubbeldam, A. Fairley, G. Finger, N. Förster Schreiber,

F. Gontte, A. Hess, I. Jung, I. Lewis, J.-L. Lizon, B. Mutschelok, L. Pasquini, J. Pirard, D. Popovic, S. Ramsay, P. Rees, J. Richter, M. Riquelme, M. Rodrigues, I. Saviane, J. Schlichter, L. Schmidtbreick, A. Segovia, A. Smette, T. Szeifert, A. van Kesteren, M. Wegner and E. Wiezorrek: First Light for the KMOS Multi-Object Integral-Field Spectrometer. The Messenger 151, 21-23 (2013).

Wegg, C. and O. Gerhard: The Milky Way's Box/Peanut Bulge: Measuring its Three-dimensional Structure Using the VVV Survey. ESO Messenger 154, 54-56 (2013).

Winter, A.: Sterngeburt kurz nach dem Urknall. Sterne und Weltraum, 52(5), 46-53 (2013).



## Dissertationen

Elliott, J.: Using gamma-ray bursts as tools. Technische Universität München 2013.

Fritz, T.: From the Sun to the Galactic Center: Dust, Stars and Black Hole(s). Ludwigs-Maximilians-Universität München 2013.

Fotopoulou, S.: Active galactic nuclei luminosity function and the Lockman hole deep field. Technische Universität München 2013.

Heidemann, R.: Dynamical phenomena in complex plasmas. Ludwig-Maximilians-Universität, München.

Olivares E., F.: Probing the Connection between Supernovae and Gamma-Ray Bursts. Technische Universität München 2013.

Prinz, T.: Exploring the End States of Massive Stars using the X-ray Emission of Neutron Stars and Supernova Remnants. Ludwigs-Maximilians-Universität München 2013.

Rossmannith, G.: Non-linear data analysis on the sphere - the quest for anomalies in the cosmic microwave background. Ludwig-Maximilians-Universität München 2013.

Weißmann, A.: Statistical analysis of the X-ray morphology of galaxy clusters. Ludwigs-Maximilians-Universität München 2013.

Zendejas Dominguez, J.: Searching for transits in the WTS with the difference imaging light curves. Ludwigs-Maximilians-Universität München 2013.

## Diplomarbeiten

Knust, F.: Mass estimates of black holes in X-ray binaries. Technische Universität München 2013.

Siegert, T.: High-precision cosmic gamma-ray line spectroscopy: Spectral response and background modeling. Technische Universität München 2013.

## Masterarbeiten

Finozzi, F.: Programming and testing a 3D-Schwarzschild code for the dynamical modeling of galaxies. Ludwigs-Maximilians-Universität München 2013.

Haug, M.: Liquid Nitrogen Cooled Cryostat to Provide Mechanical Stability on a Nanometre Level for the Astronomical Instrument GRAVITY. Hochschule für angewandte Wissenschaften, München 2013.

Penka, D.: Radiometric Study for the E-ELT instrument MICADO. Hochschule für angewandte Wissenschaften, München 2013.

Wurdack, A.: Pan-Planets: Stellar variability in the globular cluster M71. Ludwigs-Maximilians-Universität München 2013.

## Bachelorarbeiten

Bolmer, J.: Photometrische Entfernungsbestimmung von Blazaren. Technische Universität München 2013.

Madarasz, E.: Dunkle Materie in spheroidalen Zwerggalaxien der Milchstrasse. Technische Universität München 2013.

Peterson, A.: Radius-Änderung eines Weißen Zwerges während eines Nova-Ausbruches. Technische Universität München 2013.

Schiegg, F.: Messung der Massen stellarer Schwarzer Löcher in Röntgen-Doppelsternsystemen. Technische Universität München 2013.

Schlecker, M.: Alignment and Calibration of the X-ray telescope  $\mu$ ROSI. Technische Universität München 2013.

Schweyer, T.: Towards a new SMC extinction curve. Technische Universität München 2013.

# Kollaborationen / Wissenstransfer

## Wissenschaftliche Kollaborationen nach Ländern



### Australien

Australian National University, Canberra: Galaxienentstehung.

Monash University, Melbourne: 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; SPICA-SAFARI.

### Brasilien

Universidade de Sao Paulo: Galaxienentstehung.

Observatorio Nacional, Rio: DES.

Centro Brasileiro de Pesquisas, Rio: DES.

Universidade Federal do Rio: DES.

### Chile

Universidad de Concepcion: Röntgen-Doppelsternsysteme.

Universidad Catolica Santiago: Röntgen-Doppelsternsysteme.

### China

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

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

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

### Deutschland

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

Christian-Albrechts-Universität, Kiel: komplexe Plasmen.

Dept. Earth and Environmental Sciences of the Ludwig-Maximilians-Universität, Munich: Raman Spectroscopy.

Department of Neuropathology, Technical University Munich: Raman Spectroscopy, Plasma Medicine.

DLR-Köln Porz: Plasmakristall Experiment; PK-3 Plus; Rosetta Lander (Philae); Plasma-Dekontamination.

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

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

Institut für Astrophysik Göttingen: MICADO.

Institute of Experimental Oncology, Technical University 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: Nahinfrarot-spektrograph LUCI für LBT; Galaxienentstehung, ARGOS.

Laser Zentrum Hannover: Development of advanced Filters for MICADO, coatings for Gravity, dichroics for ARGOS.

Leibniz Supercomputing Centre of the Bavarian Academy of Sciences and Humanities, Garching b. München: Label free imaging and Pattern Recognition.

Ludwig-Maximilians-Universität, München: KMOS; MICADO; HETDEX; Plasmamedizin.

Maier-Leibnitz Laboratorium, Garching: eROSITA.

Max-Planck-Institut für Astronomie, Heidelberg: GRAVITY; LUCI; 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 für den Röntgenbereich; CAST; eROSITA.

Max-Planck-Institut für Kernphysik, Heidelberg: CFEL.

Max-Planck-Institut für Biomedizinische Forschung, Münster: CFEL.

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

Max-Planck-Institut für Biophysische Chemie, Göttingen: CFEL.

Max-Planck-Institut für Radioastronomie, Bonn: ARGOS. Physikalisch-Technische Bundesanstalt Berlin: eROSITA, SPICA-SAFARI, TES Bolometer SQUID-Ausleseschaltung.

Städtisches Klinikum München GmbH, Mikrobiologie Zentrallager Schwabing: Plasma Medicine.

Stiftung Tierärztliche Hochschule, Institut für Lebensmittelqualität und -sicherheit, Hannover: Plasma Medicine.

Thüringer Landessternwarte Tautenburg: GROND; Gamma-Ray Bursts.

Technische Universität Berlin: Interstellares Medium.

Technische Universität Darmstadt: CAST.

Technische Universität München: Nukleare Astrophysik; Toxologische Abteilung II Med Klinik: Plasma Medicine.

Trans MIT, Gießen: Pulse tube cooler for GRAVITY.

Universität Bochum: Komplexe Plasmen; LUCI.

Universität Bonn: Test von Pixeldetektoren für ATHENA; eROSITA; EUCLID.

Universität Düsseldorf: komplexe Plasmen, ERC Advanced Grant.

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.

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

Universität Mannheim: Athena; XFEL.

Universität Regensburg, Institut für Pathologie, Innere Medizin: Plasma Medicine.

University Hospital Regensburg, Department of Dermatology: Plasma Medicine.

Universität Siegen: Compton Kamera.

Universität Würzburg: AGADE.

### 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 Experimente auf der ISS.

IAP Paris: Nukleare Astrophysik.

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

IPAG Grenoble: GRAVITY.

OAMP Marseille: Herschel-PACS.

Observatoire de Paris-Meudon: GRAVITY; MICADO.

### Griechenland

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

### Großbritannien

Queen's University, Belfast: PanSTARRS.

BRUNEL University, London: Athena.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen.

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

Open University, Milton Keynes: Kataklysmische Variablen; Novae.

Rutherford Appleton Laboratory, Council for the Central Laboratory of the Research Councils, Swindon: 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 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, Brighton: DES.

University of Southampton: Magellanic Clouds.

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: Fermi/GBM.

#### **Israel**

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

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 Trieste: Gamma-Ray Bursts; Fermi/LAT.

INAF Padua: Herschel-PACS; LBT; MICADO.

INAF Roma: LBT; Nukleare Astrophysik.

INFR Frascati: SIDDHARTA.

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

OAA/LENS Firenze: Herschel-PACS.

Politecnico di Milano: rauscharme Elektronik; Röntgendetektorenentwicklung.

University Bologna: EUCLID.

Universität Neapel: Komplexe Plasmen.

#### **Japan**

ISAS: SPICA-SAFARI.

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

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

Tohoku University: Komplexe Plasmen.

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

University of Osaka: Astro H; Athena CCDs.

University of Tokyo: GeBiB detectors.

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; IN-

TEGRAL; EUCLID; PK-4.

FOM Institute for Plasma Physics, Rijnhuizen: komplexe Plasmen.

NOVA Leiden: MICADO.

SRON Groningen: SPICA-SAFARI.

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

TU Delft: Reflexions Messungen an schwarzen Farben.

University Eindhoven: Komplexe Plasmen; Plasmalab.

University of Groningen, Kapteyn Institute: Rekonstruktion der Dichteverteilung im Universum.

#### **Norwegen**

Universität Tromsø: Komplexe Plasmen.

#### **Österreich**

Universität und TU Wien: Herschel-PACS.

Universitäten Wien, Innsbruck, Linz: MICADO.

#### **Polen**

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

University Zielona Gora: OPTIMA.

#### **Portugal**

SIM Lissabon und Porto: GRAVITY.

Universität Lissabon: Komplexe Plasmen.

#### **Russland**

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

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/Spektrum Röntgen-Gamma.

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.

ETH Zürich: ERIS

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

Universität Basel: Nukleare Astrophysik.

### **Spanien**

Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas, Madrid: DES.

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

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

Instituto de Ciencias del Espacio, Bellaterra: DES.

Institut de Fisica d'Altes Energies, Barcelona: 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, Budapest: 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.

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

MIT, Cambridge: Athena/WFI.

NOAO, Tucson: DES.

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

Naval Research Laboratory, Washington: 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; PanSTARRS; Röntgendoppelsterne in M31.

Space Telescope Science Institute, Baltimore: Galaxienentstehung; PanSTARRS.

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

SLAC, Stanford: CAMP; DES.

Texas A & M University, College Station: DES.

Texas State University, San Marcos: HETDEX.

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

University of California, Berkeley: MPG/UCB-Kollaboration; FAST; INTEGRAL-Spektrometer SPI; Department of chemical engineering: Plasma Medicine, Komplexe Plasmen.

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 Pennsylvania: DES.

University of Pittsburgh: Galaxienentstehung.

University of Texas, Austin: Galaxienentstehung; HETDEX.

University of Toledo: Galaxienentstehung.

## Multinationale Kollaborationen - Projekte

ARGOS - Laserleitstern für das LBT: Arcetri Observatory, Italy; AIP, 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.

Athena - Advanced Telescope for High Energy Astrophysics: 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), JAXA, Japan; ESA; NASA, MIT, CfA, Penn State University, USA.

BOSS: SDSS-III Collaboration.

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

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

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

COSMOS - Cosmological 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, Università Padova, Dipartimento di Fisica, Università degli Studi Roma Tre, Italy; Harvard-Smithsonian Centre for Astrophysics, Cambridge, Dept. of Physics, Carnegie Mellon University, Pittsburgh, Institute for Astronomy, University of Hawaii, California Institute of Technology, Pasadena, Dept. of Astronomy, Yale University, USA; INTEGRAL Science Data Centre, Versoix, Switzerland; Laboratoire d'Astrophysique de Marseille, France.

DES - 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 de Pesquisas Físicas, Universidade Federal do

Rio, Brasilien; Instituto de Ciencias del Espacio, Institut de Física d'Altes Energies, Centro de Investigaciones Energéticas Medioambientales y Tecnológicas, Spain.

ERIS - Enhanced Resolution Imager and Spectrograph for the VLT: ESO, ETH Zürich.

eROSITA - extended Roentgen Survey with an Imaging Telescope Array: Universität Tübingen, Universität Bonn, Universität Erlangen, AIP Potsdam, Universität Hamburg, Reimeis-Sternwarte Bamberg, MPA Garching, LMU München, 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; STC I, USA; MPIA Heidelberg, Universität Bonn, Germany.

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

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

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: MPIA Heidelberg, Universität Köln, ESO, Garching, Germany; SIM Lissabon und Porto, Portugal; IPAG, Grenoble, Observatoire de Paris / Meudon (LESIA), France.

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; Konkoly Observatory, Hungary.

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 Scientists: France, Germany, Norway, Russia.

ISDC - INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University Southampton, UK; Institut für Astronomie und Astrophysik Tübingen,

Germany; Danish Space Research Institute Lyngby, Denmark; University College Dublin, Ireland; Istituto di Fisica Milano, Istituto di Astrofisica Spaziale Frascati, Italy; N. Copernicus 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 - VLT multi-IFU near-infrared spectrograph: Universitätssternwarte München, Germany; University of Durham, ATC Edinburgh, University of Oxford, UK.

LBT - Large Binocular Telescope Project: MPIA Heidelberg, MPIfR Bonn, Landessternwarte Heidelberg Königstuhl, AIP, Germany; University of Arizona, Tucson, Ohio State University, Columbus, Research Corporation, USA; INAF, 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.

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

MICADO - Multi-Adaptive Optics Imaging Camera for Deep Observations: LMU, USM, MPIA, IFA Göttingen, Germany; INAF Padova, Italy; Austrian Universities astronomy cooperation (Wien, Innsbruck, Linz); NOVA, Federation of Dutch University Astronomy Depts, The Netherlands; LESIA, Paris, France.

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

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

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

PK-3 Plus (Plasma-crystal experiment): JIHT Moscow, Russia; University of Iowa City, USA; DLR-Köln, University of Kiel, Germany; Université d'Orléans CNRS, France; Okayama University, JAXA-ISAS, Kyoto Institute of Technology, Japan; Auburn University, USA.

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.

Plasmamedizin: Max Planck Innovation GmbH, Dept. of Dermatology, Hospital Schwabing, München, Medizet Dept. Microbiology, Schwabing, München, Dept. of Dermatology, University Hospital Regensburg, Dept. of Neu-

ropathology, TU München, Institute of Experimental Oncology, TU München, University of Veterinary Medicine, Hannover, German Aerospace Center (DLR), Cologne, German Aerospace Center (DLR), Bonn, Dept. of Toxicology, TU München, Hospital for ENT, LMU München, University Regensburg, Dept. of Internal Medicine, Institute of Pathology, 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.

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

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, Laboratorio de Astrofisica Espacial y Fisica Fundamental, Madrid, Spain; Main Astronomical Observatory, Kiev, Ukraine.

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

SPICA-SAFARI: University of Tokyo, ISAS/JAXA, Sagami-hara, 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, Saclay, CEA Saclay, LAM, Marseille, France; University of Vienna, Austria; MPIA, Heidelberg, Physikalisch Technische Bundesanstalt, Berlin, Germany; CAB-INTA, Madrid, Spain; IFSI-INAf, Rome, Italy; KU Leuven, CSL Liège 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/SSC (Survey Science Center): AIP, Germany; SAP Saclay, CDS Strasbourg, CESR Toulouse, France; University of Leicester, Institute of Astronomy Cambridge, MSSL London, UK.

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

## Industrielle Kollaborationen

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

4D Engineering, Gilching, Germany: Software development for GRAVITY.

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

af inventions, Braunschweig: FPGA Programmierung for eROSITA.

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

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

Array Electronics, Eggenstein: DAQ development OPTIMA.

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

Bonerz engineering, Weiler-Simmerberg: printed circuit board development, electronics development.

Buchberger GmbH, Tuchenbach: Manufacturing of parts for PANTER manipulators.

Cryovac, Troisdorf: Crystat for SPICA-SAFARI detector assembly tests.

EADS Astrium, Munich: EUCLID design study, eROSITA.

ESL GmbH, Berlin: Manufacturing of circuit boards.

Freyer GmbH, Tübingen: PANTER, parts for LUCI, eROSITA.

Guido Lex Werkzeugbau GmbH, Miesbach: parts for LUCI.

Hans Englert GmbH, Berlin: Manufacturing of front panels and metering devices.

IABG, Ottobrunn: MLI for eROSITA.

HPS München: Environmental testing eROSITA.

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

Ingenieurbüro Josef Eder, Hilgertshausen: System Engineering for eROSITA.

Ingenieurbüro pfma, Haar-Salmdorf: SAFARI.

Ingenieurbüro Weisz, München: Design and mechanical engineering for LUCI and ERIS.

Invent GmbH, Braunschweig: CFRP-Telescopestructure for eROSITA.

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

Kayser-Threde GmbH, München: Plasma-crystal experiments on the ISS; PKE; PK-3 Plus; PK-4; EUCLID design study.

Kugler GmbH, Salem: GRAVITY.

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

Luxelcorp, USA: Filter for eROSITA.

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

MBM Maschinenbau, Mühldorf: eROSITA Container.

MENLO Systems, Martinsried, Germany: Metrology Laser for GRAVITY.

MOOG Inc., East Aurora, USA: high pressure valves for eROSITA.

Oxford Instruments, UK: Sub-Kelvin cooler for SPICA-SAFARI test facility.

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

RUAG Austria: Telescope-Cover-Mechanism for eROSITA.

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

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

TransMIT, Giessen, Germany: pulse tube cooler for GRAVITY.

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

WINLIGHT OPTICS, Pertuis, France: Beam analyzer optics for GRAVITY.

ZÜND Precision Optics, Diepoldsau, Switzerland: roof prisms for GRAVITY.



## Aktivitäten im Wissenstransfer

Durch unsere vielen Kooperationen mit anderen Forschungseinrichtungen und der Industrie ergibt sich ein natürlicher Wissenstransfer. Dies gilt auch bei der Vergabe von Aufträgen an die Industrie. Im Gegensatz dazu sind im Folgenden industriefinanzierte Forschungsk Kooperationen bzw. Beratungstätigkeiten sowie erteilte Patente und vergebene Lizenzen aufgeführt.

### A) Industriefinanzierte Forschungsk Kooperationen

Optical design and development for MICADO.

Dr. Johannes Heidenhain-Stiftung, Traunreut: Technologische Entwicklung auf dem Gebiet der Röntgenoptik und Röntgenspektroskopie; Entwicklung schneller Detektoren für Infrarot- und Röntgenstrahlung.

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

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

PNSensor, München, Aufbau und Test eines Röntgen-Gamma-Strahlen-Detektors.

### B) Lizenzen

ADTEC, Japan, Plasma Torch.

Biocam GmbH, Regensburg: Dermatoscopy.

Baader Planetarium GmbH, Mammendorf: Reflexionsgitter Spectrograph für Lehrzwecke.

PNSensor, München, Detektortechnologie.

Baader Planetarium GmbH, Mammendorf: Baches Echelle Spectrograph.

### C) Kooperationen mit Universitäten (vertraglich)

Anästhesiologie:

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

Scanning Probe Microscopy and Ramam Spectroscopy: Department of Neuropathology, Technical University Munich.

Institut für Kristallographie und Angewandte Mineralogie, LMU München.

Radiology:

Institut für Röntgendiagnostik, TU München.

Bayerisches Landeskriminalamt, StZ, München.

Plasmamedizin:

Department of Chemical Engineering, University of California, Berkeley.

Department of Neuropathology, TU Munich.

Department of Infectiology & Virology, University Heidelberg.

Department of Toxology, TU Munich.

Hospital for ENT, LMU München.

Institute of Experimental Oncology, TU Munich.

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

Klinik und Poliklinik für Dermatologie, Universität Regensburg.

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

Institute for Epidemiology and Microbiology of the Russian Academy of Medical Sciences, Moscow.

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

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

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

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

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

Städtisches Klinikum München GmbH, Mikrobiologie Zentrallager Schwabing: Plasma Medicine.

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

Detektorentwicklung:

Universität Mannheim, ASIC Entwicklung.

Politecnico di Milano, Analog-Elektronik Entwicklung.

### D) Patente - Aktivitäten in 2013

Das MPE hielt Ende 2013 insgesamt 11 Patente.