

## Referierte Publikationen

- ALMA Partnership, E.B. Fomalont, C. Vlahakis, S. Corder, ..., F. Alves, ..., J. Pineda, et al.: The 2014 ALMA Long Baseline Campaign: An Overview. *Ap. J. Lett.* 808, L1-L11 (2015).
- Aalto, S., S. Martín, F. Costagliola, E. González-Alfonso, S. Muller, K. Sakamoto, G.A. Fuller, S. García-Burillo, P. van der Werf, R. Neri, M. Spaans, F. Combes, S. Viti, S. Mühle, L. Armus, A. Evans, E. Sturm, J. Cernicharo, C. Henkel and T.R. Greve: Probing highly obscured, self-absorbed galaxy nuclei with vibrationally excited HCN. *Astron. Astrophys.* 584, A42 (2015).
- Acero, F., M. Ackermann, M. Ajello, ..., A.W. Strong, et al.: Fermi Large Area Telescope Third Source Catalog. *Ap. J. Supp. Ser.* 218, 23 (2015).
- Ackermann, M., M. Ajello, A. Albert, ..., A.W. Strong, et al.: The Spectrum of Isotropic Diffuse Gamma-Ray Emission between 100 MeV and 820 GeV. *Ap. J.* 799, 86 (2015).
- Ackermann, M., M. Ajello, A. Albert, ..., A.W. Strong, et al.: Limits on dark matter annihilation signals from the Fermi LAT 4-year measurement of the isotropic gamma-ray background. *Journal of Cosmology and Astroparticle Physics* 008 (2015).
- Agarwal, B., S. Khochfar, S.: Revised rate coefficients for H<sub>2</sub> and H<sup>-</sup> destruction by realistic stellar spectra. *Mon. Not. R. Astron. Soc.* 446(1), 160-168 (2015).
- Agnello, A., T. Treu, F. Ostrovski, ... D. Gruen, ..., et al.: Discovery of two gravitationally lensed quasars in the Dark Energy Survey. *Mon. Not. R. Astron. Soc.* 454(2), 1260-1265 (2015).
- Aird, J., A.L. Coil, A. Georgakakis, K. Nandra, G. Barro and P.G. Pérez-González: The evolution of the X-ray luminosity functions of unabsorbed and absorbed AGNs out to  $z \sim 5$ . *Mon. Not. R. Astron. Soc.* 451, 1892-1927 (2015).
- Ajello, M., D. Gasparrini, M. Sánchez-Conde, G. Zaharijas, M. Gustafsson, J. Cohen-Tanugi, C.D. Dermer, Y. Inoue, D. Hartmann, M. Ackermann, K. Bechtol, A. Franckowiak, A. Reimer, R.W. Romani and A.W. Strong: The Origin of the Extragalactic Gamma-Ray Background and Implications for Dark Matter Annihilation. *Ap. J. Lett.* 800, L27 (2015).
- Akiyama, K., R.-S. Lu, V.L. Fish, S.S. Doeleman, A.E. Broderick, J. Dexter, et al.: 230 GHz VLBI Observations of M87: Event-horizon-scale Structure during an Enhanced Very-high-energy  $\gamma$ -Ray State in 2012. *Mon. Not. R. Astron. Soc.* 807, 150-160 (2015).
- Alam, S., F.D. Albareti, C. Allende Prieto, ..., N. Clerc, ..., T. Dwelly, ..., A. Georgakakis, ..., J.N. Grieb, ..., M.L. Menzel, ..., A. Merloni, ..., K. Nandra, ..., S. Salazar-Albornoz, ..., M. Salvato, ..., A.G. Sánchez, et al.: The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III. *Ap. J. Supp. Ser.* 219, 12 (2015).
- Alam, S., F.D. Albareti, C. Allende Prieto, ..., M. Salvato, et al.: The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III. *Ap. J. Suppl.* 219, 12A (2015).
- Allen, R.C., J.-C. Zhang, L.M. Kistler, H.E. Spence, R.-L. Lin, B. Klecker, M.W. Dunlop, M. André and V.K. Jordanova: A statistical study of EMIC waves observed by Cluster: 1. Wave properties. *J. Geophys. Res. (Space Phys.)* 120, 5574-5592 (2015).
- Anastassopoulos, V., M. Arik, S. Aune, ..., H. Bräuninger, ..., P. Friedrich, et al.: Search for chameleons with CAST. *Physics Letters B*, 749, 172-180 (2015).
- ANTARES Collaboration, S. Adrián-Martínez, A. Albert, M. André, ..., C. Großberger, et al.: ANTARES constrains a blazar origin of two IceCube PeV neutrino events. *Astron. Astrophys.* 576, L8 (2015).
- Anthonioz, F., F. Ménard, C. Pinte, J.-B. Le Bouquin, M. Benisty, W.-F. Thi, O. Absil, G. Duchêne, J.-C. Augereau, J.-P. Berger, S. Casassus, G. Duvert, B. Lazareff, F. Malbet, R. Millan-Gabet, M. R. Schreiber, W. Traub, G. Zins: The VLT/PIONIER near-infrared interferometric survey of southern T Tauri stars. I. First results. *Astron. Astrophys.*, 574A, 41A (2015).
- Antonellini, S., I. Kamp, P. Riviere-Marichalar, R. Meijerink, P. Woitke, W.-F. Thi, M. Spaans, G. Aresu and G. Lee: Understanding the water emission in the mid- and far-IR from protoplanetary disks around T Tauri stars. *Astron. Astrophys.* 582, A105 (2015).
- Arasa, C., J. Koning, G.-J. Kroes, C. Walsh and E.F. van Dishoeck: Photodesorption of H<sub>2</sub>O, HDO, and D<sub>2</sub>O ice and its impact on fractionation. *Astron. Astrophys.* 575, A121 (2015).
- Arav, N., C. Chamberlain, G.A. Kriss, J.S. Kaastra, M. Cappi, M. Mehdipour, P.-O. Petrucci, K.C. Steenbrugge, E. Behar, S. Bianchi, R. Boissay, G. Branduardi-Raymont, E. Costantini, J.C. Ely, J. Ebrero, L. di Gesu, F.A. Harrison, S. Kaspi, J. Malzac, B. De Marco, G. Matt, K.P. Nandra, S. Paltani, B.M. Peterson, C. Pinto, G. Ponti, F. Pozo Nuñez, A. De Rosa, H. Seta, F. Ursini, C.P. de Vries, D.J. Walton and M. Whewell: Anatomy of the AGN in NGC 5548. II. The spatial, temporal, and physical nature of the outflow from HST/COS Observations. *Astron. Astrophys.* 577, A37 (2015).
- Arik, M., S. Aune, K. Barth, A. Belov, H. Bräuninger, J. Bremer, V. Burwitz, et al.: New solar axion search using the CERN Axion Solar Telescope with <sup>4</sup>He filling. *Physical Review D* 92, 021101 (2015).
- Aubourg, É., S. Bailey, J.E. Bautista, ..., A.G. Sánchez, et al.: Cosmological implications of baryon acoustic oscillation measurements. *Physical Review D* 92, 123516 (2015).
- Auster, H.-U., I. Apathy, G. Berghofer, K.-H. Fornacon, A. Remizov, C. Carr, C. Güttler, G. Haerendel, P. Heinisch, D. Hercik, M. Hilchenbach, E. Kührt, W. Magnes, U. Motschmann, I. Richter, C.T. Russell, A. Przyklenk, K. Schwingschuh, H. Sierks and K.-H. Glassmeier: The nonma-

- gnetic nucleus of comet 67P/Churyumov-Gerasimenko. *Science* 349, Issue 6247, pp. (2015).
- Bañados, E., B.P. Venemans, E. Morganson, J. Hodge, R. Decarli, F. Walter, D. Stern, E. Schlafly, E.P. Farina, J. Greiner, K.C. Chambers, X. Fan, H.-W. Rix, W.S. Burgett, P.W. Draper, J. Flewelling, N. Kaiser, N. Metcalfe, J.S. Morgan, J.L. Tonry and R.J. Wainscoat: Constraining the Radio-loud Fraction of Quasars at  $z > 5.5$ . *Ap. J.* 804, 118 (2015).
- Bailey, J.D. and J.D. Landstreet: The remarkably unremarkable global abundance variations of the magnetic Bp star HD 133652. *Astron. Astrophys.* 580, A81 (2015).
- Bailey, J.D., J. Grunhut and J.D. Landstreet: A comprehensive analysis of the magnetic standard star HD 94660: Host of a massive compact companion?. *Astron. Astrophys.* 575, A115 (2015).
- Bailey, N.D., S. Basu and P. Caselli: Kinematics in Partially Ionized Molecular Clouds: Implications for the Transition to Coherence. *Ap. J.* 798, 75 (2015).
- Balbinot, E., B. Santiago, L. Girardi, ..., D. Gruen, et al.: The LMC geometry and outer stellar populations from early DES data. *Mon. Not. of the R. Astro. Soc.*, 449(1), 1129-1145 (2015).
- 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. Gladders, 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: Erratum: 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.* 447, 325-325 (2015).
- Banerji, M., S. Jouvel, H. Lin, ..., J.J. Mohr, et al.: Combining Dark Energy Survey Science Verification data with near-infrared data from the ESO VISTA Hemisphere Survey. *Mon. Not. R. Astron. Soc.* 446, 2523-2539 (2015).
- Banzatti, A., K.M. Pontoppidan, S. Bruderer, J. Muzerolle and M.R. Meyer: Depletion of Molecular Gas by an Accretion Outburst in a Protoplanetary Disk. *Ap. J. Lett.* 798, L16 (2015).
- Baryshev, A.M., R. Hesper, F.P. Mena, ..., E.F. van Dishoeck, et al.: The ALMA Band 9 receiver. Design, construction, characterization, and first light. *Astron. Astrophys.* 577, A129 (2015).
- Baxter, E. J., R. Keisler, S. Dodelson, ... E.M. George, et al.: A measurement of gravitational lensing of the cosmic microwave background by galaxy clusters using data from the South Pole Telescope. *Ap. J.* 806(2), 247 (2015).
- Bechtol, K., A. Drlica-Wagner, E. Balbinot, ..., J. Mohr, et al.: Eight New Milky Way Companions Discovered in First-year Dark Energy Survey Data. *Ap. J.* 807, 50 (2015).
- Becker, W., M.G. Bernhardt and A. Jessner: Interplanetary GPS using pulsar signals. *Astron. Nachr.* 336, 749 (2015).
- Behrendt, M., A. Burkert and M. Schartmann: Structure formation in gas-rich galactic discs with finite thickness: from discs to rings. *Mon. Not. R. Astron. Soc.* 448, 1007-1019 (2015).
- Bender, R., J. Kormendy, M.E. Cornell and D.B. Fisher: Structure and Formation of cD Galaxies: NGC 6166 in ABELL 2199. *Ap. J.* 807, 56 (2015).
- Bisbas, T.G., T.J. Haworth, M.J. Barlow, S. Viti, T.J. Harries, T. Bell and J.A. Yates: TORUS-3DPDR: a self-consistent code treating three-dimensional photoionization and photodissociation regions. *Mon. Not. R. Astron. Soc.* 454, 2828-2843 (2015).
- Bisbas, T.G., T.J. Haworth, R.J.R. Williams, J. Mackey, P. Tremblin, A.C. Raga, S.J. Arthur, C. Baczynski, J.E. Dale, T. Frostholm, S. Geen, T. Haugboelle, D. Hubber, I.T. Iliev, R. Kuiper, J. Rosdahl, D. Sullivan, S. Walch and R. Wünsch: STARBENCH: the D-type expansion of an H II region. *Mon. Not. R. Astron. Soc.* 453, 1324-1343 (2015).
- Bizzocchi, L., C.D. Esposti, L. Dore, J. Gauss, and C. Puzzarini, C.: The Born–Oppenheimer equilibrium bond distance of GeO from millimetre- and submillimetre-wave spectra and quantum-chemical calculations. *Molecular Physics*, 113(8), 801-807 (2015).
- Bizzocchi, L., F. Tamassia, C. Degli Espostic, L. Dore, M. Villa, and E. Canè: The high-resolution infrared spectrum of fully deuterated diacetylene below  $1000\text{ cm}^{-1}$ . *Journal of Quantitative Spectroscopy & Radiative Transfer*, 165, 12-21 (2015).
- Blagau, A., G. Paschmann, B. Klecker and O. Marghitu: Experimental test of the  $p(1-\alpha)$  evolution for rotational discontinuities: cluster magnetopause observations. *Ann. Geophysicae* 33, 79-91 (2015).
- Bleem, L.E., B. Stalder, T. de Haan, ..., J.J. Mohr, et al.: Galaxy Clusters Discovered via the Sunyaev-Zel'dovich Effect in the 2500-Square-Degree SPT-SZ Survey. *Ap. J. Supp. Ser.* 216, 27 (2015).
- Bocquet, S., A. Saro, J.J. Mohr, et al.: Mass Calibration and Cosmological Analysis of the SPT-SZ Galaxy Cluster Sample Using Velocity Dispersion  $\sigma_v$  and X-Ray  $Y_x$  Measurements. *Ap. J.* 799, 214 (2015).
- Bogdán, Á., M. Vogelsberger, R.P. Kraft., L. Hernquist, M. Gilfanov., P. Torrey., E. Churazov, S. Genel, W.R. Forman, S.S. Murray, A. Vikhlinin, C. Jones, and H. Böhringer: Hot gaseous coronae around spiral galaxies: probing the illustris simulation. *Ap. J.* 804(1), 72, (2015).
- Bolatto, A.D., S.R. Warren, A.K. Leroy, L.J. Tacconi, N. Bouché, N.M. Förster Schreiber, R. Genzel, M.C. Cooper, D.B. Fisher, F. Combes, S. García-Burillo, A. Burkert, F. Bournaud, A. Weiss, A. Saintonge, S. Wuyts and A. Sternberg: High-resolution Imaging of PHIBSS  $z \sim 2$  Main-sequence Galaxies in CO  $J = 1 \rightarrow 0$ . *Ap. J.* 809, 175 (2015).
- Boller, T., R. González Felipe, A. Pérez Martínez, H. Pérez Rojas, M.M. Roth and C.A.Z. Vasconcellos: Editors' note. *Astron. Nachr.* 336, 721 (2015).
- Bonzini, M., V. Mainieri, P. Padovani, P. Andreani, S. Berta, M. Bethermin, D. Lutz, G. Rodighiero, D. Rosario, P. Tozzi and S. Vattakunnel: Star formation properties of sub-mJy radio sources. *Mon. Not. R. Astron. Soc.* 453, 1079-1094 (2015).
- Boselli, A., M. Fossati, G. Gavazzi, L. Ciesla, V. Buat, S. Boissier and T.M. Hughes: H $\alpha$  imaging of the Herschel

- Reference Survey. The star formation properties of a volume-limited, K-band-selected sample of nearby late-type galaxies. *Astron. Astrophys.* 579, 102, (2015).
- Bottacini, E., E. Orlando, J. Greiner, M. Ajello, I. Moskalenko and M. Persic: An Extreme Gravitationally Redshifted Iron Line at 4.8 keV in Mrk 876. *Ap. J. Lett.* 798, L14 (2015).
- Bower, G.C., S. Markoff, J. Dexter, M.A. Gurwell, J.M. Moran, A. Brunthaler, H. Falcke, P.C. Fragile, D. Maitra, D. Marrone, A. Peck, A. Rushton and M.C. Wright: Radio and Millimeter Monitoring of Sgr A\*: Spectrum, Variability, and Constraints on the G2 Encounter. *Ap. J.* 802, 69-82 (2015).
- Bower, G.C., J. Dexter, S. Markoff, M.A. Gurwell, R. Rao and I. McHardy: A Black Hole Mass-Variability Timescale Correlation at Submillimeter Wavelengths. *Ap. J. Lett.* 811, L6 (2015).
- Bradley Cenko, S., A.L. Urban, D.A. Perley, ..., J.F. Graham, J. Greiner, D.A. Kann, C.R. Klein, F. Knust, ..., K. Varela et al.: iPTF14yb: the first discovery of a gamma-ray burst afterglow independent of a high-energy trigger. *Ap. J.* 803(2), L24 (2015).
- Brennan, R., V. Pandya, R.S. Somerville, G. Barro, E.N. Taylor, S. Wuyts, E.F. Bell, A. Dekel, H.C. Ferguson, D.H. McIntosh, C. Papovich and J. Primack: Quenching and morphological transformation in semi-analytic models and CANDELS. *Mon. Not. R. Astron. Soc.* 451, 2933-2956 (2015).
- Brightman, M., M. Balokovi, D. Stern, et al.: Determining the covering factor of compton-thick active galactic nuclei with NuStar. *Ap. J.* 805(1), 41 (2015).
- Broderick, A.E., R. Narayan, J. Kormendy, E.S. Perlman, M.J. Rieke and S.S. Doeleman: The Event Horizon of M87. *Ap. J.* 805, 179 (2015).
- Bruderer, S., D. Harsono and E.F. van Dishoeck: Rotational excitation of an organic molecule (HCN) in protoplanetary disks. *Astron. Astrophys.* 575, A94 (2015).
- Brusa, M., A. Bongiorno, G. Cresci, M. Perna, A. Marconi, V. Mainieri, R. Maiolino, M. Salvato, E. Lusso, P. Santini, A. Comastri, F. Fiore, R. Gilli, F. La Franca, G. Lanzuisi, D. Lutz, A. Merloni, M. Mignoli, F. Onori, E. Piconcelli, D. Rosario, C. Vignali and G. Zamorani: X-shooter reveals powerful outflows in  $z \sim 1.5$  X-ray selected obscured quasar objects. *Mon. Not. R. Astron. Soc.* 446, 2394-2417 (2015).
- Brusa, M., C. Feruglio, G. Cresci, V. Mainieri, M.T. Sargent, M. Perna, P. Santini, F. Vito, A. Marconi, A. Merloni, D. Lutz, E. Piconcelli, G. Lanzuisi, R. Maiolino, D. Rosario, E. Daddi, A. Bongiorno, F. Fiore and E. Lusso: Evidence for feedback in action from the molecular gas content in the  $z \sim 1.6$  outflowing QSO XID2028. *Astron. Astrophys.* 578, A11 (2015).
- Buat, V., N. Oi, S. Heinis, L. Ciesla, D. Burgarella, H. Matsuhara, K. Malek, T. Goto, M. Malkan, L. Marchetti, Y. Ohyama, C. Pearson, S. Serjeant, T. Miyaji, M. Krumpke and H. Brunner: Dust attenuation up to  $z \approx 2$  in the AKARI North Ecliptic Pole Deep Field. *Astron. Astrophys.* 577, A141 (2015).
- Buchner, J., A. Georgakakis, K. Nandra, M. Brightman, M.-L. Menzel, Z. Liu, L.-T. Hsu, M. Salvato, C. Rangel, J. Aird, A. Merloni and N. Ross: Obscuration-dependent Evolution of Active Galactic Nuclei. *Ap. J.* 802, 89 (2015).
- Burgess, J. M., F. Ryde and H.-F. Yu: Taking the band function too far: a tale of two  $\alpha$ 's. *Mon. Not. R. Astro. Soc.* 451(2), 1511-1521 (2015).
- Burkert, A.: The Structure and Dark Halo Core Properties of Dwarf Spheroidal Galaxies. *Ap. J.* 808, 158 (2015).
- Burtscher, L., G. Orbande Xivry, R.I. Davies, A. Janssen, D. Lutz, D. Rosario, A. Contursi, R. Genzel, J. Graciá-Carpio, M.-Y. Lin, A. Schnorr-Müller, A. Sternberg, E. Sturm and L. Tacconi: Obscuration in active galactic nuclei: near-infrared luminosity relations and dust colors. *Astron. Astrophys.* 578, A47 (2015).
- Böhringer, H. and G. Chon: The extended ROSAT-ESO Flux-Limited X-ray Galaxy Cluster Survey (REFLEX II). VI. Effect of massive neutrinos on the cosmological constraints from clusters. *Astron. Astrophys.* 574, L8 (2015).
- Böhringer, H., G. Chon, M. Bristow and C.A. Collins: The extended ROSAT-ESO Flux-Limited X-ray Galaxy Cluster Survey (REFLEX II). V. Exploring a local underdensity in the southern sky. *Astron. Astrophys.* 574, A26 (2015).
- Cabrera, J., S. Csizmadia, G. Montagnier, ..., S. Carpano, et al.: Transiting exoplanets from the CoRoT space mission - XXVII. CoRoT-28b, a planet orbiting an evolved star, and CoRoT-29b, a planet showing an asymmetric transit. *Astron. Astrophys.*, 579, A36 (2015).
- Caldú-Primo, A., A. Schrubba, F. Walter, A. Leroy, A.D. Bolatto and S. Vogel: Spatially Extended and High-Velocity Dispersion Molecular Component in Spiral Galaxies: Single-Dish Versus Interferometric Observations. *Astron. J.* 149, 76 (2015).
- Campbell, D.J.R., C.M. Baugh, P.D. Mitchell, J.C. Helly, V. Gonzalez-Perez, C.G. Lacey, C.d.P. Lagos, V. Simha and D.J. Farrow: A new methodology to test galaxy formation models using the dependence of clustering on stellar mass. *Mon. Not. R. Astron. Soc.* 452, 852-871 (2015).
- Cappi, A., F. Marulli, J. Bel, ..., S. Phleps, C. Schimd, H. Schlegelhauser, et al.: The VIMOS Public Extragalactic Redshift Survey (VIPERS) - Hierarchical scaling and biasing. *Astron. Astrophys.* 579, A70 (2015).
- Caputi, K.I., O. Ilbert, C. Laigle, H.J. McCracken, O. Le Fèvre, J. Fynbo, B. Milvang-Jensen, P. Capak, M. Salvato and Y. Taniguchi: Spitzer Bright, UltraVISTA Faint Sources in COSMOS: The Contribution to the Overall Population of Massive Galaxies at  $z = 3-7$ . *Ap. J.* 810, 73 (2015).
- Carniani, S., A. Marconi, R. Maiolino, B. Balmaverde, M. Brusa, M. Cano-Díaz, C. Ciccone, A. Comastri, G. Cresci, F. Fiore, C. Feruglio, F. La Franca, V. Mainieri, F. Mannucci, T. Nagao, H. Netzer, E. Piconcelli, G. Risaliti, R. Schneider and O. Shemmer: Ionised outflows in  $z \sim 2.4$  quasar host galaxies. *Astron. Astrophys.* 580, A102 (2015).
- Cazzoli, G., V. Lattanzi, J.L. Alonso, J. Gauss and C. Puzzarini: The Hyperfine Structure of the Rotational Spectrum of HDO and its Extension to the THz Region: Accurate Rest Frequencies and Spectroscopic Parameters Forastrophysical Observations. *Ap. J.* 806, 100 (2015).

- Celebre, G., G. De Luca, M. E. Di Pietro, B. M. Giuliano, S. Melandri and G. Cinacchi: Detection of Significant Aprotic Solvent Effects on the Conformational Distribution of Methyl 4-Nitrophenyl Sulfoxide: From Gas-Phase Rotational to Liquid-Crystal NMR Spectroscopy. *ChemPhysChem* 16, 2327-2337 (2015).
- Cenko, S.B., A.L. Urban, D.A. Perley, A. Horesh, A. Corsi, D.B. Fox, Y. Cao, M.M. Kasliwal, A. Lien, I. Arcavi, J.S. Bloom, N.R. Butler, A. Cucchiara, J.A. de Diego, A.V. Filippenko, A. Gal-Yam, N. Gehrels, L. Georgiev, J. Jesús González, J.F. Graham, J. Greiner, D.A. Kann, C.R. Klein, F. Knust, S.R. Kulkarni, A. Kutyrev, R. Laher, W.H. Lee, P.E. Nugent, J.X. Prochaska, E. Ramirez-Ruiz, M.G. Richer, A. Rubin, Y. Urata, K. Varela, A.M. Watson and P.R. Wozniak: iPTF14yb: The First Discovery of a Gamma-Ray Burst Afterglow Independent of a High-energy Trigger. *Ap. J. Lett.* 803, L24 (2015).
- Chakraborti, S., A. Soderberg, L. Chomiuk, ..., A. von Kienlin, A. Rau, X. Zhang and V. Savchenko: A Missing-link in the Supernova-GRB Connection: The Case of SN 2012ap. *Ap. J.* 805, 187 (2015).
- Cassata, P., L.A.M. Tascari, O. Le Fèvre, ..., M. Salvato, et al.: The VIMOS Ultra-Deep Survey (VUDS): fast increase in the fraction of strong Lyman- $\alpha$  emitters from  $z = 2$  to  $z = 6$ . *Astron. Astrophys.* 573, 24C (2015).
- Chatterjee, S., J.A. Newman, T. Jeltema, A.D. Myers, J. Aird, A.L. Coil, M. Cooper, A. Finoguenov, E. Laird, A. Montero-Dorta, K. Nandra, C. Willmer and R. Yan: X-ray Surface Brightness Profiles of Active Galactic Nuclei in the Extended Groth Strip: Implications for AGN Feedback. *Publ. Astron. Soc. Pac.* 127, 716-725 (2015).
- Chatterjee, S., J.A. Newman, T. Jeltema, A.D. Myers, J. Aird, K. Bundy, C. Conselice, M. Cooper, E. Laird, K. Nandra and C. Willmer: X-Ray Emission in Non-AGN Galaxies at  $z \approx 1$ . *Ap. J.* 806, 136 (2015).
- Chatzikos, M., R. J. R. Williams, G. J. Ferland, R. E. A. Canning, A. C. Fabian, J. S. Sanders, P. A. M. van Hoof, R. M. Johnstone, M. Lykins and R. L. Porter: Implications of coronal line emission in NGC 4696. *Mon. Not. R. Astron. Soc.* 446, 1234-1244 (2015).
- Chatzopoulos, S., O. Gerhard, T.K. Fritz, C. Wegg, S. Gillessen, O. Pfuhl and F. Eisenhauer: Dust within the nuclear star cluster in the Milky Way. *Mon. Not. R. Astron. Soc.* 453, 939-950 (2015).
- Chatzopoulos, S., T.K. Fritz, O. Gerhard, S. Gillessen, C. Wegg, R. Genzel and O. Pfuhl: The old nuclear star cluster in the Milky Way: dynamics, mass, statistical parallax, and black hole mass. *Mon. Not. R. Astron. Soc.* 447, 948-968 (2015).
- Chiang, C.-T., C. Wagner, A.G. Sánchez, F. Schmidt and E. Komatsu: Position-dependent correlation function from the SDSS-III Baryon Oscillation Spectroscopic Survey Data Release 10 CMASS sample. *J. of Cosmology and Astroparticle Phys.* 9, 028 (2015).
- Choi, Y., F.F.S. van der Tak, E.F. van Dishoeck, F. Herpin and F. Wyrowski: Observations of water with Herschel/HIFI toward the high-mass protostar AFGL 2591. *Astron. Astrophys.* 576, A85 (2015).
- Chon, G. and H. Böhringer: Witnessing a merging bullet being stripped in the galaxy cluster RXCJ2359.3-6042. *Astron. Astrophys.* 574, A132 (2015).
- Chon, G., H. Böhringer and S. Zaroubi: On the definition of superclusters. *Astron. Astrophys.* 575, L14 (2015).
- Choudhury, R., P. Schilke, G. Stéphan, E. Bergin, T. Möller, A. Schmiedeke and A. Zernickel: Evolution of complex organic molecules in hot molecular cores. Synthetic spectra at (sub-)mm wavebands. *Astron. Astrophys.* 575, A68 (2015).
- Cicone, C., R. Maiolino, S. Gallerani, R. Neri, A. Ferrara, E. Sturm, F. Fiore, E. Piconcelli and C. Feruglio: Very extended cold gas, star formation and outflows in the halo of a bright quasar at  $z > 6$ . *Astron. Astrophys.* 574, A14 (2015).
- Ciesla, L., V. Charmandaris, A. Georgakakis, E. Bernhard, P.D. Mitchell, V. Buat, D. Elbaz, E. Le Floc'h, C.G. Lacey, G.E. Magdis and M. Xilouris: Constraining the properties of AGN host galaxies with spectral energy distribution modelling. *Astron. Astrophys.* 576, A10 (2015).
- Cisternas, M., K. Sheth, M. Salvato, J.H. Knapen, F. Civano and P. Santini: The Role of Bars in AGN Fueling in Disk Galaxies Over the Last Seven Billion Years. *Ap. J.* 802, 137 (2015).
- Cocato, L., M. Fabricius, L. Morelli, E.M. Corsini, A. Pizzella, P. Erwin, E. Dalla Bontà, R. Saglia, R. Bender and M. Williams: Properties and formation mechanism of the stellar counter-rotating components in NGC 4191. *Astron. Astrophys.* 581, A65 (2015).
- Coe, M.J., E.S. Bartlett, A.J. Bird, F. Haberl, J.A. Kennea, V.A. McBride, L.J. Townsend and A. Udalski: SXP 5.05 = IGR J00569-7226: using X-rays to explore the structure of a Be star's circumstellar disc. *Mon. Not. R. Astron. Soc.* 447, 2387-2403 (2015).
- Collazzi, A.C., C. Kouveliotou, A.J. van der Horst, G.A. Younes, Y. Kaneko, E. Göğüş, L. Lin, J. Granot, M.H. Finger, V.L. Chaplin, D. Huppenkothen, A.L. Watts, A. von Kienlin, M.G. Baring, D. Gruber, P.N. Bhat, M.H. Gibby, N. Gehrels, J. McEnery, M. van der Klis and R.A.M.J. Wijers: The Five Year Fermi/GBM Magnetar Burst Catalog. *Ap. J. Supp. Ser.* 218, 11 (2015).
- Combes, F., S. García-Burillo, V. Casasola, L.K. Hunt, M. Krips, A.J. Baker, F. Boone, A. Eckart, I. Marquez, I., R. Neri, E. Schinnerer, and L.J. Tacconi: ALMA reveals the feeding of the Seyfert 1 nucleus in NGC 1566. *Astron. Astrophys.* 565, A97 (2015).
- Connaughton, V., M.S. Briggs, A. Goldstein, C.A. Meegan, W.S. Paciesas, R.D. Preece, C.A. Wilson-Hodge, M.H. Gibby, J. Greiner, D. Gruber, P. Jenke, R.M. Kippen, V. Pelassa, S. Xiong, H.-F. Yu, P.N. Bhat, J.M. Burgess, D. Byrne, G. Fitzpatrick, S. Foley, M.M. Giles, S. Guiriec, A.J. van der Horst, A. von Kienlin, S. McBreen, S. McGlynn, D. Tierney and B.-B. Zhang: Localization of Gamma-Ray Bursts Using the Fermi Gamma-Ray Burst Monitor. *Ap. J. Supp. Ser.* 216, 32 (2015).
- Cooke, E.A., N.A. Hatch, A. Rettura, D. Wylezalek, A. Galametz, D. Stern, M. Brodwin, S.I. Muldrew, O. Almaini,

- C.J. Conselice, P.R. Eisenhardt, W.G. Hartley, M. Jarvis, N. Seymour and S.A. Stanford: The formation history of massive cluster galaxies as revealed by CARLA. *Mon. Not. R. Astron. Soc.* 452, 2318-2336 (2015).
- Cormier, D., S.C. Madden, V. Lebouteiller, N. Abel, S. Hony, F. Galliano, A. Rémy-Ruyer, F. Bigiel, M. Baes, A. Boselli, M. Chevance, A. Cooray, I. De Looze, V. Doublier, M. Galametz, T. Hughes, O. Ł. Karczewski, M.-Y. Lee, N. Lu and L. Spinoglio: The Herschel Dwarf Galaxy Survey. I. Properties of the low-metallicity ISM from PACS spectroscopy. *Astron. Astrophys.* 578, A53, (2015).
- Coti Zelati, F., N. Rea, A. Papitto, D. Viganò, J.A. Pons, R. Turolla, P. Esposito, D. Haggard, F.K. Baganoff, G. Ponti, G.L. Israel, S. Campana, D.F. Torres, A. Tiengo, S. Mereghetti, R. Perna, S. Zane, R.P. Mignani, A. Possenti and L. Stella: The X-ray outburst of the Galactic Centre magnetar SGR J1745-2900 during the first 1.5 year. *Mon. Not. R. Astron. Soc.* 449, 2685-2699 (2015).
- Cresci, G., A. Marconi, S. Zibetti, G. Risaliti, S. Carniani, F. Mannucci, A. Gallazzi, R. Maiolino, B. Balmaverde, M. Brusa, A. Capetti, C. Cicone, C. Feruglio, J. Bland-Hawthorn, T. Nagao, E. Oliva, M. Salvato, E. Sani, P. Tozzi, T. Urrutia and G. Venturi: The MAGNUM survey: positive feedback in the nuclear region of NGC 5643 suggested by MUSE. *Astron. Astrophys.* 582, A63 (2015).
- Cresci, G., V. Mainieri, M. Brusa, A. Marconi, M. Perna, F. Mannucci, E. Piconcelli, R. Maiolino, C. Feruglio, F. Fiore, A. Bongiorno, G. Lanzuisi, A. Merloni, M. Schramm, J.D. Silverman and F. Civano: Blowin' in the Wind: Both "Negative" and "Positive" Feedback in an Obscured High-z Quasar. *Ap. J.* 799, 82 (2015).
- Csizmadia, S., A. Hatzes, D. Gandolfi, ..., S. Carpano, et al.: Transiting exoplanets from the CoRoT space mission - XXVIII. CoRoT-33b, an object in the brown dwarf desert with 2:3 commensurability with its host star. *Astron. Astrophys.* 584, A13 (2015).
- Dalcanton, J.J., M. Fouesneau, D.W. Hogg, D. Lang, A.K. Leroy, K.D. Gordon, K. Sandstrom, D.R. Weisz, B.F. Williams, E.F. Bell, H. Dong, K.M. Gilbert, D.A. Gouliermis, P. Guhathakurta, T.R. Lauer, A. Schrubba, A.C. Seth and E.D. Skillman: The Panchromatic Hubble Andromeda Treasury. VIII. A Wide-area, High-resolution Map of Dust Extinction in M31. *Ap. J.* 814 (2015).
- Davidsson, B.J.R., H. Rickman, J.L. Bandfield, O. Groussin, P.J. Gutiérrez, M. Wilska, M.T. Capria, J.P. Emery, J. Helbert, L. Jorda, A. Maturilli and T.G. Mueller: Interpretation of thermal emission. I. The effect of roughness for spatially resolved atmosphereless bodies. *Icarus* 252, 1-21 (2015).
- Davies, R.I., L. Burtscher, D. Rosario, T. Storchi-Bergmann, A. Contursi, R. Genzel, J. Graciá-Carpio, E. Hicks, A. Janssen, M. Koss, M.-Y. Lin, D. Lutz, W. Maciejewski, F. Müller-Sánchez, G. Orbande Xivry, C. Ricci, R. Riffel, R.A. Riffel, M. Schartmann, A. Schnorr-Müller, A. Sternberg, E. Sturm, L. Tacconi and S. Veilleux: Insights on the Dusty Torus and Neutral Torus from Optical and X-Ray Obscuration in a Complete Volume Limited Hard X-Ray AGN Sample. *Ap. J.* 806, 127 (2015).
- Dawson, J.R., E. Ntormousi, Y. Fukui, T. Hayakawa and K. Fierlinger: A Young Giant Molecular Cloud Formed at the Interface of Two Colliding Shells: Observations Meet Simulations. *Ap. J.* 799, 64 (2015).
- De Cicco, D., M. Paolillo, G. Covone, S. Falocco, G. Longo, A. Grado, L. Limatola, M.T. Botticella, G. Pignata, E. Cappellaro, M. Vaccari, D. Trevese, F. Vagnetti, M. Salvato, M. Radovich, W.N. Brandt, M. Capaccioli, N.R. Napolitano and P. Schipani: Variability-selected active galactic nuclei in the VST-SUDARE/VOICE survey of the COSMOS field. *Astron. Astrophys.* 574, A112 (2015).
- De Marco, B., G. Ponti, T. Muñoz-Darias and K. Nandra: The evolution of the disc variability along the hard state of the black hole transient GX 339-4. *Mon. Not. R. Astron. Soc.* 454, 2360-2371 (2015).
- De Marco, B., G. Ponti, T. Muñoz-Darias and K. Nandra: Tracing the Reverberation Lag in the Hard State of Black Hole X-Ray Binaries. *Ap. J.* 814, 50 (2015).
- Delvecchio, I., D. Lutz, S. Berta, D.J. Rosario, G. Zamorani, F. Pozzi, C. Gruppioni, C. Vignali, M. Brusa, A. Cimatti, D.L. Clements, A. Cooray, D. Farrah, G. Lanzuisi, S. Oliver, G. Rodighiero, P. Santini and M. Symeonidis: Mapping the average AGN accretion rate in the SFR-M plane for Herschel-selected galaxies at  $0 < z \leq 2.5$ . *Mon. Not. R. Astron. Soc.* 449, 373-389 (2015).
- Desai, S., J.J. Mohr, R. Henderson, M. Kümmel, K. Paech and M. Wetzstein: CosmoDM and its application to Pan-STARRS data. *Journal of Instrumentation*, 10(6), C06014, 1-12 (2015).
- Di Gesu, L., E. Costantini, J. Ebrero, M. Mehdipour, J.S. Kaastra, F. Ursini, P.O. Petrucci, M. Cappi, G.A. Kriss, S. Bianchi, G. Branduardi-Raymont, B. De Marco, A. De Rosa, S. Kaspi, S. Paltani, C. Pinto, G. Ponti, K.C. Steenbrugge and M. Whewell: Anatomy of the AGN in NGC 5548. IV. The short-term variability of the outflows. *Astron. Astrophys.* 579, A42 (2015).
- Diebold, S.D., C.T. Tenzer, E.P. Perinati, A.S. Santangelo, M.F. Freyberg, P.F. Friedrich and J.J. Jochum: Soft proton scattering efficiency measurements on x-ray mirror shells. *Exp. Astron.* 39, 343-365 (2015).
- Diehl, R., T. Siegert, W. Hillebrandt, M. Krause, J. Greiner, K. Maeda, F.K. Röpkke, S.A. Sim, W. Wang and X. Zhang: SN2014J gamma rays from the  $^{56}\text{Ni}$  decay chain. *Astron. Astrophys.* 574, A72 (2015).
- Diehl, R.: Gamma rays from a supernova of type Ia: SN2014J. *Astron. Nachr.* 336, 464 (2015).
- Dotti, M., A. Merloni and C. Montuori: Linking the fate of massive black hole binaries to the active galactic nuclei luminosity function. *Mon. Not. R. Astron. Soc.* 448, 3603-3607 (2015).
- Drlica-Wagner, A., A. Albert, K. Bechtol, ..., J. Mohr, et al.: Search for Gamma-Ray Emission from DES Dwarf Spheroidal Galaxy Candidates with Fermi-LAT Data. *Ap. J. Lett.* 809, L4 (2015).
- Drlica-Wagner, A., K. Bechtol, E.S. Rykoff, ..., D. Gruen, et al.: Eight ultra-faint galaxy candidates discovered in year two of the dark energy survey. *Ap. J.* 813(2), 109 (2015).
- Drozdovskaya, M.N., C. Walsh, R. Visser, D. Harsono and E.F. van Dishoeck: The complex chemistry of outflow ca-

- vity walls exposed: the case of low-mass protostars. *Mon. Not. R. Astron. Soc.* 451, 3836-3856 (2015).
- Durkalec, A., O. Le Fèvre, A. Pollo, ..., M. Salvato, et al.: Evolution of clustering length, large-scale bias, and host halo mass at  $2 < z < 5$  in the VIMOS Ultra Deep Survey (VUDS)\*. *Astron. Astrophys.* 583, A128 (2015).
- Durkalec, A., O. Le Fèvre, S. de la Torre, ..., M. Salvato, et al.: Stellar mass to halo mass relation from galaxy clustering in VUDS: a high star formation efficiency at  $z \sim 3$ . *Astron. Astrophys.* 576, L7 (2015).
- Eardley, E., J.A. Peacock, T. McNaught-Roberts, C. Heymans, P. Norberg, M. Alpaslan, I. Baldry, J. Bland-Hawthorn, S. Brough, M.E. Cluver, S.P. Driver, D.J. Farrow, J. Liske, J. Loveday and A.S.G. Robotham: Galaxy And Mass Assembly (GAMA): the galaxy luminosity function within the cosmic web. *Mon. Not. R. Astron. Soc.* 448, 3665-3678 (2015).
- Eisenhauer, F. and W. Raab: Visible/Infrared Imaging Spectroscopy and Energy-Resolving Detectors. *Annual Review of Astronomy and Astrophysics* 53, 155-197 (2015).
- Elliott, J., R.S. de Souza, A. Krone-Martins, E. Cameron, E.E.O. Ishida, and J. Hilbe: The overlooked potential of Generalized Linear Models in astronomy - II: Gamma regression and photometric redshifts. *Astronomy and Computing*, 10, 61-72 (2015).
- Elliott, J., S. Khochfar, J. Greiner and C. Dalla Vecchia: The First Billion Years project: gamma-ray bursts at  $z > 5$ . *Mon. Not. R. Astron. Soc.* 446, 4239-4249 (2015).
- Erwin, P., R.P. Saglia, M. Fabricius, J. Thomas, N. Nowak, S. Rusli, R. Bender, J.C. Vega Beltrán and J.E. Beckman: Composite bulges: the coexistence of classical bulges and discy pseudo-bulges in S0 and spiral galaxies. *Mon. Not. R. Astron. Soc.* 446, 4039-4077 (2015).
- Erwin, P.: IMFIT: A Fast, Flexible New Program for Astronomical Image Fitting. *Ap. J.* 799, 226 (2015).
- Evans, M.G., J.D. Ilee, A.C. Boley, P. Caselli, R.H. Durisen, T.W. Hartquist and J.M.C. Rawlings: Gravitational instabilities in a protosolar-like disc - I. Dynamics and chemistry. *Mon. Not. R. Astron. Soc.* 453, 1147-1163 (2015).
- Faber, S.M. and E. van Dishoeck: Introduction. *Annual Review of Astronomy and Astrophysics* 53, V-VII (2015).
- Falocco, S., M. Paolillo, G. Covone, D. De Cicco, G. Longo, A. Grado, L. Limatola, M. Vaccari, M.T. Botticella, G. Pignata, E. Cappellaro, D. Trevese, F. Vagnetti, M. Salvato, M. Radovich, L. Hsu, M. Capaccioli, N. Napolitano, W.N. Brandt, A. Baruffolo, E. Cascone and P. Schipani: SUDARE-VOICE variability-selection of active galaxies in the Chandra Deep Field South and the SERVS/SWIRE region. *Astron. Astrophys.* 579, A115 (2015).
- Farrow, D.J., S. Cole, P. Norberg, N. Metcalfe, I. Baldry, J. Bland-Hawthorn, M.J.I. Brown, A.M. Hopkins, C.G. Lacey, J. Liske, J. Loveday, D.P. Palamara, A.S.G. Robotham and S. Sridhar: Galaxy and mass assembly (GAMA): projected galaxy clustering. *Mon. Not. R. Astron. Soc.* 454, 2120-2145 (2015).
- Fayolle, E.C., K.I. Öberg, R.T. Garrod, E.F. van Dishoeck and S.E. Bisschop: Complex organic molecules in organic-poor massive young stellar objects. *Astron. Astrophys.* 576, A45 (2015).
- Fedele, D., S. Bruderer, M.E. van den Ancker and I. Pascucci: On the Asymmetry of the OH Ro-vibrational Lines in HD 100546. *Ap. J.* 800, 23 (2015).
- Finoguenov, A., M. Tanaka, M. Cooper, V. Allevato, N. Cappelluti, A. Choi, C. Heymans, F.E. Bauer, F. Ziparo, P. Ranalli, J. Silverman, W.N. Brandt, Y.Q. Xue, J. Mulchaey, L. Howes, C. Schmid, D. Wilman, A. Comastri, G. Hasinger, V. Mainieri, B. Luo, P. Tozzi, P. Rosati, P. Capak and P. Popesso: Ultra-deep catalog of X-ray groups in the Extended Chandra Deep Field South. *Astron. Astrophys.* 576, A130 (2015).
- Fomalont, E. B., C. Vlahakis, S. Corder, ..., J. Pineda, et al.: The 2014 ALMA long baseline campaign: an overview. *Ap. J.L.* 809(1), L1 (2015).
- Fontani, F., G. Busquet, A. Palau, P. Caselli, Á. Sánchez-Monge, J.C. Tan and M. Audard: Deuteration and evolution in the massive star formation process. The role of surface chemistry. *Astron. Astrophys.* 575, A87 (2015).
- Fontani, F., P. Caselli, A. Palau, L. Bizzocchi and C. Ceccarelli: First Measurements of  $^{15}\text{N}$  Fractionation in  $\text{N}_2\text{H}^+$  toward High-mass Star-forming Cores. *Ap. J. Lett.* 808, L46 (2015).
- Fontanot, F., A.V. Macciò, M. Hirschmann, G. De Lucia, R. Kannan, R.S. Somerville and D. Wilman: On the dependence of galaxy morphologies on galaxy mergers. *Mon. Not. R. Astron. Soc.* 451, 2968-2977 (2015).
- Fossati, M., D.J. Wilman, F. Fontanot, G. De Lucia, P. Monaco, M. Hirschmann, J.T. Mendel, A. Beifiori and E. Contini: The definition of environment and its relation to the quenching of galaxies at  $z = 1-2$  in a hierarchical Universe. *Mon. Not. R. Astron. Soc.* 446, 2582-2598 (2015).
- Franco, G.A.P. and F.O. Alves: Tracing the Magnetic Field Morphology of the Lupus I Molecular Cloud. *Ap. J.* 807, 5 (2015).
- Frau, P., J.M. Girart, F.O. Alves, G.A.P. Franco, T. Onishi and C.G. Román-Zúñiga: Formation of dense structures induced by filament collisions. Correlation of density, kinematics, and magnetic field in the Pipe nebula. *Astron. Astrophys.* 574, L6 (2015).
- Friis, M., A. De Cia, T. Krühler, J.P.U. Fynbo, C. Ledoux, P.M. Vreeswijk, D.J. Watson, D. Malesani, J. Gorosabel, R.L.C. Starling, P. Jakobsson, K. Varela, K. Wiersema, A.P. Drachmann, A. Trotter, C.C. Thöne, A. de Ugarte Postigo, V. D'Elia, J. Elliott, M. Maturi, P. Goldoni, J. Greiner, J. Haislip, L. Kaper, F. Knust, A. La Cluyze, B. Milvang-Jensen, D. Reichart, S. Schulze, V. Sudilovsky, N. Tanvir and S.D. Vergani: The warm, the excited, and the molecular gas: GRB 121024A shining through its star-forming galaxy. *Mon. Not. R. Astron. Soc.* 451, 167-183 (2015).
- Furuya, K., Y. Aikawa, U. Hincelin, G.E. Hassel, E.A. Bergin, A.I. Vasyunin and E. Herbst: Water deuteration and ortho-to-para nuclear spin ratio of  $\text{H}_2$  in molecular clouds formed via the accumulation of H I gas. *Astron. Astrophys.* 584, A124 (2015).

- Gaczkowski, B., T. Preibisch, T. Stanke, M.G.H. Krause, A. Burkert, R. Diehl, K. Fierlinger, D. Kroell, J. Ngoumou and V. Roccatagliata: Squeezed between shells? The origin of the Lupus I molecular cloud. APEX/LABOCA, Herschel, and Planck observations. *Astron. Astrophys.* 584, A36 (2015).
- García-Burillo, S., F. Combes, A. Usero, S. Aalto, L. Colina, A. Alonso-Herrero, L.K. Hunt, S. Arribas, F. Costagliola, A. Labiano, R. Neri, M. Pereira-Santaella, L.J. Tacconi and P.P. van der Werf: High-resolution imaging of the molecular outflows in two mergers: IRAS 17208-0014 and NGC 1614. *Astron. Astrophys.* 580, A35 (2015).
- Gavazzi, G., G. Consolandi, M. Dotti, R. Fanali, M. Fossati, M. Fumagalli, E. Viscardi, G. Savorgnan, A. Boselli, L. Gutiérrez, H. Hernández Toledo, R. Giovanelli and M. P. Haynes: H $\alpha$ 3: an H $\alpha$  imaging survey of HI selected galaxies from ALFALFA. VI. The role of bars in quenching star formation from  $z = 3$  to the present epoch. *Astron. Astrophys.* 580, 116, (2015).
- Gavazzi, G., G. Consolandi, E. Viscardi, M. Fossati, G. Savorgnan, M. Fumagalli, L. Gutierrez, H. Hernandez Toledo, A. Boselli, R. Giovanelli, M.P. Haynes: H $\alpha$ 3: an H $\alpha$  imaging survey of HI selected galaxies from ALFALFA. V. The Coma supercluster survey completion. *Astron. Astrophys.* 576, 16, (2015).
- Gazak, J.Z., R. Kudritzki, C. Evans, L. Patrick, B. Davies, M. Bergemann, B. Plez, F. Bresolin, R. Bender, M. Wegner, A.Z. Bonanos and S.J. Williams: Red Supergiants as Cosmic Abundance Probes: The Sculptor Galaxy NGC 300. *Ap. J.* 805, 182 (2015).
- Genzel, R., L.J. Tacconi, D. Lutz, A. Saintonge, S. Berta, B. Magnelli, F. Combes, S. García-Burillo, R. Neri, A. Bolatto, T. Contini, S. Lilly, J. Boissier, F. Boone, N. Bouché, F. Bournaud, A. Burkert, M. Carollo, L. Colina, M.C. Cooper, P. Cox, C. Feruglio, N.M. Förster Schreiber, J. Freundlich, J. Gracia-Carpio, S. Juneau, K. Kovac, M. Lipa, T. Naab, P. Salome, A. Renzini, A. Sternberg, F. Walter, B. Weiner, A. Weiss and S. Wuyts: Combined CO and Dust Scaling Relations of Depletion Time and Molecular Gas Fractions with Cosmic Time, Specific Star-formation Rate, and Stellar Mass. *Ap. J.* 800, 20 (2015).
- Georgakakis, A., J. Aird, J. Buchner, M. Salvato, M.-L. Menzel, W.N. Brandt, I.D. McGreer, T. Dwelly, G. Mountrichas, C. Koki, I. Georgantopoulos, L.-T. Hsu, A. Merloni, Z. Liu, K. Nandra and N.P. Ross: The X-ray luminosity function of active galactic nuclei in the redshift interval  $z=3-5$ . *Mon. Not. R. Astron. Soc.* 453, 1946-1964 (2015).
- Georgakakis, A: The X-ray luminosity function of active galactic nuclei in the redshift interval  $z=3-5$ . *Mon. Not. R. Astron. Soc.* 453, URL:<http://mnras.oxfordjournals.org/content/453/2/1946>, 1946-1964 (2015).
- George, E.M., C.L. Reichardt, K.A. Aird, ..., J.J. Mohr, et al.: A Measurement of Secondary Cosmic Microwave Background Anisotropies from the 2500 Square-degree SPT-SZ Survey. *Ap. J.* 799, 177 (2015).
- Gesu, L. D., E. Costantini, J. Ebrero, M. Mehdipour, J.S. Kaastra, F. Ursini, P.O. Petrucci, M. Cappi, G.A. Kriss, S. Bianchi, G. Branduardi-Raymont, B. De Marco, A. Rosa, S. Kaspi, S. Paltani, C. Pinto, G. Ponti, K.C. Steenbrugge, K. C. and M. Whewell: Anatomy of the AGN in NGC 5548 - IV. The short-term variability of the outflows. *Astron. Astrophys.* 579, A42 (2015).
- Giallongo, E., A. Grazian, F. Fiore, A. Fontana, L. Pentericci, E. Vanzella, M. Dickinson, D. Kocevski, M. Castellano, S. Cristiani, H. Ferguson, S. Finkelstein, N. Grogin, N. Hathi, A.M. Koekemoer, J.A. Newman and M. Salvato: Faint AGNs at  $z > 4$  in the CANDELS GOODS-S field: looking for contributors to the reionization of the Universe. *Astron. Astrophys.* 578, A83 (2015).
- Girardi, M., A. Mercurio, I. Balestra, M. Nonino, A. Biviano, C. Grillo, P. Rosati, M. Annunziatella, R. Demarco, A. Fritz, R. Gobat, D. Lemze, V. Presotto, M. Scodreggio, P. Tozzi, G. Bartosch Caminha, M. Brescia, D. Coe, D. Kelson, A. Koekemoer, M. Lombardi, E. Medezinski, M. Postman, B. Sartoris, K. Umetsu, A. Zitrin, W. Boschin, O. Czoske, G. DeLucia, U. Kuchner, C. Maier, M. Meneghetti, P. Monaco, A. Monna, E. Munari, S. Seitz, M. Verdugo and B. Ziegler: CLASH-VLT: Substructure in the galaxy cluster MACS J1206.2-0847 from kinematics of galaxy populations. *Astron. Astrophys.* 579, A4 (2015).
- Goździewski, K., A. Slowikowska, D. Dimitrov, K. Krzeszowski, M. Żejmo, G. Kanbach, V. Burwitz, A. Rau, P. Irwani, A. Richichi, M. Gawroński, G. Nowak, I. Nasiroglu and D. Kubicki: The HU Aqr planetary system hypothesis revisited. *Mon. Not. R. Astron. Soc.* 448, 1118-1136 (2015).
- González-Alfonso, E., J. Fischer, E. Sturm, J. Gracia-Carpio, S. Veilleux, M. Meléndez, D. Lutz, A. Poglitsch, S. Aalto, N. Falstad, H.W.W. Spoon, D. Farrah, A. Blasco, C. Henkel, A. Contursi, A. Verma, M. Spaans, H.A. Smith, M.L.N. Ashby, S. Hailey-Dunsheath, S. García-Burillo, J. Martín-Pintado, P. van der Werf, R. Meijerink and R. Genzel: High-lying OH Absorption, [C II] Deficits, and Extreme  $L_{\text{FIR}}/M_{\text{H}_2}$  Ratios in Galaxies. *Ap. J.* 800, 69 (2015).
- Goto, M., T.R. Geballe and T. Usuda: Infrared Absorption Lines Toward NGC 7538 IRS 1: Abundances of H $_2$ , H $3^+$ , and CO. *Ap. J.* 806, 57G (2015).
- Grazian, A., A. Fontana, P. Santini, J.S. Dunlop, H.C. Ferguson, M. Castellano, R. Amorin, M.L.N. Ashby, G. Barro, P. Behroozi, K. Boutsia, K.I. Caputi, R.R. Chary, A. Dekel, M.E. Dickinson, S.M. Faber, G.G. Fazio, S.L. Finkelstein, A. Galametz, E. Giallongo, M. Giavalisco, N.A. Grogin, Y. Guo, D. Kocevski, A.M. Koekemoer, D.C. Koo, K.-S. Lee, Y. Lu, E. Merlin, B. Mobasher, M. Nonino, C. Papovich, D. Paris, L. Pentericci, N. Reddy, A. Renzini, B. Salmon, M. Salvato, V. Sommariva, M. Song and E. Vanzella: The galaxy stellar mass function at  $3.5 \leq z \leq 7.5$  in the CANDELS/UDS, GOODS-South, and HUDF fields. *Astron. Astrophys.* 575, A96 (2015).
- Greene, J.E., R. Janish, C.-P. Ma, N.J. McConnell, J.P. Blakeslee, J. Thomas and J.D. Murphy: The MASSIVE Survey. II. Stellar Population Trends Out to Large Radius in Massive Early-type Galaxies. *Ap. J.* 807, 11 (2015).
- Greiner, J. and G.A. Richter: Optical counterparts of ROSAT X-ray sources in two selected fields at low vs. high Galactic latitudes. *Astron. Astrophys.* 575, A42 (2015).
- Greiner, J., D.B. Fox, P. Schady, T. Krühler, M. Trenti,

- A. Cikota, J. Bolmer, J. Elliott, C. Delvaux, R. Perna, P. Afonso, D.A. Kann, S. Klose, S. Savaglio, S. Schmidl, T. Schweyer, M. Tanga and K. Varela: Gamma-Ray Bursts Trace UV Metrics of Star Formation over  $3 < z < 5$ . *Ap. J.* 809, 76 (2015).
- Greiner, J., P.A. Mazzali, D.A. Kann, T. Krühler, E. Pian, S. Prentice, F. Olivares E., A. Rossi, S. Klose, S. Taubenberger, F. Knust, P.M.J. Afonso, C. Ashall, J. Bolmer, C. Delvaux, R. Diehl, J. Elliott, R. Filgas, J.P.U. Fynbo, J.F. Graham, A.N. Guelbenzu, S. Kobayashi, G. Leloudas, S. Savaglio, P. Schady, S. Schmidl, T. Schweyer, V. Sudilovsky, M. Tanga, A.C. Updike, H. van Eerten and K. Varela: A very luminous magnetar-powered supernova associated with an ultra-long  $\gamma$ -ray burst. *Nature* 523, 189-192 (2015).
- Greisel, N., S. Seitz, N. Drory, R. Bender, R.P. Saglia and J. Snigula: Photometric redshifts and model spectral energy distributions of galaxies from the SDSS-III BOSS DR10 data. *Mon. Not. R. Astron. Soc.* 451, 1848-1867 (2015).
- Grenier, I.A., J.H. Black and A.W. Strong: The Nine Lives of Cosmic Rays in Galaxies. *Annual Review of Astronomy and Astrophysics* 53, 199-246 (2015).
- Grossi, M., L.K. Hunt, S.C. Madden, T.M. Hughes, R. Auld, M. Baes, G.J. Bendo, S. Bianchi, L. Bizzocchi, M. Boquien, A. Boselli, M. Clemens, E. Corbelli, L. Cortese, J. Davies, I. De Looze, S. di Serego Alighieri, J. Fritz, C. Pappalardo, D. Pierini, A. Rémy-Ruyer, M.W.L. Smith, J. Verstappen, S. Viaene and C. Vlahakis: The Herschel Virgo Cluster Survey. XVIII. Star-forming dwarf galaxies in a cluster environment. *Astron. Astrophys.* 574, A126 (2015).
- Gruen, D., S. Seitz, M.R. Becker, O. Friedrich and A. Mana: Cosmic variance of the galaxy cluster weak lensing signal. *Mon. Not. R. Astron. Soc.* 449, 4264-4276 (2015).
- Gruppioni, C., F. Calura, F. Pozzi, I. Delvecchio, S. Berta, G. De Lucia, F. Fontanot, A. Franceschini, L. Marchetti, N. Menci, P. Monaco and M. Vaccari: Star formation in Herschel's Monsters versus semi-analytic models. *Mon. Not. R. Astron. Soc.* 451, 3419-3426 (2015).
- Gvaramadze, V.V., A.Y. Kniazev, J.M. Bestenlehner, J. Bodensteiner, N. Langer, J. Greiner, E.K. Grebel, L.N. Berdnikov and Y. Beletsky: The blue supergiant MN18 and its bipolar circumstellar nebula. *Mon. Not. R. Astron. Soc.* 454, 219-237 (2015).
- Haerendel, G.: Flow bursts, breakup arc, and substorm current wedge. *J. Geophys. Res. (Space Phys.)* 120, 2796-2807 (2015).
- Haerendel, G.: Substorm onset: Current sheet avalanche and stop layer. *J. Geophys. Res. (Space Phys.)* 120, 1697-1714 (2015).
- Harsono, D., E.F. van Dishoeck, S. Bruderer, Z.-Y. Li and J.K. Jørgensen: Testing protostellar disk formation models with ALMA observations. *Astron. Astrophys.* 577, A22 (2015).
- Harsono, D., S. Bruderer and E.F. van Dishoeck: Volatile snowlines in embedded disks around low-mass protostars. *Astron. Astrophys.* 582, A41 (2015).
- Haworth, T.J., T.J. Harries, D.M. Acreman and T.G. Bisbas: On the relative importance of different microphysics on the D-type expansion of galactic H II regions. *Mon. Not. R. Astron. Soc.* 453, 2277-2289 (2015).
- Hays, B. M., N. Wehres, B. Alligood DePrince, A. A. M. Roy, J. C. Laas and S. L. Widicus Weaver: Rotational spectral studies of O(1D) insertion reactions with methane and ethylene: Methanol and vinyl alcohol in a supersonic expansion. *Chemical Physics Letters* 630, URL:<http://www.sciencedirect.com/science/article/pii/S0009261415002481>, 18-26 (2015).
- Heesen, V., E. Brinks, M.G.H. Krause, J.J. Harwood, U. Rau, M.P. Rupen, D.A. Hunter, K.T. Chyży and G. Kitchen: The non-thermal superbubble in IC 10: the generation of cosmic ray electrons caught in the act. *Mon. Not. R. Astron. Soc.* 447, L1-L5 (2015).
- Herrera-Camus, R, A.D. Bolatto, M.G. Wolfire, J.D. Smith, K.V. Croxall, R.C. Kennicutt, D. Calzetti, G. Helou, F. Walter, A.K. Leroy, B. Draine, B.R. Brandl, L. Armus, K.M. Sandstrom, D. Dale, G. Aniano, S. Meidt, M. Boquien, L.K. Hunt, M. Galametz, F.S. Tabatabaei, E. Murphy, P. Appleton, H. Roussel, C. Engelbracht, P. Beirão.: [C II] 158  $\mu$ m Emission as a Star Formation Tracer. *Ap. J.* 800, 1H (2015).
- Hocuk, S. and S. Cazaux: Interplay of gas and ice during cloud evolution. *Astron. Astrophys.* 576, A49 (2015).
- Holland, J.G., H. Böhringer, G. Chon and D. Pierini: Optical and X-ray profiles in the REXCESS sample of galaxy clusters\*. *Mon. Not. R. Astron. Soc.* 448, 2644-2664 (2015).
- Hoyle, B., M.M. Rau, C. Bonnett, S. Seitz and J. Weller: Data augmentation for machine learning redshifts applied to Sloan Digital Sky Survey galaxies. *Mon. Not. R. Astron. Soc.* 450, 305-316 (2015).
- Hoyle, B., M.M. Rau, K. Paech, C. Bonnett, S. Seitz and J. Weller: Anomaly detection for machine learning redshifts applied to SDSS galaxies. *Mon. Not. R. Astron. Soc.* 452, 4183-4194 (2015).
- Hoyle, B., M.M. Rau, R. Zitlau, S. Seitz and J. Weller: Feature importance for machine learning redshifts applied to SDSS galaxies. *Mon. Not. R. Astron. Soc.* 449, 1275-1283 (2015).
- Hozumi, S. and A. Burkert: Development of multiple tidal tails around globular clusters and dwarf satellite galaxies. *Mon. Not. R. Astron. Soc.* 446, 3100-3109 (2015).
- Hunt, L.K., S. García-Burillo, V. Casasola, P. Caselli, F. Combes, C. Henkel, A. Lundgren, R. Maiolino, K.M. Menten, L. Testi and A. Weiss: Molecular depletion times and the CO-to-H<sub>2</sub> conversion factor in metal-poor galaxies. *Astron. Astrophys.* 583, A114 (2015).
- Ikeda, H., T. Nagao, Y. Taniguchi, K. Matsuoka, M. Kajisawa, M. Akiyama, T. Miyaji, N. Kashikawa, T. Morokuma, Y. Shioya, M. Enoki, P. Capak, A.M. Koekemoer, D. Masters, M. Salvato, D.B. Sanders, E. Schinnerer and N.Z. Scoville: The Quasar-LBG Two-point Angular Cross-correlation Function at  $z \sim 4$  in the COSMOS Field. *Ap. J.* 809, 138 (2015).
- Ilbert, O., S. Arnouts, E. Le Floc'h, H. Aussel, M. Bethermin, P. Capak, B.-C. Hsieh, M. Kajisawa, A. Karim, O. Le



- Fèvre, N. Lee, S. Lilly, H.J. McCracken, L. Michel-Dansac, T. Moutard, M.A. Renzini, M. Salvato, D.B. Sanders, N. Scoville, K. Sheth, J.D. Silverman, V. Smolčić, Y. Taniguchi and L. Tresse: Evolution of the specific star formation rate function at  $z < 1.4$  Dissecting the mass-SFR plane in COSMOS and GOODS. *Astron. Astrophys.* 579, A2 (2015).
- Indriolo, N., D.A. Neufeld, M. Gerin, P. Schilke, A.O. Benz, B. Winkel, K.M. Menten, E.T. Chambers, J.H. Black, S. Bruderer, E. Falgarone, B. Godard, J.R. Goicoechea, H. Gupta, D.C. Lis, V. Ossenkopf, C.M. Persson, P. Sonnentrucker, F.F.S. van der Tak, E.F. van Dishoeck, M.G. Wolfire and F. Wyrowski: Herschel Survey of Galactic  $\text{OH}^+$ ,  $\text{H}_2\text{O}^+$ , and  $\text{H}_3\text{O}^+$ : Probing the Molecular Hydrogen Fraction and Cosmic-Ray Ionization Rate. *Ap. J.* 800, 40 (2015).
- Ivlev, A.V., J. Bartnick, M. Heinen, C.-R. Du, V. Nosenko and H. Löwen: Statistical Mechanics where Newton's Third Law is Broken. *Physical Review X* 5, 011035 (2015).
- Ivlev, A.V., M. Padovani, D. Galli and P. Caselli: Interstellar Dust Charging in Dense Molecular Clouds: Cosmic Ray Effects. *Ap. J.* 812, 135 (2015).
- Ivlev, A.V., T.B. Röcker, A. Vasyunin and P. Caselli: Impulsive Spot Heating and Thermal Explosion of Interstellar Grains Revisited. *Ap. J.* 805, 59 (2015).
- Ivlev, A.V., T.B. Röcker, L. Couédel, V. Nosenko and C.-R. Du: Wave modes in shear-deformed two-dimensional plasma crystals. *Physical Review E* 91, 063108 (2015).
- Janssen, A.W., S. Bruderer, E. Sturm, A. Contursi, R. Davies, S. Hailey-Dunsheath, A. Poglitsch, R. Genzel, J. Graciá-Carpio, D. Lutz, L. Tacconi, J. Fischer, E. González-Alfonso, A. Sternberg, S. Veilleux, A. Verma and L. Burtscher: A Deep Herschel/PACS Observation of CO(40-39) in NGC 1068: A Search for the Molecular Torus. *Ap. J.* 811, 74 (2015).
- Johnson, M.D., V.L. Fish, S.S. Doeleman, ..., J. Dexter, et al.: Resolved magnetic-field structure and variability near the event horizon of Sagittarius A\*. *Science* 350, 1242-1245 (2015).
- Kartaltepe, J.S., D.B. Sanders, J.D. Silverman, D. Kashino, J. Chu, H. Zahid, G. Hasinger, L. Kewley, K. Matsuoka, T. Nagao, L. Riguccini, M. Salvato, K. Schawinski, Y. Taniguchi, E. Treister, P. Capak, E. Daddi and K. Ohta: Rest-frame Optical Emission Lines in Far-infrared-selected Galaxies at  $z < 1.7$  from the FMOS-COSMOS Survey. *Ap. J. Lett.* 806, L35 (2015).
- Kartaltepe, J.S., M. Mozena, D. Kocevski, ..., D. Rosario, ..., and S. Wuyts: CANDELS Visual Classifications: Scheme, Data Release, and First Results. *Ap. J. Supp. Ser.* 221, 11 (2015).
- Kavanagh, P.J., M. Sasaki, E.T. Whelan, P. Maggi, F. Haberl, L.M. Bozzetto, M.D. Filipović and E.J. Crawford: XMM-Newton observation of SNR J0533-7202 in the Large Magellanic Cloud. *Astron. Astrophys.* 579, A63 (2015).
- Kavanagh, P.J., M. Sasaki, L.M. Bozzetto, M.D. Filipović, S.D. Points, P. Maggi and F. Haberl: XMM-Newton study of 30 Doradus C and a newly identified MCSNR J0536-6913 in the Large Magellanic Cloud\*. *Astron. Astrophys.* 573, A73 (2015).
- Kavanagh, P.J., M. Sasaki, L.M. Bozzetto, S.D. Points, M.D. Filipović, P. Maggi, F. Haberl and E.J. Crawford: Multi-frequency study of the newly confirmed supernova remnant MCSNR J0512-6707 in the Large Magellanic Cloud. *Astron. Astrophys.* 583, A121 (2015).
- Keto, E., P. Caselli and J. Rawlings: The dynamics of collapsing cores and star formation. *Mon. Not. R. Astron. Soc.* 446, 3731-3740 (2015).
- Kiss, C., T.G. Müller, M. Kidger, P. Mattisson, G. Marton: Comet C/2013 A1 (Siding Spring) as seen with the Herschel Space Observatory. *Astron. Astrophys.* 574, L3 (2015).
- Kissmann, R., M. Werner, O. Reimer and A.W. Strong: Propagation in 3D spiral-arm cosmic-ray source distribution models and secondary particle production using PICARD. *Astroparticle Phys.* 70, 39-53 (2015).
- Kocevski, D.D., M. Brightman, K. Nandra, A.M. Koekemoer, M. Salvato, J. Aird, E.F. Bell, L.-T. Hsu, J.S. Kartaltepe, D.C. Koo, J.M. Lotz, D.H. McIntosh, M. Mozena, D. Rosario and J.R. Trump: Are Compton-thick AGNs the Missing Link between Mergers and Black Hole Growth?. *Ap. J.* 814, 104 (2015).
- Kodric, M., A. Riffeser, S. Seitz, J. Snigula, U. Hopp, C.-H. Lee, C. Goessl, J. Koppenhoefer, R. Bender and W. Gieren: The M31 Near-infrared Period-Luminosity Relation and its Non-linearity for  $\delta$  Cep Variables with  $0.5 \leq \log(P) \leq 1.7$ . *Ap. J.* 799, 144 (2015).
- Kong, S., P. Caselli, J.C. Tan, V. Wakelam and O. Sipilä: The Deuterium Fractionation Timescale in Dense Cloud Cores: A Parameter Space Exploration. *Ap. J.* 804, 98 (2015).
- Kosyra, R., D. Gruen, S. Seitz, A. Mana, E. Rozo, E. Rykoff, A. Sanchez and R. Bender: Environment-based selection effects of Planck clusters. *Mon. Not. R. Astron. Soc.* 452, 2353-2366 (2015).
- Koyama, Y., T. Kodama, M. Hayashi, R. Shimakawa, I. Yamamura, F. Egusa, N. Oi, I. Tanaka, K.-i. Tadaki, S. Takita and S. Makiuti: Predicting dust extinction properties of star-forming galaxies from H $\alpha$ /UV ratio. *Mon. Not. R. Astron. Soc.* 453, 879-892 (2015).
- Krause, M.G.H., R. Diehl, Y. Bagetakos, E. Brinks, A. Burkert, O. Gerhard, J. Greiner, K. Kretschmer and T. Siebert:  $^{26}\text{Al}$  kinematics: superbubbles following the spiral arms?. Constraints from the statistics of star clusters and HI supershells. *Astron. Astrophys.* 578, A113 (2015).
- Krumpe, M., T. Miyaji, H. Brunner, H. Hanami, T. Ishigaki, T. Takagi, A.G. Markowitz, T. Goto, M.A. Malkan, H. Matsuuhara, C. Pearson, Y. Ueda and T. Wada: Chandra survey in the AKARI North Ecliptic Pole Deep Field - I. X-ray data, point-like source catalogue, sensitivity maps, and number counts. *Mon. Not. R. Astron. Soc.* 446, 911-931 (2015).
- Krühler, T., D. Malesani, J.P.U. Fynbo, O.E. Hartoog, J. Hjorth, P. Jakobsson, D.A. Perley, A. Rossi, P. Schady, S. Schulze, N.R. Tanvir, S.D. Vergani, K. Wiersema, P.M.J. Afonso, J. Bolmer, Z. Cano, S. Covino, V. D'Elia, A. de Ugarte Postigo, R. Filgas, M. Friis, J.F. Graham, J. Greiner, P. Goldoni, A. Gomboc, F. Hammer, J. Japelj, D.A. Kann, L. Kaper, S. Klose, A.J. Levan, G. Leloudas, B. Milvang-Jen-

- sen, A. Nicuesa Guelbenzu, E. Palazzi, E. Pian, S. Piranomonte, R. Sánchez-Ramírez, S. Savaglio, J. Selsing, G. Tagliaferri, P.M. Vreeswijk, D.J. Watson and D. Xu: GRB hosts through cosmic time. VLT/X-Shooter emission-line spectroscopy of 96  $\gamma$ -ray-burst-selected galaxies at  $0.1 < z < 3.6$ . *Astron. Astrophys.* 581, A125 (2015).
- Kudritzki, R.-P., I.-T. Ho, A. Schruba, A. Burkert, H.J. Zahid, F. Bresolin and G.I. Dima: The chemical evolution of local star-forming galaxies: radial profiles of ISM metallicity, gas mass, and stellar mass and constraints on galactic accretion and winds. *Mon. Not. R. Astron. Soc.* 450, 342-359 (2015).
- La Franca, F., F. Onori, F. Ricci, E. Sani, M. Brusa, R. Maiolino, S. Bianchi, A. Bongiorno, F. Fiore, A. Marconi and C. Vignali: Extending virial black hole mass estimates to low-luminosity or obscured AGN: the cases of NGC 4395 and MCG -01-24-012. *Mon. Not. R. Astron. Soc.* 449, 1526-1535 (2015).
- Lanzuisi, G., M. Perna, I. Delvecchio, S. Berta, M. Brusa, N. Cappelluti, A. Comastri, R. Gilli, C. Gruppioni, M. Mignoli, F. Pozzi, G. Vietri, C. Vignali and G. Zamorani: The most obscured AGN in the COSMOS field. *Astron. Astrophys.* 578, A120 (2015).
- Lanzuisi, G., P. Ranalli, I. Georgantopoulos, A. Georgakakis, I. Delvecchio, T. Akylas, S. Berta, A. Bongiorno, M. Brusa, N. Cappelluti, F. Civano, A. Comastri, R. Gilli, C. Gruppioni, G. Hasinger, K. Iwasawa, A. Koekemoer, E. Lusso, S. Marchesi, V. Mainieri, A. Merloni, M. Mignoli, E. Piconcelli, F. Pozzi, D.J. Rosario, M. Salvato, J. Silverman, B. Trakhtenbrot, C. Vignali and G. Zamorani: Compton thick AGN in the XMM-COSMOS survey. *Astron. Astrophys.* 573, A137 (2015).
- Lattanzi, V., G. Cazzoli and C. Puzzarini: Rare Isotopic Species of Sulfur Monoxide: The Rotational Spectrum in the THz Region. *Ap. J.* 813, 4 (2015).
- Laut, I., C. R ath, S. Zhdanov, V. Nosenko, L. Cou edel and H.M. Thomas: Synchronization of particle motion in compressed two-dimensional plasma crystals. *EPL (Europhysics Letters)* 110, 65001 (2015).
- Le F evre, O., L.A.M. Tasca, P. Cassata, B. Garilli, V. LeBrun, D. Maccagni, L. Pentericci, R. Thomas, E. Vanzella, G. Zamorani, E. Zucca, R. Amorin, S. Bardelli, P. Capak, L. Cassar , M. Castellano, A. Cimatti, J.G. Cuby, O. Cucciati, S. de la Torre, A. Durkalec, A. Fontana, M. Giavalisco, A. Grazian, N.P. Hathi, O. Ilbert, B.C. Lemaux, C. Moreau, S. Paltani, B. Ribeiro, M. Salvato, D. Schaerer, M. Scoddeggio, V. Sommariva, M. Talia, Y. Taniguchi, L. Tresse, D. Vergani, P.W. Wang, S. Charlot, T. Contini, S. Fotopoulou, C. L opez-Sanjuan, Y. Mellier and N. Scoville: The VIMOS Ultra-Deep Survey:  $\sim 10\,000$  galaxies with spectroscopic redshifts to study galaxy assembly at early epochs  $2 < z \sim 6$ . *Astron. Astrophys.* 576, A79 (2015).
- Le F evre, O., L.A.M. Tasca, P. Cassata, B.C. Lemaux, B. Garilli, V. Le Brun, D. Maccagni, L. Pentericci, R. Thomas, E. Vanzella, G. Zamorani, E. Zucca, R. Amorin, S. Bardelli, P. Capak, L.P. Cassar , M. Castellano, A. Cimatti, J.G. Cuby, O. Cucciati, S. de la Torre, A. Durkalec, A. Fontana, M. Giavalisco, A. Grazian, N.P. Hathi, O. Ilbert, C. Moreau, S. Paltani, B. Ribeiro, M. Salvato, D. Schaerer, M. Scoddeggio, V. Sommariva, M. Talia, Y. Taniguchi, L. Tresse, D. Vergani, P.W. Wang, S. Charlot, T. Contini, S. Fotopoulou, A.M. Koekemoer, C. L opez-Sanjuan, Y. Mellier and N. Scoville: The VIMOS Ultra-Deep Survey (VUDS): fast increase in the fraction of strong Lyman- $\alpha$  emitters from  $z = 2$  to  $z = 6$ . *Astron. Astrophys.* 573, A24 (2015).
- Lee, C.-H., A. Riffeser, S. Seitz, R. Bender and J. Koppenhoefer: Microlensing Events from the 11 Year Observations of the Wendelstein Calar Alto Pixellensing Project. *Ap. J.* 806, 161 (2015).
- Leiton, R., D. Elbaz, K. Okumura, ..., P. Popesso: GOODS-Herschel: identification of the individual galaxies responsible for the 80–290  $\mu\text{m}$  cosmic infrared background. *Astron. Astrophys.* 579, A93, (2015).
- Lellouch, E., R. Moreno, G.S. Orton, H. Feuchtgruber, T. Cavali , J.I. Moses, P. Hartogh, C. Jarchow and H. Sagawa: New constraints on the  $\text{CH}_4$  vertical profile in Uranus and Neptune from Herschel observations. *Astron. Astrophys.* 579, A121 (2015).
- Lena, D., A. Robinson, T. Storchi-Bergman, A. Schnorr-M uller, T. Seelig, R.A. Riffel, N.M. Nagar, G.S. Couto and L. Shadler: The Complex Gas Kinematics in the Nucleus of the Seyfert 2 Galaxy NGC 1386: Rotation, Outflows, and Inflows. *Ap. J.* 806, 84 (2015).
- Leroy, A.K., A.D. Bolatto, E.C. Ostriker, E. Rosolowsky, F. Walter, S.R. Warren, J. Donovan Meyer, J. Hodge, D.S. Meier, J. Ott, K. Sandstrom, A. Schruba, S. Veilleux and M. Zwaan: ALMA Reveals the Molecular Medium Fueling the Nearest Nuclear Starburst. *Ap. J.* 801, 25 (2015).
- Lewis, A.R., A.E. Dolphin, J.J. Dalcanton, D.R. Weisz, B.F. Williams, E.F. Bell, A.C. Seth, J.E. Simones, E.D. Skillman, Y. Choi, M. Fouesneau, P. Guhathakurta, L.C. Johnson, J.S. Kalirai, A.K. Leroy, A. Monachesi, H.-W. Rix and A. Schruba: The Panchromatic Hubble Andromeda Treasury. XI. The Spatially Resolved Recent Star Formation History of M31. *Ap. J.* 805, 183 (2015).
- Li, Y.-P., F. Yuan, Q. Yuan, Q.D. Wang, P.F. Chen, J. Neilsen, T. Fang, S. Zhang and J. Dexter: Statistics of X-Ray Flares of Sagittarius A\*: Evidence for Solar-like Self-organized Criticality Phenomena. *Ap. J.* 810, 19 (2015).
- Liao, J., L.M. Kistler, C.G. Moukikis, B. Klecker and I. Dandouras: Acceleration of  $\text{O}^+$  from the cusp to the plasma sheet. *J. Geophys. Res. (Space Phys.)* 120, 1022-1034 (2015).
- Ligterink, N.F.W., E.D. Tenenbaum and E.F. van Dishoeck: Search for methylamine in high mass hot cores. *Astron. Astrophys.* 576, A35 (2015).
- Liu, J., C. Hennig, S. Desai, B. Hoyle, J. Koppenhoefer, J.J. Mohr, K. Paech, W.S. Burgett, K.C. Chambers, S. Cole, P.W. Draper, N. Kaiser, N. Metcalfe, J.S. Morgan, P.A. Price, C.W. Stubbs, J.L. Tonry, R.J. Wainscoat and C. Waters: Optical confirmation and redshift estimation of the Planck cluster candidates overlapping the Pan-STARRS Survey. *Mon. Not. R. Astron. Soc.* 449, 3370-3380 (2015).
- Liu, J., J. Mohr, A. Saro, et al.: Analysis of Sunyaev-Zel'dovich effect mass-observable relations using South Pole Telescope observations of an X-ray selected sample of low-mass galaxy clusters and groups. *Mon. Not. R. As-*

tron. Soc. 448, 2085-2099 (2015).

Liu, Y., G.J. Herczeg, M. Gong, K.N. Allers, J.M. Brown, A.L. Kraus, M.C. Liu, E.L. Shkolnik and E.F. van Dishoeck: Herschel/PACS view of disks around low-mass stars and brown dwarfs in the TW Hydrae association. *Astron. Astrophys.* 573, A63 (2015).

Lockhart, K.E., L.J. Kewley, J.R. Lu, M.G. Allen, D. Rupke, D. Calzetti, R.I. Davies, M.A. Dopita, H. Engel, T.M. Heckman, C. Leitherer and D.B. Sanders: HST/WFC3 Observations of an Off-nuclear Superbubble in Arp 220. *Ap. J.* 810, 149 (2015).

Longobardi, A., M. Arnaboldi, O. Gerhard and J.C. Mihos: The build-up of the cD halo of M 87: evidence for accretion in the last Gyr. *Astron. Astrophys.* 579, L3 (2015).

Longobardi, A., M. Arnaboldi, O. Gerhard and R. Hantschik: The outer regions of the giant Virgo galaxy M 87 Kinematic separation of stellar halo and intracluster light. *Astron. Astrophys.* 579, A135 (2015).

Lyskova, N., J. Thomas, E. Churazov, S. Tremaine and T. Naab: Comparison of simple mass estimators for slowly rotating elliptical galaxies. *Mon. Not. R. Astron. Soc.* 450, 3442-3457 (2015).

Magnelli, B., R.J. Ivison, D. Lutz, I. Valtchanov, D. Farrah, S. Berta, F. Bertoldi, J. Bock, A. Cooray, E. Ibar, A. Karim, E. Le Floch, R. Nordon, S.J. Oliver, M. Page, P. Popesso, F. Pozzi, D. Rigopoulou, L. Riguccini, G. Rodighiero, D. Rosario, I. Roseboom, L. Wang and S. Wuyts: The far-infrared/radio correlation and radio spectral index of galaxies in the SFR-M<sub>∗</sub> plane up to  $z \sim 2$ . *Astron. Astrophys.* 573, A45 (2015).

Maitra, C., J. Ballet, M.D. Filipović, F. Haberl, A. Tiengo, K. Grieve and Q. Roper: IKT 16: the first X-ray confirmed composite SNR in the SMC. *Astron. Astrophys.* 584, A41 (2015).

Mancini, C., A. Renzini, E. Daddi, G. Rodighiero, S. Berta, N. Grogin, D. Kocevski and A. Koekemoer: Star formation and quenching among the most massive galaxies at  $z \sim 1.7$ . *Mon. Not. R. Astron. Soc.* 450, 763-786 (2015).

Manera, M., L. Samushia, R. Tojeiro, C. Howlett, A.J. Ross, W.J. Percival, H. Gil-Marín, J.R. Brownstein, A. Burden and F. Montesano: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: mock galaxy catalogues for the low-redshift sample. *Mon. Not. R. Astron. Soc.* 447, 437-445 (2015).

Marlowe, H., R. L. McEntaffer, R. Allured, C. T. DeRoo, B. D. Donovan, D. M. Miles, J. H. Tutt, V. Burwitz, B. Menz, G. Hartner, R.K. Smith, P. Cheimets, E. Hertz, J.A. Bookbinder, R. Günther, A. Yanson, G. Vacanti, M. Ackermann: Performance testing of an off-plane reflection grating and silicon pore optic spectrograph at PANTER. *Journal of Astronomical Telescopes, Instruments, and Systems* 1(4), 045004, (2015).

Martin-Drumel, M.A., C.P. Endres, O. Zingsheim, T. Salomon, J. van Wijngaarden, O. Pirali, S. Gruet, F. Lewen, S. Schlemmer, M.C. McCarthy, S. Thorwirth: The SOLEIL view on sulfur rich oxides: The S<sub>2</sub>O bending mode  $\nu_2$  at 380 cm<sup>-1</sup> and its analysis using an Automated Spectral Assignment Procedure (ASAP). *Journal of Molecular Spec-*

*troscopy* 315, 72-79 (2015).

Mashian, N., E. Sturm, A. Sternberg, A. Janssen, S. Hailley-Dunsheath, J. Fischer, A. Contursi, E. González-Alfonso, J. Graciá-Carpio, A. Poglitsch, S. Veilleux, R. Davies, R. Genzel, D. Lutz, L. Tacconi, A. Verma, A. Weiß, E. Polisensky and T. Nikola: High-J CO Sleds in Nearby Infrared Bright Galaxies Observed By Herschel/PACS. *Ap. J.* 802, 81 (2015).

Masters, D., P. Capak, D. Stern, O. Ilbert, M. Salvato, S. Schmidt, G. Longo, J. Rhodes, S. Paltani, B. Mobasher, H. Hoekstra, H. Hildebrandt, J. Coupon, C. Steinhardt, J. Speagle, A. Faisst, A. Kalinich, M. Brodwin, M. Brescia and S. Cavuoti: Mapping the Galaxy Color-Redshift Relation: Optimal Photometric Redshift Calibration Strategies for Cosmology Surveys. *Ap. J.* 813, 53 (2015).

Mehdipour, M., J.S. Kaastra, G.A. Kriss, M. Cappi, P.-O. Petrucci, K.C. Steenbrugge, N. Arav, E. Behar, S. Bianchi, R. Boissay, G. Branduardi-Raymont, E. Costantini, J. Ebrero, L. Di Gesu, F.A. Harrison, S. Kaspi, B. De Marco, G. Matt, S. Paltani, B.M. Peterson, G. Ponti, F. Pozo Nuñez, A. De Rosa, F. Ursini, C.P. de Vries, D.J. Walton and M. Whewell: Anatomy of the AGN in NGC 5548. I. A global model for the broadband spectral energy distribution. *Astron. Astrophys.* 575, A22 (2015).

Mei, S., C. Scarlata, L. Pentericci, J.A. Newman, B.J. Weiner, M.L.N. Ashby, M. Castellano, C.J. Conselice, S.L. Finkelstein, A. Galametz, N.A. Grogin, A.M. Koekemoer, M. Huertas-Company, C. Lani, R.A. Lucas, C. Papovich, M. Rafelski and H.I. Teplitz: Star-forming Blue ETGs in Two Newly Discovered Galaxy Overdensities in the HUDF at  $z=1.84$  and  $1.9$ : Unveiling the Progenitors of Passive ETGs in Cluster Cores. *Ap. J.* 804, 117 (2015).

Melchior, P., E. Suchyta, E. Huff, ..., J. Mohr, ..., J. Weller, et al.: Mass and galaxy distributions of four massive galaxy clusters from Dark Energy Survey Science Verification data. *Mon. Not. R. Astron. Soc.* 449, 2219-2238 (2015).

Meléndez, M., S. Veilleux, C. Martin, C. Engelbracht, J. Bland-Hawthorn, G. Cecil, F. Heitsch, A. McCormick, T. Müller, D. Rupke and S.H. Teng: Exploring the Dust Content of Galactic Winds with Herschel. I. NGC 4631. *Ap. J.* 804, 46 (2015).

Mendel, J.T., R.P. Saglia, R. Bender, A. Beifiori, J. Chan, M. Fossati, D.J. Wilman, K. Bandara, G.B. Brammer, N.M. Förster Schreiber, A. Galametz, S. Kulkarni, I.G. Momcheva, E.J. Nelson, P.G. van Dokkum, K.E. Whitaker and S. Wuyts: First Results from the VIRIAL Survey: The Stellar Content of UVJ-selected Quiescent Galaxies at  $1.5 < z < 2$  from KMOS. *Ap. J. Lett.* 804, L4 (2015).

Menz, B., C. Braig, H. Bräuninger, V. Burwitz, G. Hartner and P. Predehl: Large area x-ray collimator - the zone plate approach. *Appl. Opt.* 54, 7851-7858 (2015).

Merloni, A., T. Dwelly, M. Salvato, A. Georgakakis, J. Greiner, M. Krumpke, K. Nandra, G. Ponti and A. Rau: A tidal disruption flare in a massive galaxy? Implications for the fuelling mechanisms of nuclear black holes. *Mon. Not. R. Astron. Soc.* 452, 69-87 (2015).

Merten, J., M. Meneghetti, M. Postman, K. Umetsu, A. Zitrin, E. Medezinski, M. Nonino, A. Koekemoer, P. Mel-

- chior, D. Gruen, L.A. Moustakas, M. Bartelmann, O. Host, M. Donahue, D. Coe, A. Molino, S. Jouvel, A. Monna, S. Seitz, N. Czakon, D. Lemze, J. Sayers, I. Balestra, P. Rosati, N. Benítez, A. Biviano, R. Bouwens, L. Bradley, T. Broadhurst, M. Carrasco, H. Ford, C. Grillo, L. Infante, D. Kelson, O. Lahav, R. Massey, J. Moustakas, E. Rasia, J. Rhodes, J. Vega and W. Zheng: CLASH: The Concentration-Mass Relation of Galaxy Clusters. *Ap. J.* 806, 4 (2015).
- Michalowski, M.J., G. Gentile, J. Hjorth, M.R. Krumholz, N.R. Tanvir, P. Kamphuis, D. Burlon, M. Baes, S. Basa, S. Berta, J.M. Castro Cerón, D. Crosby, V. D'Elia, J. Elliott, J. Greiner, L.K. Hunt, S. Klose, M.P. Koprowski, E. LeFloc'h, D. Malesani, T. Murphy, A. Nicuesa Guelbenzu, E. Palazzi, J. Rasmussen, A. Rossi, S. Savaglio, P. Schady, J. Sollerman, A. de Ugarte Postigo, D. Watson, P. van der Werf, S.D. Vergani and D. Xu: Massive stars formed in atomic hydrogen reservoirs: H I observations of gamma-ray burst host galaxies. *Astron. Astrophys.* 582, A78 (2015).
- Miettinen, O., M. Novak, V. Smolčić, E. Schinnerer, M. Sargent, E.J. Murphy, M. Aravena, M. Bondi, C.L. Carilli, A. Karim, M. Salvato and G. Zamorani: (Sub)millimetre interferometric imaging of a sample of COSMOS/AzTEC submillimetre galaxies. II. The spatial extent of the radio-emitting regions. *Astron. Astrophys.* 584, A32 (2015).
- Miettinen, O., V. Smolčić, M. Novak, M. Aravena, A. Karim, D. Masters, D.A. Riechers, R.S. Bussmann, H.J. McCracken, O. Ilbert, F. Bertoldi, P. Capak, C. Feruglio, C. Halliday, J.S. Kartaltepe, F. Navarrete, M. Salvato, D. Sanders, E. Schinnerer and K. Sheth: (Sub)millimetre interferometric imaging of a sample of COSMOS/AzTEC submillimetre galaxies. I. Multiwavelength identifications and redshift distribution. *Astron. Astrophys.* 577, A29 (2015).
- Mignani, R.P., P. Moran, A. Shearer, V. Testa, A. Slowikowska, B. Rudak, K. Krzeszowski and G. Kanbach: VLT polarimetry observations of the middle-aged pulsar PSR B0656+14. *Astron. Astrophys.* 583, A105 (2015).
- Mirkazemi, M., A. Finoguenov, M.J. Pereira, M. Tanaka, M. Lerchster, F. Brimiouille, E. Egami, K. Kettula, G. Erfanianfar, H.J. McCracken, Y. Mellier, J.P. Kneib, E. Rykoff, S. Seitz, T. Erben and J.E. Taylor: Brightest X-Ray Clusters of Galaxies in the CFHTLS Wide Fields: Catalog and Optical Mass Estimator. *Ap. J.* 799, 60 (2015).
- Miyaji, T., G. Hasinger, M. Salvato, M. Brusa, N. Cappelluti, F. Civano, S. Puccetti, M. Elvis, H. Brunner, S. Fotopoulou, Y. Ueda, R.E. Griffiths, A.M. Koekemoer, M. Akiyama, A. Comastri, R. Gilli, G. Lanzuisi, A. Merloni and C. Vignali: Detailed Shape and Evolutionary Behavior of the X-Ray Luminosity Function of Active Galactic Nuclei. *Ap. J.* 804, 104 (2015).
- Mobasher, B., T. Dahlen, H.C. Ferguson, V. Acquaviva, G. Barro, S.L. Finkelstein, A. Fontana, R. Gruetzbauch, S. Johnson, Y. Lu, C.J. Papovich, J. Pforr, M. Salvato, R.S. Somerville, T. Wiklind, S. Wuyts, M.L.N. Ashby, E. Bell, C.J. Conselice, M.E. Dickinson, S.M. Faber, G. Fazio, K. Finlator, A. Galametz, E. Gawiser, M. Giavalisco, A. Grazian, N.A. Grogan, Y. Guo, N. Hathi, D. Kocevski, A.M. Koekemoer, D.C. Koo, J.A. Newman, N. Reddy, P. Santini and R.H. Wechsler: A Critical Assessment of Stellar Mass Measurement Methods. *Ap. J.* 808, 101 (2015).
- Moeckel, N. and A. Burkert: The Formation of Filamentary Bundles in Turbulent Molecular Clouds. *Ap. J.* 807, 67 (2015).
- Monna, A., S. Seitz, A. Zitrin, M.J. Geller, C. Grillo, A. Mercurio, N. Greisel, A. Halkola, S.H. Suyu, M. Postman, P. Rosati, I. Balestra, A. Biviano, D. Coe, D.G. Fabricant, H.S. Hwang and A. Koekemoer: Constraining the galaxy mass content in the core of A383 using velocity dispersion measurements for individual cluster members. *Mon. Not. R. Astron. Soc.* 447, 1224-1241 (2015).
- Morganson, E., P.J. Green, S.F. Anderson, J.J. Ruan, A.D. Myers, M. Eracleous, B. Kelly, C. Badenes, E. Bañados, M.R. Blanton, M.A. Bershad, J. Borissova, W.N. Brandt, W.S. Burgett, K. Chambers, P.W. Draper, J.R.A. Davenport, H. Flewelling, P. Garnavich, S.L. Hawley, K.W. Hodapp, J.C. Isler, N. Kaiser, K. Kinemuchi, R.P. Kudritzki, N. Metcalfe, J.S. Morgan, I. Páris, M. Parvizi, R. Poleski, P.A. Price, M. Salvato, T. Shanks, E.F. Schlafly, D.P. Schneider, Y. Shen, K. Stassun, J.T. Tonry, F. Walter and C.Z. Waters: The Time Domain Spectroscopic Survey: Variable Selection and Anticipated Results. *Ap. J.* 806, 244 (2015).
- Mori, K., C.J. Hailey, R. Krivonos, J. Hong, G. Ponti, F. Bauer, K. Perez, M. Nynka, S. Zhang, J.A. Tomsick, D.M. Alexander, F.K. Baganoff, D. Barret, N. Barrière, S.E. Boggs, A.M. Canipe, F.E. Christensen, W.W. Craig, K. Forster, P. Giommi, B.W. Grefenstette, J.E. Grindlay, F.A. Harrison, A. Hornstrup, T. Kitaguchi, J.E. Koglin, V. Luu, K.K. Madsen, P.H. Mao, H. Miyasaka, M. Perri, M.J. Pivovarov, S. Puccetti, V. Rana, D. Stern, N.J. Westergaard, W.W. Zhang and A. Zoglauer: NuSTAR Hard X-Ray Survey of the Galactic Center Region I: Hard X-Ray Morphology and Spectroscopy of the Diffuse Emission. *Ap. J.* 814, 94 (2015).
- Morris, A.M., D.D. Kocevski, J.R. Trump, B.J. Weiner, N.P. Hathi, G. Barro, T. Dahlen, S.M. Faber, S.L. Finkelstein, A. Fontana, H.C. Ferguson, N.A. Grogan, R. Gruetzbauch, Y. Guo, L.-T. Hsu, A.M. Koekemoer, D.C. Koo, B. Mobasher, J. Pforr, M. Salvato, T. Wiklind and S. Wuyts: A WFC3 Grism Emission Line Redshift Catalog in the GOODS-South Field. *Astron. J.* 149, 178 (2015).
- Mullaney, J.R., D.M. Alexander, J. Aird, E. Bernhard, E. Daddi, A. Del Moro, M. Dickinson, D. Elbaz, C.M. Harrison, S. Juneau, D. Liu, M. Pannella, D. Rosario, P. Santini, M. Sargent, C. Schreiber, J. Simpson and F. Stanley: ALMA and Herschel reveal that X-ray-selected AGN and main-sequence galaxies have different star formation rate distributions. *Mon. Not. R. Astron. Soc.* 453, L83-L87 (2015).
- Murillo, N.M., S. Bruderer, E.F. van Dishoeck, C. Walsh, D. Harsono, S.-P. Lai and C.M. Fuchs: A low-mass protostar's disk-envelope interface: disk-shadowing evidence from ALMA DCO<sup>+</sup> observations of VLA1623. *Astron. Astrophys.* 579, A114 (2015).
- Nandra, K., E.S. Laird, J.A. Aird, M. Salvato, A. Georgakakis, G. Barro, P.G. Perez-Gonzalez, P. Barmby, R.-R. Chary, A. Coil, M.C. Cooper, M. Davis, M. Dickinson, S.M. Faber, G.G. Fazio, P. Guhathakurta, S. Gwyn, L.-T. Hsu, J.-S. Huang, R.J. Ivison, D.C. Koo, J.A. Newman, C. Rangel, T. Yamada and C. Willmer: AEGIS-X: Deep Chandra

- Imaging of the Central Groth Strip. *Ap. J. Supp. Ser.* 220, 10 (2015).
- Neilsen, J., S. Markoff, M.A. Nowak, J. Dexter, G. Witzel, N. Barrière, Y. Li, F.K. Baganoff, N. Degenaar, P.C. Fragile, C. Gammie, A. Goldwurm, N. Grosso and D. Haggard: The X-Ray Flux Distribution of Sagittarius A\* as Seen by Chandra. *Ap. J.* 799, 199 (2015).
- Newman, A.B., S. Belli, R.S. Ellis: Discovery of a Strongly Lensed Massive Quiescent Galaxy at  $z = 2.636$ : Spatially Resolved Spectroscopy and Indications of Rotation. *ApJ* 813, L7 (2015).
- Ngoumou, J., D. Hubber, J.E. Dale and A. Burkert: First Investigation of the Combined Impact of Ionizing Radiation and Momentum Winds from a Massive Star on a Self-gravitating Core. *Ap. J.* 798, 32 (2015).
- Nicuesa Guelbenzu, A., S. Klose, E. Palazzi, J. Greiner, M.J. Michalowski, D.A. Kann, L.K. Hunt, D. Malesani, A. Rossi, S. Savaglio, S. Schulze, D. Xu, P.M.J. Afonso, J. Elliott, P. Ferrero, R. Filgas, D.H. Hartmann, T. Krühler, F. Knust, N. Masetti, F. Olivares E., A. Rau, P. Schady, S. Schmidl, M. Tanga, A.C. Updike and K. Varela: Identifying the host galaxy of the short GRB 100628A. *Astron. Astrophys.* 583, A88 (2015).
- Nisini, B., G. Santangelo, T. Giannini, S. Antonucci, S. Cabrit, C. Codella, C.J. Davis, J. Eislöffel, L. Kristensen, G. Herczeg, D. Neufeld and E.F. van Dishoeck: [O I] 63  $\mu$ m Jets in Class 0 Sources Detected By Herschel. *Ap. J.* 801, 121 (2015).
- Nosenko, V., S.K. Zhdanov, H.M. Thomas, J. Carmona-Reyes and T.W. Hyde: Spontaneous formation and spin of particle pairs in a single-layer complex plasma crystal. *Europhys. Lett.* 112, 45003-p1-45003-p6 (2015).
- Obreschkow, D., K. Glazebrook, R. Bassett, D.B. Fisher, R.G. Abraham, E. Wisnioski, A.W. Green, P.J. McGregor, I. Damjanov, A. Popping and I. Jørgensen: Low Angular Momentum in Clumpy, Turbulent Disk Galaxies. *Ap. J.* 815, 97 (2015).
- Öberg, K.I., K. Furuya, R. Loomis, Y. Aikawa, S.M. Andrews, C. Qi, E.F. van Dishoeck and D.J. Wilner: Double DCO<sup>+</sup> Rings Reveal CO Ice Desorption in the Outer Disk Around IM Lup. *Ap. J.* 810, 112 (2015).
- Ogiya, G. and A. Burkert: Re-examining the too-big-to-fail problem for dark matter haloes with central density cores. *Mon. Not. R. Astron. Soc.* 446, 2363-2369 (2015).
- Oh, S.-H., D.A. Hunter, E. Brinks, B.G. Elmegreen, A. Schrubba, F. Walter, M.P. Rupen, L.M. Young, C.E. Simpson, M.C. Johnson, K.A. Herrmann, D. Ficut-Vicas, P. Cigan, V. Heesen, T. Ashley and H.-X. Zhang: High-resolution Mass Models of Dwarf Galaxies from LITTLE THINGS. *Astron. J.* 149, 180 (2015).
- Olamaie, M., F. Feroz, K.J.B. Grainge, M.P. Hobson, J.S. Sanders and R.D.E. Saunders: BAYES-X: a Bayesian inference tool for the analysis of X-ray observations of galaxy clusters. *Mon. Not. R. Astron. Soc.* 446, 1799-1819 (2015).
- Olivares E., F., J. Greiner, P. Schady, S. Klose, T. Krühler, A. Rau, S. Savaglio, D.A. Kann, G. Pignata, J. Elliott, A. Rossi, M. Nardini, P.M.J. Afonso, R. Filgas, A. Nicuesa Guelbenzu, S. Schmidl and V. Sudilovsky: Multiwavelength analysis of three supernovae associated with gamma-ray bursts observed by GROND. *Astron. Astrophys.* 577, A44 (2015).
- Paizis, A., M.A. Nowak, J. Rodriguez, A. Segreto, S. Chetty, A. Rau, J. Chenevez, M. Del Santo, J. Greiner and S. Schmidl: Investigating the Nature of IGR J17454-2919 Using X-Ray and Near-infrared Observations. *Ap. J.* 808, 34 (2015).
- Panagoulia, E.K., J.S. Sanders and A.C. Fabian: A volume-limited sample of X-ray galaxy groups and clusters - III. Central abundance drops. *Mon. Not. R. Astron. Soc.* 447, 417-436 (2015).
- Pasham, D.R., S.B. Cenko, A.J. Levan, G.C. Bower, A. Horeh, G.C. Brown, S. Dolan, K. Wiersema, A.V. Filippenko, A.S. Fruchter, J. Greiner, P.T. O'Brien, K.L. Page, A. Rau and N.R. Tanvir: A Multiwavelength Study of the Relativistic Tidal Disruption Candidate Swift J2058.4+0516 at Late Times. *Ap. J.* 805, 68 (2015).
- Pastorello, A., L. Wyrzykowski, S. Valenti, ..., J. Greiner, ..., A. Rau, et al.: Massive stars exploding in a He-rich circumstellar medium - V. Observations of the slow-evolving SN Ibn OGLE-2012-SN-006. *Mon. Not. R. Astron. Soc.* 449, 1941-1953 (2015).
- Paz, D.J. and A.G. Sánchez: Improving the precision matrix for precision cosmology. *Mon. Not. R. Astron. Soc.* 454, 4326-4334 (2015).
- Perez-Villegas, A., B. Pichardo and E. Moreno: Stellar Orbital Studies in Normal Spiral Galaxies. II. Restrictions on Structural and Dynamical Parameters on Spiral Arms. *Ap. J.* 809, 170, (2015).
- Perez-Villegas, A., G. C. Gomez and B. Pichardo: The galactic branches as a possible evidence for transient spiral arms. *Mon. Not. R. Astron. Soc.* 451, 2922-2932 (2015).
- Perna, M., M. Brusa, G. Cresci, A. Comastri, G. Lanzuisi, E. Lusso, A. Marconi, M. Salvato, G. Zamorani, A. Bongiorno, V. Mainieri, R. Maiolino and M. Mignoli: Galaxy-wide outflows in  $z \sim 1.5$  luminous obscured quasars revealed through near-IR slit-resolved spectroscopy. *Astron. Astrophys.* 574, A82 (2015).
- Perna, M., M. Brusa, M. Salvato, G. Cresci, G. Lanzuisi, S. Berta, I. Delvecchio, F. Fiore, D. Lutz, E. Le Floc'h, V. Mainieri and L. Riguccini: SINFONI spectra of heavily obscured AGNs in COSMOS: Evidence of outflows in a MIR/O target at  $z \sim 2.5$ . *Astron. Astrophys.* 583, A72 (2015).
- Perrott, Y.C., M. Olamaie, C. Rumsey, ..., H. Böhringer, et al.: Comparison of Sunyaev-Zel'dovich measurements from Planck and from the Arcminute Microkelvin Imager for 99 galaxy clusters. *Astron. Astrophys.* 580, A95 (2015).
- Petroff, E., M. Bailes, E.D. Barr, ..., J. Greiner, et al.: A real-time fast radio burst: polarization detection and multi-wavelength follow-up. *Mon. Not. R. Astron. Soc.* 447, 246-255 (2015).
- Pfuhl, O., S. Gillessen, F. Eisenhauer, R. Genzel, P.M. Plewa, T. Ott, A. Ballone, M. Schartmann, A. Burkert, T.K.

- Fritz, R. Sari, E. Steinberg and A.-M. Madigan: The Galactic Center Cloud G2 and its Gas Streamer. *Ap. J.* 798, 111 (2015).
- Pineda, J.E., S.S.R. Offner, R.J. Parker, H.G. Arce, A.A. Goodman, P. Caselli, G.A. Fuller, T.L. Bourke and S.A. Corder: The formation of a quadruple star system with wide separation. *Nature* 518, 213-215 (2015).
- Pinilla, P., M. de Juan Ovelar, S. Ataiee, M. Benisty, T. Birnstiel, E.F. van Dishoeck and M. Min, M: Gas and dust structures in protoplanetary disks hosting multiple planets. *Astron. Astrophys.* 573, A9 (2015).
- Pinilla, P., N. van der Marel, L.M. Pérez, E.F. van Dishoeck, S. Andrews, T. Birnstiel, G. Herczeg, K.M. Pontoppidan and T. van Kempen: Testing particle trapping in transition disks with ALMA. *Astron. Astrophys.* 584, A16 (2015).
- Pinto, C., J.S. Sanders, N. Werner, J. de Plaa, A.C. Fabian, Y.-Y. Zhang, J.S. Kaastra, A. Finoguenov and J. Ahoranta: Chemical Enrichment RGS cluster Sample (CHEERS): Constraints on turbulence. *Astron. Astrophys.* 575, A38 (2015).
- Piranomonte, S., J. Japelj, S.D. Vergani, ..., T. Krühler, et al.: GRB host galaxies with VLT/X-Shooter: properties at  $0.8 < z < 1.3$ . *Mon. Not. R. Astron. Soc.* 452(4), 3293-3303 (2015).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, ..., A.W. Strong, et al.: Planck intermediate results. XXVIII. Interstellar gas and dust in the Chamaeleon clouds as seen by Fermi LAT and Planck. *Astron. Astrophys.* 582, A31 (2015).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, C. Armitage-Caplan, ..., H. Böhringer, ..., G. Chon, et al.: Planck 2013 results. XXXII. The updated Planck catalogue of Sunyaev-Zeldovich sources. *Astron. Astrophys.* 581, A14 (2015).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M. Arnaud, ..., H. Böhringer, ..., G. Chon, et al.: Planck intermediate results. XXVI. Optical identification and redshifts of Planck clusters with the RTT150 telescope. *Astron. Astrophys.* 582, A29 (2015).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, M.I.R. Alves, ..., A.W. Strong, et al.: Planck intermediate results. XXIII. Galactic plane emission components derived from Planck with ancillary data. *Astron. Astrophys.* 580, A13 (2015).
- Plant, D.S., R.P. Fender, G. Ponti, T. Muñoz-Darias and M. Coriat: The truncated and evolving inner accretion disc of the black hole GX 339-4. *Astron. Astrophys.* 573, A120 (2015).
- Plewa, P.M., S. Gillessen, F. Eisenhauer, T. Ott, O. Pfuhl, E. George, J. Dexter, M. Habibi, R. Genzel, M.J. Reid and K.M. Menten: Pinpointing the near-infrared location of Sgr A\* by correcting optical distortion in the NACO imager. *Mon. Not. R. Astron. Soc.* 453, 3234-3244 (2015).
- Pon, A., P. Caselli, D. Johnstone, M. Kaufman, M.J. Butler, F. Fontani, I. Jiménez-Serra and J.C. Tan: Mid-J CO shock tracing observations of infrared dark clouds. I. *Astron. Astrophys.* 577, A75 (2015).
- Ponti, G., B. De Marco, M.R. Morris, A. Merloni, T. Muñoz-Darias, M. Clavel, D. Haggard, S. Zhang, K. Nandra, S. Gillessen, K. Mori, J. Neilsen, N. Rea, N. Degenaar, R. Terrier and A. Goldwurm: Fifteen years of XMM-Newton and Chandra monitoring of Sgr A\*: evidence for a recent increase in the bright flaring rate. *Mon. Not. R. Astron. Soc.* 454, 1525-1544 (2015).
- Ponti, G., M.R. Morris, R. Terrier, F. Haberl, R. Sturm, M. Clavel, S. Soldi, A. Goldwurm, P. Predehl, K. Nandra, G. Bélanger, R.S. Warwick and V. Tatischeff: The XMM-Newton view of the central degrees of the Milky Way. *Mon. Not. R. Astron. Soc.* 453, 172-213 (2015).
- Ponti, G., S. Bianchi, T. Muñoz-Darias, B. De Marco, T. Dwelly, R.P. Fender, K. Nandra, N. Rea, K. Mori, D. Haggard, C.O. Heinke, N. Degenaar, T. Aramaki, M. Clavel, A. Goldwurm, C.J. Hailey, G.L. Israel, M.R. Morris, A. Rushton and R. Terrier: On the Fe K absorption - accretion state connection in the Galactic Centre neutron star X-ray binary AX J1745.6-2901. *Mon. Not. R. Astron. Soc.* 446, 1536-1550 (2015).
- Popesso, P., A. Biviano, A. Finoguenov, D. Wilman, M. Salvato, B. Magnelli, C. Gruppioni, F. Pozzi, G. Rodighiero, F. Ziparo, S. Berta, D. Elbaz, M. Dickinson, D. Lutz, B. Altieri, H. Aussel, A. Cimatti, D. Fadda, O. Ilbert, E. Le Floc'h, R. Nordon, A. Poglitsch and C.K. Xu: The evolution of galaxy star formation activity in massive haloes. *Astron. Astrophys.* 574, A105 (2015).
- Popesso, P., A. Biviano, A. Finoguenov, D. Wilman, M. Salvato, B. Magnelli, C. Gruppioni, F. Pozzi, G. Rodighiero, F. Ziparo, S. Berta, D. Elbaz, M. Dickinson, D. Lutz, B. Altieri, H. Aussel, A. Cimatti, D. Fadda, O. Ilbert, E. Le Floc'h, R. Nordon, A. Poglitsch, S. Genel and C.K. Xu: The role of massive halos in the star formation history of the Universe. *Astron. Astrophys.* 579, A132 (2015).
- Popping, G., K.I. Caputi, S.C. Trager, R.S. Somerville, A. Dekel, S.A. Kassin, D.D. Kocevski, A.M. Koekemoer, S.M. Faber, H.C. Ferguson, A. Galametz, N.A. Grogan, Y. Guo, Y. Lu, A.v.d. Wel and B.J. Weiner: The inferred evolution of the cold gas properties of CANDELS galaxies at  $0.5 < z < 3.0$ . *Mon. Not. R. Astron. Soc.* 454, 2258-2276 (2015).
- Portail, M., C. Wegg and O. Gerhard: Peanuts, brezels and bananas: food for thought on the orbital structure of the Galactic bulge. *Mon. Not. R. Astron. Soc.* 450, L66-L70 (2015).
- Portail, M., C. Wegg, O. Gerhard and I. Martínez-Valpuesta: Made-to-measure models of the Galactic box/peanut bulge: stellar and total mass in the bulge region. *Mon. Not. R. Astron. Soc.* 448, 713-731 (2015).
- Pál, A., C. Kiss, J. Horner, R. Szakáts, E. Vilenius, T.G. Müller, J. Acosta-Pulido, J. Licandro, A. Cabrera-Lavers, K. Sárneczky, G.M. Szabó, A. Thirouin, B. Sipócz, Á. Dózsa and R. Duffard: Physical properties of the extreme Centaur and super-comet candidate 2013 AZ<sub>60</sub>. *Astron. Astrophys.* 583, A93 (2015).
- Raddi, R., B.T. Gänsicke, D. Koester, J. Farihi, J.J. Hermes, S. Scaringi, E. Breedt and J. Girven: Likely detection of water-rich asteroid debris in a metal-polluted white dwarf. *Mon. Not. R. Astron. Soc.* 450, 2083-2093 (2015).

- Ranalli, P., I. Georgantopoulos, A. Corral, L. Koutoulidis, M. Rovilos, F.J. Carrera, A. Akylas, A. Del Moro, A. Georgakakis, R. Gilli and C. Vignali: The XMM-Newton survey in the H-ATLAS field. *Astron. Astrophys.* 577, A121 (2015).
- Rau, M.M., S. Seitz, F. Brimioulle, E. Frank, O. Friedrich, D. Gruen and B. Hoyle: Accurate photometric redshift probability density estimation - method comparison and application. *Mon. Not. R. Astron. Soc.* 452, 3710-3725 (2015).
- Riaz, B. and E. T. Whelan: HH 1158: The Lowest Luminosity Externally Irradiated Herbig-Haro Jet. *Ap. J. Lett.* 815, 31-37 (2015).
- Ricarte, A. and J. Dexter: The Event Horizon Telescope: exploring strong gravity and accretion physics. *Mon. Not. R. Astron. Soc.* 446, 1973-1987 (2015).
- Rieke, G.H., G.S. Wright, T. Böker, J. Bouwman, L. Colina, A. Glasse, K.D. Gordon, T.P. Greene, M. Güdel, T. Henning, K. Justtanont, P.-O. Lagage, M.E. Meixner, H.-U. Nørgaard-Nielsen, T.P. Ray, M.E. Ressler, E.F. van Dishoeck and C. Waelkens: The Mid-Infrared Instrument for the James Webb Space Telescope, I: Introduction. *Publ. Astron. Soc. Pac.* 127, 584-594 (2015).
- Rigby, E.E., J. Argyle, P.N. Best, D. Rosario and H.J.A. Röttgering: Cosmic downsizing of powerful radio galaxies to low radio luminosities. *Astron. Astrophys.* 581, A96 (2015).
- Rigby, J.R., M.B. Bayliss, M.D. Gladders, K. Sharon, E. Wuyts, H. Dahle, T. Johnson and M. Peña-Guerrero: C III] Emission in Star-forming Galaxies Near and Far. *Ap. J. Lett.* 814, L6 (2015).
- Riguccini, L., E. Le Floch, J.R. Mullaney, K. Menéndez-Delmestre, H. Aussel, S. Berta, J. Calanog, P. Capak, A. Cooray, O. Ilbert, J. Kartaltepe, A. Koekemoer, D. Lutz, B. Magnelli, H. McCracken, S. Oliver, I. Roseboom, M. Salvato, D. Sanders, N. Scoville, Y. Taniguchi and E. Treister: The composite nature of Dust-Obscured Galaxies (DOGs) at  $z \sim 2-3$  in the COSMOS field - I. A far-infrared view. *Mon. Not. R. Astron. Soc.* 452, 470-485 (2015).
- Roccatagliata, V., J.E. Dale, T. Ratzka, L. Testi, A. Burkert, C. Koepferl, A. Sicilia-Aguilar, C. Eiroa and B. Gaczkowski: A network of filaments detected by Herschel in the Serpens core. A laboratory to test simulations of low-mass star formation. *Astron. Astrophys.* 584, A119 (2015).
- Rodighiero, G., M. Brusa, E. Daddi, M. Negrello, J.R. Mullaney, I. Delvecchio, D. Lutz, A. Renzini, A. Franceschini, I. Baronchelli, F. Pozzi, C. Gruppioni, V. Strazzullo, A. Cimatti and J. Silverman: Relationship between Star Formation Rate and Black Hole Accretion At  $Z = 2$ : the Different Contributions in Quiescent, Normal, and Starburst Galaxies. *Ap. J. Lett.* 800, L10 (2015).
- Rodriguez, J., M. Cadolle Bel, J. Alfonso-Garzón, T. Siebert, X.-L. Zhang, V. Grinberg, V. Savchenko, J.A. Tomshick, J. Chenevez, M. Clavel, S. Corbel, R. Diehl, A. Domingo, C. Gouiffès, J. Greiner, M.G.H. Krause, P. Laurent, A. Loh, S. Markoff, J.M. Mas-Hesse, J.C.A. Miller-Jones, D.M. Russell and J. Wilms: Correlated optical, X-ray, and  $\gamma$ -ray flaring activity seen with INTEGRAL during the 2015 outburst of V404 Cygni. *Astron. Astrophys.* 581, L9 (2015).
- Rosario, D.J., D.H. McIntosh, A. van der Wel, J. Kartaltepe, P. Lang, P. Santini, S. Wuyts, D. Lutz, M. Rafelski, C. Villforth, D.M. Alexander, F.E. Bauer, E.F. Bell, S. Berta, W.N. Brandt, C.J. Conselice, A. Dekel, S.M. Faber, H.C. Ferguson, R. Genzel, N.A. Grogin, D.D. Kocevski, A.M. Koekemoer, D.C. Koo, J.M. Lotz, B. Magnelli, R. Maiolino, M. Mozena, J.R. Mullaney, C.J. Papovich, P. Popesso, L.J. Tacconi, J.R. Trump, S. Avadhuta, R. Bassett, A. Bell, M. Bernyk, F. Bournaud, P. Cassata, E. Cheung, D. Croton, J. Donley, L. De Groot, J. Guedes, N. Hathi, J. Herrington, M. Hilton, K. Lai, C. Lani, M. Martig, E. McGrath, S. Mutch, A. Mortlock, C. McPartland, E. O'Leary, M. Peth, A. Pillepich, G. Poole, D. Snyder, A. Straughn, O. Telford, C. Tonini and P. Wandro: The host galaxies of X-ray selected active galactic nuclei to  $z = 2.5$ : Structure, star formation, and their relationships from CANDELS and Herschel/PACS. *Astron. Astrophys.* 573, A85 (2015).
- Rubin, M., K. Altwegg, E.F. van Dishoeck and G. Schwehm: Molecular Oxygen in Oort Cloud Comet 1P/Halley. *Ap. J. Lett.* 815, L11 (2015).
- Ryan, G., H. van Eerten, A. MacFadyen and B.-B. Zhang: Gamma-Ray Bursts are Observed Off-axis. *Ap. J.* 799, 3 (2015).
- Rémy-Ruyer, A., S.C. Madden, F. Galliano, V. Lebouteiller, M. Baes, G.J. Bendo, A. Boselli, L. Ciesla, D. Cormier, A. Cooray, L. Cortese, I. De Looze, V. Doublier-Pritchard, M. Galametz, A.P. Jones, O.Ł. Karczewski, N. Lu and L. Spinoglio: Linking dust emission to fundamental properties in galaxies: the low-metallicity picture. *Astron. Astrophys.* 582, A121 (2015).
- Saliwanchik, B.R., T.E. Montroy, K.A. Aird, ..., J.J. Mohr, et al.: Measurement of Galaxy Cluster Integrated Comptonization and Mass Scaling Relations with the South Pole Telescope. *Ap. J.* 799, 137 (2015).
- Salvetti, D., R.P. Mignani, A. De Luca, C. Delvaux, C. Pallanca, A. Belfiore, M. Marelli, A.A. Breeveld, J. Greiner, W. Becker and D. Pizzocaro: Multi-wavelength Observations of 3FGL J2039.6-5618: A Candidate Redback Millisecond Pulsar. *Ap. J.* 814, 88 (2015).
- Santangelo, G., N.M. Murillo, B. Nisini, C. Codella, S. Bruderer, S.-P. Lai and E.F. van Dishoeck: Disentangling the jet emission from protostellar systems. The ALMA view of VLA1623. *Astron. Astrophys.* 581, A91 (2015).
- Santini, P., H.C. Ferguson, A. Fontana, B. Mobasher, G. Barro, M. Castellano, S.L. Finkelstein, A. Grazian, L.T. Hsu, B. Lee, S.-K. Lee, J. Pforr, M. Salvato, T. Wiklind, S. Wuyts, O. Almaini, M.C. Cooper, A. Galametz, B. Weiner, R. Amorin, K. Boutsia, C.J. Conselice, T. Dahlen, M.E. Dickinson, M. Giavalisco, N.A. Grogin, Y. Guo, N.P. Hathi, D. Kocevski, A.M. Koekemoer, P. Kurczynski, E. Merlin, A. Mortlock, J.A. Newman, D. Paris, L. Pentericci, R. Simons and S.P. Willner: Stellar Masses from the CANDELS Survey: The GOODS-South and UDS Fields. *Ap. J.* 801, 97 (2015).
- Santos, J.S., B. Altieri, I. Valtchanov, A. Nastasi, H. Böhringer, G. Cresci, D. Elbaz, R. Fassbender, P. Rosati, P. Tozzi and M. Verdugo: The reversal of the SF-density relation in a massive, X-ray-selected galaxy cluster at  $z = 1.58$ : results from Herschel. *Mon. Not. R. Astron. Soc.* 447, L65-L69 (2015).

- Saro, A., S. Bocquet, E. Rozo, B.A. Benson, J. Mohr, ..., J. Weller, ..., D. Gruen, et al: Constraints on the richness-mass relation and the optical-SZE positional offset distribution for SZE-selected clusters. *Mon. Not. R. Astron. Soc.* 454, 2305-2319 (2015).
- Scaringi, S., T.J. Maccarone, R.I. Hynes, E. Körding, G. Ponti, C. Knigge, C.T. Britt and H. van Winckel: Sco X-1 revisited with Kepler, MAXI and HERMES: outflows, time-lags and echoes unveiled. *Mon. Not. R. Astron. Soc.* 451, 3857-3867 (2015).
- Schady, P., T. Krühler, J. Greiner, J.F. Graham, D.A. Kann, J. Bolmer, C. Delvaux, J. Elliott, S. Klose, F. Knust, A. Nicuesa Guelbenzu, A. Rau, A. Rossi, S. Savaglio, S. Schmidl, T. Schweyer, V. Sudilovsky, M. Tanga, N.R. Tanvir, K. Varela and P. Wiseman: Super-solar metallicity at the position of the ultra-long GRB 130925A. *Astron. Astrophys.* 579, A126 (2015).
- Schartmann, M., A. Ballone, A. Burkert, S. Gillessen, R. Genzel, O. Pfuhl, F. Eisenhauer, P.M. Plewa, T. Ott, E.M. George and M. Habibi: 3D Adaptive Mesh Refinement Simulations of the Gas Cloud G2 Born within the Disks of Young Stars in the Galactic Center. *Ap. J.* 811, 155 (2015).
- Schulze, A., A. Bongiorno, I. Gavignaud, M. Schramm, J. Silverman, A. Merloni, G. Zamorani, M. Hirschmann, V. Mainieri, L. Wisotzki, F. Shankar, F. Fiore, A.M. Koekemoer and G. Tempurin: The cosmic growth of the active black hole population at  $1 < z < 2$  in zCOSMOS, VVDS and SDSS. *Mon. Not. R. Astron. Soc.* 447, 2085-2111 (2015).
- Scudder, J. M., S.L. Ellison, E. Momjian, J.L. Rosenberg, P. Torrey, D.R. Patton, D. Fertig and J.T. Mendel: Galaxy pairs in the Sloan Digital Sky Survey – X. Does gas content alter star formation rate enhancement in galaxy interactions? *Mon. Not. R. Astro. Soc.* 449(4), 3719-3740 (2015).
- Scoville, N., K. Sheth, F. Walter, S. Manohar, L. Zschaechner, M. Yun, J. Koda, D. Sanders, L. Murchikova, T. Thompson, B. Robertson, R. Genzel, L. Hernquist, L. Tacconi, R. Brown, D. Narayanan, C.C. Hayward, J. Barnes, J. Kartaltepe, R. Davies, P. van der Werf and E. Fomalont: ALMA Imaging of HCN, CS, and Dust in Arp 220 and NGC 6240. *Ap. J.* 800, 70 (2015).
- Seitzzahl, I.R., A. Summa, F. Krauß, S.A. Sim, R. Diehl, D. Elsässer, M. Fink, W. Hillebrandt, M. Kromer, K. Maeda, K. Mannheim, R. Pakmor, F.K. Röpkke, A.J. Ruiter and J. Wilms: 5.9-keV Mn K-shell X-ray luminosity from the decay of  $^{55}\text{Fe}$  in Type Ia supernova models. *Mon. Not. R. Astron. Soc.* 447, 1484-1490 (2015).
- Shafter, A.W., M. Henze, T.A. Rector, F. Schweizer, K. Hornoch, M. Orío, W. Pietsch, M.J. Darnley, S.C. Williams, M.F. Bode and J. Bryan: Recurrent Novae in M31. *Ap. J. Supp. Ser.* 216, 34 (2015).
- Sharon, C.E., A.J. Baker, A.I. Harris, L.J. Tacconi, D. Lutz and S.N. Longmore: Excitation Conditions in the Multi-component Submillimeter Galaxy SMM J00266+1708. *Ap. J.* 798, 133 (2015).
- Shen, Y., J.E. Greene, L.C. Ho, W.N. Brandt, K.D. Denney, K. Horne, L. Jiang, C.S. Kochanek, I.D. McGreer, A. Merloni, B.M. Peterson, P. Petitjean, D.P. Schneider, A. Schulze, M.A. Strauss, C. Tao, J.R. Trump, K. Pan and D. Bizyaev: The Sloan Digital Sky Survey Reverberation Mapping Project: No Evidence for Evolution in the  $M_{\bullet} - \sigma$  Relation to  $z \sim 1$ . *Ap. J.* 805, 96 (2015).
- Shimakawa, R., T. Kodama, C.C. Steidel, K.-i. Tadaki, I. Tanaka, A.L. Strom, M. Hayashi, Y. Koyama, T.L. Suzuki and M. Yamamoto: Correlation between star formation activity and electron density of ionized gas at  $z = 2.5$ . *Mon. Not. R. Astron. Soc.* 451, 1284-1289 (2015).
- Shimakawa, R., T. Kodama, K.-i. Tadaki, M. Hayashi, Y. Koyama and I. Tanaka: An early phase of environmental effects on galaxy properties unveiled by near-infrared spectroscopy of protocluster galaxies at  $z > 2$ . *Mon. Not. R. Astron. Soc.* 448, 666-680 (2015).
- Shimizu, T.T., R.F. Mushotzky, M. Meléndez, M. Koss and D.J. Rosario: Decreased specific star formation rates in AGN host galaxies. *Mon. Not. R. Astron. Soc.* 452, 1841-1860 (2015).
- Siegert, T., R. Diehl, M.G.H. Krause and J. Greiner: Revisiting INTEGRAL/SPI observations of  $^{44}\text{Ti}$  from Cassiopeia A. *Astron. Astrophys.* 579, A124 (2015).
- Silverman, J.D., E. Daddi, G. Rodighiero, W. Rujopakarn, M. Sargent, A. Renzini, D. Liu, C. Feruglio, D. Kashino, D. Sanders, J. Kartaltepe, T. Nagao, N. Arimoto, S. Berta, M. Béthermin, A. Koekemoer, D. Lutz, G. Magdis, C. Mancini, M. Onodera and G. Zamorani: A Higher Efficiency of Converting Gas to Stars Pushes Galaxies at  $z \sim 1.6$  Well Above the Star-forming Main Sequence. *Ap. J. Lett.* 812, L23 (2015).
- Simm, T., R. Saglia, M. Salvato, R. Bender, W.S. Burgett, K.C. Chambers, P.W. Draper, H. Flewelling, N. Kaiser, R.-P. Kudritzki, E.A. Magnier, N. Metcalfe, J.L. Tonry, R.J. Wainscoat and C. Waters: Pan-STARRS1 variability of XMM-COSMOS AGN. I. Impact on photometric redshifts. *Astron. Astrophys.* 584, A106 (2015).
- Singer, L.P., M.M. Kasliwal, S.B. Cenko, D.A. Perley, G.E. Anderson, G.C. Anupama, I. Arcavi, V. Bhlerao, B.D. Bue, Y. Cao, V. Connaughton, A. Corsi, A. Cucchiara, R.P. Fender, D.B. Fox, N. Gehrels, A. Goldstein, J. Gorosabel, A. Horeh, K. Hurley, J. Johansson, D.A. Kann, C. Kouveliotou, K. Huang, S.R. Kulkarni, F. Masci, P. Nugent, A. Rau, U.D. Rebbapragada, T.D. Staley, D. Svinikin, C.C. Thöne, A. de Ugarte Postigo, Y. Urata and A. Weinstein: The Needle in the 100 deg<sup>2</sup> Haystack: Uncovering Afterglows of Fermi GRBs with the Palomar Transient Factory. *Ap. J.* 806, 52 (2015).
- Sipilä, O., J. Harju and M. Juvela: On the stability of nonisothermal Bonnor-Ebert spheres. II. The effect of gas temperature on the stability. *Astron. Astrophys.* 582, A48 (2015).
- Sipilä, O., J. Harju, P. Caselli and S. Schlemmer: Spin-state chemistry of deuterated ammonia. *Astron. Astrophys.* 581, A122 (2015).
- Sipilä, O., P. Caselli and J. Harju: Benchmarking spin-state chemistry in starless core models. *Astron. Astrophys.* 578, A55 (2015).
- Sitnova, T., G. Zhao, L. Mashonkina, Y. Chen, F. Liu, Y. Pakhomov, K. Tan, M. Bolte, S. Alexeeva, F. Grupp, J.-R.



- Shi and H.-W. Zhang: Systematic Non-LTE Study of the  $-2.6 < [\text{Fe}/\text{H}] < 0.2$  F and G dwarfs in the Solar Neighborhood. I. Stellar Atmosphere Parameters. *Ap. J.* 808, 148 (2015).
- Smolčić, V., A. Karim, O. Miettinen, M. Novak, B. Magnelli, D.A. Riechers, E. Schinnerer, P. Capak, M. Bondi, P. Ciliegi, M. Aravena, F. Bertoldi, S. Bourke, J. Banfield, C.L. Carilli, F. Civano, O. Ilbert, H.T. Intema, O. Le Fèvre, A. Finoguenov, G. Hallinan, H.-R. Klöckner, A. Koekemoer, C. Laigle, D. Masters, H.J. McCracken, K. Mooley, E. Murphy, F. Navarette, M. Salvato, M. Sargent, K. Sheth, S. Toft and G. Zamorani: Physical properties of  $z > 4$  submillimeter galaxies in the COSMOS field. *Astron. Astrophys.* 576, A127 (2015).
- Soergel, B., T. Giannantonio, J. Weller and R.A. Battye: Constraining dark sector perturbations II: ISW and CMB lensing tomography. *J. of Cosmology and Astroparticle Phys.* 2, 037 (2015).
- Song, L., N. Balakrishnan, K.M. Walker, P.C. Stancil, W.F. Thi, I. Kamp, A. van der Avoird and G.C. Groenenboom: Quantum Calculation of Inelastic CO Collisions with H. III. Rate Coefficients for Ro-vibrational Transitions. *Ap. J.* 813, 96 (2015).
- Steinacker, J., M. Andersen, W.-F. Thi, R. Paladini, M. Juvela, A. Bacmann, V.-M. Pelkonen, L. Pagani, C. Le Fèvre, T. Henning and A. Noriega-Crespo: Grain size limits derived from 3.6  $\mu\text{m}$  and 4.5  $\mu\text{m}$  coreshine. *Astron. Astrophys.* 582, A70 (2015).
- Stolte, A., A. Stolte, B. Hußmann, M. R. Morris, A. M. Ghez, W. Brandner, J. R. Lu, W. I. Clarkson, M. Habibi, K. Matthews: The Orbital Motion of the Quintuplet Cluster - A Common Origin for the Arches and Quintuplet Clusters?. *Ap. J.* 789 (2015).
- Stolte, A., B. Hußmann, C. Olczak, W. Brandner, M. Habibi, A. M. Ghez, M. R. Morris, J. R. Lu, W. I. Clarkson, J. Anderson, J.: Circumstellar discs in Galactic centre clusters: Disc-bearing B-type stars in the Quintuplet and Arches clusters. *Astron. Astrophys.* 578 (2015).
- Sun, M., J. R. Trump, W. N. Brandt, B. Luo, D. M. Alexander, K. Janhke, D. J. Rosario, S. X. Wang and Y. Q. Xue: Evolution in the Black Hole - Galaxy Scaling Relations and the Duty Cycle of Nuclear Activity in Star-forming Galaxies. *Ap. J.* 802, 14, (2015).
- Suzuki, T.L., T. Kodama, K.-i. Tadaki, M. Hayashi, Y. Koyama, I. Tanaka, Y. Minowa, R. Shimakawa and M. Yamamoto: Galaxy Formation at  $z > 3$  Revealed by Narrowband-selected [O III] Emission Line Galaxies. *Ap. J.* 806, 208 (2015).
- Tacchella, S., C.M. Carollo, A. Renzini, N.M.F. Schreiber, P. Lang, S. Wuyts, G. Cresci, A. Dekel, R. Genzel, S.J. Lilly, C. Mancini, S. Newman, M. Onodera, A. Shapley, L. Tacconi, J. Woo and G. Zamorani: Evidence for mature bulges and an inside-out quenching phase 3 billion years after the Big Bang. *Science* 348, 314-317 (2015).
- Tacchella, S., P. Lang, C.M. Carollo, N.M. Förster Schreiber, A. Renzini, A.E. Shapley, S. Wuyts, G. Cresci, R. Genzel, S.J. Lilly, C. Mancini, S.F. Newman, L.J. Tacconi, G. Zamorani, R.I. Davies, J. Kurk and L. Pozzetti: SINS/zC-SINF Survey of  $z \sim 2$  Galaxy Kinematics: Rest-frame Morphology, Structure, and Colors from Near-infrared Hubble Space Telescope Imaging. *Ap. J.* 802, 101 (2015).
- Tadaki, K.-i., K. Kohno, T. Kodama, S. Ikarashi, I. Aretxaga, S. Berta, K.I. Caputi, J.S. Dunlop, B. Hatsukade, M. Hayashi, D.H. Hughes, R. Ivison, T. Izumi, Y. Koyama, D. Lutz, R. Makiya, Y. Matsuda, K. Nakanishi, W. Rujopakarn, Y. Tamura, H. Umehata, W.-H. Wang, G.W. Wilson, S. Wuyts, Y. Yamaguchi and M.S. Yun: SXDF-ALMA 1.5 arcmin<sup>2</sup> Deep Survey: A Compact Dusty Star-forming Galaxy at  $z = 2.5$ . *Ap. J. Lett.* 811, L3 (2015).
- Talia, M., A. Cimatti, L. Pozzetti, G. Rodighiero, C. Grupponi, F. Pozzi, E. Daddi, C. Maraston, M. Mignoli and J. Kurk: The star formation rate cookbook at  $1 < z < 3$ : Extinction-corrected relations for UV and [OII] $\lambda$ 3727 luminosities. *Astron. Astrophys.* 582, A80 (2015).
- Taniguchi, Y., K. Masaru, K. Masakazu, ..., M. Salvato, et al.: The Subaru COSMOS 20: Subaru optical imaging of the HST COSMOS field with 20 filters\*. *Publ. Astron. Soc. Japan*, 67, Issue 6, id. 10414 (2015).
- Tasca, L.A.M., O. Le Fèvre, N.P. Hathi, ..., M. Salvato, et al.: The evolving star formation rate: M, relation and sSFR since  $z \approx 5$  from the VUDS spectroscopic survey. *Astron. Astrophys.* 581, A54 (2015).
- Teklu, A.F., R.-S. Remus, K. Dolag, A.M. Beck, A. Burkert, A.S. Schmidt, F. Schulze and L.K. Steinborn: Connecting Angular Momentum and Galactic Dynamics: The Complex Interplay between Spin, Mass, and Morphology. *Ap. J.* 812, 29 (2015).
- Tibaldo, L., S.W. Digel, J.M. Casandjian, A. Franckowiak, I.A. Grenier, G. Jóhannesson, D.J. Marshall, I.V. Moskalenko, M. Negro, E. Orlando, T.A. Porter, O. Reimer and A.W. Strong: Fermi-LAT Observations of High- and Intermediate-velocity Clouds: Tracing Cosmic Rays in the Halo of the Milky Way. *Ap. J.* 807, 161 (2015).
- Tozzi, P., J.S. Santos, M.J. Jee, R. Fassbender, P. Rosati, A. Nastasi, W. Forman, B. Sartoris, S. Borgani, H. Boehringer, B. Altieri, G.W. Pratt, M. Nonino and C. Jones: Chandra Deep Observation of XDCP J0044.0-2033, a Massive Galaxy Cluster at  $z > 1.5$ . *Ap. J.* 799, 93 (2015).
- Traficante, A., G.A. Fuller, N. Peretto, J.E. Pineda and S. Molinari: The initial conditions of stellar protocluster formation – II. A catalogue of starless and protostellar clumps embedded in IRDCs in the Galactic longitude range  $15^\circ \leq l \leq 55^\circ$ . *Mon. Not. R. Astro. Soc.* 451(3), 3089-3106 (2015).
- Trakhtenbrot, B., C.M. Urry, F. Civano, D.J. Rosario, M. Elvis, K. Schawinski, H. Suh, A. Bongiorno and B.D. Simons: An over-massive black hole in a typical star-forming galaxy, 2 billion years after the Big Bang. *Science* 349, 168-171 (2015).
- Tremblay, G.R., C.P. O'Dea, S.A. Baum, R. Mittal, M.A. McDonald, F. Combes, Y. Li, B.R. McNamara, M.N. Bremer, T.E. Clarke, M. Donahue, A.C. Edge, A.C. Fabian, S.L. Hamer, M.T. Hogan, J.B.R. Oonk, A.C. Quillen, J.S. Sanders, P. Salomé and G.M. Voit: Far-ultraviolet morphology of star-forming filaments in cool core brightest cluster galaxies. *Mon. Not. R. Astron. Soc.* 451, 3768-3800 (2015).

- Trump, J.R., M. Sun, G.R. Zeimann, C. Luck, J.S. Bridge, C.J. Grier, A. Hagen, S. Juneau, A. Montero-Dorta, D.J. Rosario, W.N. Brandt, R. Ciardullo and D.P. Schneider: The Biases of Optical Line-Ratio Selection for Active Galactic Nuclei and the Intrinsic Relationship between Black Hole Accretion and Galaxy Star Formation. *Ap. J.* 811, 26 (2015).
- Tunnard, R., T.R. Greve, S. Garcia-Burillo, J. Graciá Carpio, A. Fuente, L. Tacconi, R. Neri and A. Usero: Modeling the Molecular Gas in NGC 6240. *Ap. J.* 815, 114 (2015).
- Tunnard, R., T.R. Greve, S. Garcia-Burillo, J. Graciá Carpio, J. Fischer, A. Fuente, E. González-Alfonso, S. Hailey-Dunsheath, R. Neri, E. Sturm, A. Usero and P. Planesas: Chemically Distinct Nuclei and Outflowing Shocked Molecular Gas in Arp 220. *Ap. J.* 800, 25 (2015).
- Ursini, F., R. Boissay, P.-O. Petrucci, G. Matt, M. Cappi, S. Bianchi, J. Kaastra, F. Harrison, D.J. Walton, L. di Gesu, E. Costantini, B. De Marco, G.A. Kriss, M. Mehdipour, S. Paltani, B.M. Peterson, G. Ponti and K.C. Steenbrugge: Anatomy of the AGN in NGC 5548. III. The high-energy view with NuSTAR and INTEGRAL. *Astron. Astrophys.* 577, A38 (2015).
- Usero, A., A.K. Leroy, F. Walter, A. Schrubba, S. García-Burillo, K. Sandstrom, F. Bigiel, E. Brinks, C. Kramer, E. Rosolowsky, K.-F. Schuster and W.J.G. de Blok: Variations in the Star Formation Efficiency of the Dense Molecular Gas across the Disks of Star-forming Galaxies. *Astron. J.* 150, 115 (2015).
- van Dokkum, P. G., E. J. Nelson, M. Franx, P. Oesch, I. Momcheva, G. Brammer, N. M. Förster Schreiber, R. E. Skelton, K. E. Whitaker, A. van der Wel, R. Bezanson, M. Fumagalli, G. D. Ellingworth, M. Kriek, J. Leja and S. Wuyts: Forming compact massive galaxies. *Ap. J.* 813, 23, (2015).
- van der Marel, N., E.F. van Dishoeck, S. Bruderer, L. Pérez and A. Isella: Gas density drops inside dust cavities of transitional disks around young stars observed with ALMA. *Astron. Astrophys.* 579, A106 (2015).
- van de Sande, M., S. Scaringi and C. Knigge: The rms-flux relation in accreting white dwarfs: another nova-like variable and the first dwarf nova. *Mon. Not. R. Astron. Soc.* 448, 2430-2437 (2015).
- Venemans, B.P., E. Bañados, R. Decarli, E.P. Farina, F. Walter, K.C. Chambers, X. Fan, H.-W. Rix, E. Schlafly, R.G. McMahon, R. Simcoe, D. Stern, W.S. Burgett, P.W. Draper, H. Flewelling, K.W. Hodapp, N. Kaiser, E.A. Magnier, N. Metcalfe, J.S. Morgan, P.A. Price, J.L. Tonry, C. Waters, Y. Al Sayyad, M. Banerji, S.S. Chen, E.A. González-Solares, J. Greiner, C. Mazzucchelli, I. McGreer, D.R. Miller, S. Reed and P.W. Sullivan: The Identification of Z-dropouts in Pan-STARRS1: Three Quasars at  $6.5 < z < 6.7$ . *Ap. J. Lett.* 801, L11 (2015).
- Vergani, S.D., R. Salvaterra, J. Japelj, E. LeFloc'h, P. D'Avanzo, A. Fernandez-Soto, T. Krühler, A. Melandri, S. Boissier, S. Covino, M. Puech, J. Greiner, L.K. Hunt, D. Perley, P. Petitjean, T. Vinci, F. Hammer, A. Levan, F. Mannucci, S. Campana, H. Flores, A. Gomboc and G. Tagliiferri: Are long gamma-ray bursts biased tracers of star formation? Clues from the host galaxies of the Swift/BAT6 complete sample of LGRBs . I. Stellar mass at  $z < 1$ . *Astron. Astrophys.* 581, A102 (2015).
- Vignali, C., K. Iwasawa, A. Comastri, R. Gilli, G. Lanzuisi, P. Ranalli, N. Cappelluti, V. Mainieri, I. Georgantopoulos, F.J. Carrera, J. Fritz, M. Brusa, W.N. Brandt, F.E. Bauer, F. Fiore and F. Tombesi: The XMM deep survey in the CDF-S. IX. An X-ray outflow in a luminous obscured quasar at  $z \approx 1.6$ . *Astron. Astrophys.* 583, A141 (2015).
- Vikram, V., C. Chang, B. Jain, ..., D. Gruen, ..., and J. Weller: Wide-field lensing mass maps from Dark Energy Survey science verification data: Methodology and detailed analysis. *Physical Review D* 92, 022006 (2015).
- Vokrouhlický, D., D. Farnocchia, D. Čapek, S.R. Chesley, P. Pravec, P. Scheirich and T.G. Müller: The Yarkovsky effect for 99942 Apophis. *Icarus* 252, 277-283 (2015).
- Walker, S.A., J.S. Sanders and A.C. Fabian: Constraining gas motions in the Centaurus cluster using X-ray surface brightness fluctuations and metal diffusion. *Mon. Not. R. Astron. Soc.* 453, 3699-3705 (2015).
- Walker, S.A., P. Kosec, A.C. Fabian and J.S. Sanders: X-ray analysis of filaments in galaxy clusters. *Mon. Not. R. Astron. Soc.* 453, 2480-2489 (2015).
- Walsh, C., H. Nomura and E. van Dishoeck: The molecular composition of the planet-forming regions of protoplanetary disks across the luminosity regime. *Astron. Astrophys.* 582, A88 (2015).
- Wegg, C., O. Gerhard and M. Portail: The structure of the Milky Way's bar outside the bulge. *Mon. Not. R. Astron. Soc.* 450, 4050-4069 (2015).
- Wells, M., J.-W. Pel, A. Glasse, G.S. Wright, G. Aitink-Kroes, R. Azzollini, S. Beard, B.R. Brandl, A. Gallie, V.C. Geers, A.M. Glauser, P. Hastings, T. Henning, R. Jager, K. Justtanont, B. Kruizinga, F. Lahuis, D. Lee, I. Martínez-Delgado, J.R. Martínez-Galarza, M. Meijers, J.E. Morrison, F. Müller, T. Nakos, B. O'Sullivan, A. Oudenhuisen, P. Parr-Burman, E. Pauwels, R.-R. Rohloff, E. Schmalzl, J. Sykes, M.P. Thelen, E.F. van Dishoeck, B. Van denbussche, L.B. Venema, H. Visser, L.B.F.M. Waters and D. Wright: The Mid-Infrared Instrument for the James Webb Space Telescope, VI: The Medium Resolution Spectrometer. *Publ. Astron. Soc. Pac.* 127, 646-664 (2015).
- Werner, M., R. Kissmann, A.W. Strong and O. Reimer: Spiral arms as cosmic ray source distributions. *Astroparticle Phys.* 64, 18-33 (2015).
- Whewell, M., G. Branduardi-Raymont, J.S. Kaastra, M. Mehdipour, K.C. Steenbrugge, S. Bianchi, E. Behar, J. Ebrero, M. Cappi, E. Costantini, B. De Marco, L. Di Gesu, G.A. Kriss, S. Paltani, B.M. Peterson, P.-O. Petrucci, C. Pinto and G. Ponti: Anatomy of the AGN in NGC 5548. V. A clear view of the X-ray narrow emission lines. *Astron. Astrophys.* 581, A79 (2015).
- Whitaker, K. E., M. Franx, R. Bezanson, G. B. Brammer, P. G. van Dokkum, M. T. Kriek, I. Labbe, J. Leja, I. G. Momcheva, E. J. Nelson, J. R. Rigby, H.-W. Rix, R. E. Skelton, A. van der Wel and S. Wuyts: Galaxy structure as a driver of the star formation sequence slope and scatter. *Ap. J.* 811, 12, (2015).

- White, J.A., R.E.A. Canning, L.J. King, B.E. Lee, H.R. Russell, S.A. Baum, D.I. Clowe, J.E. Coleman, M. Donahue, A.C. Edge, A.C. Fabian, R.M. Johnstone, B.R. McNamara, C.P. O'Dea and J.S. Sanders: Dynamical analysis of galaxy cluster merger Abell 2146. *Mon. Not. R. Astron. Soc.* 453, 2718-2730 (2015).
- Wiegert, T., J. Irwin, A. Miskolczi, P. Schmidt, S.C. Mora, A. Damas-Segovia, Y. Stein, J. English, R.J. Rand, I. Santistevan, R. Walterbos, M. Krause, R. Beck, R.-J. Dettmar, A. Kepley, M. Wezgowiec, Q.D. Wang, G. Heald, J. Li, S. MacGregor, M. Johnson, A.W. Strong, A. De Souza and T.A. Porter: CHANG-ES. IV. Radio Continuum Emission of 35 Edge-on Galaxies Observed with the Karl G. Jansky Very Large Array in D Configuration - Data Release 1. *Astron. J.* 150, 81 (2015).
- Williams, B.F., B. Wold, F. Haberl, K. Garofali, W.P. Blair, T.J. Gaetz, K.D. Kuntz, K.S. Long, T.G. Pannuti, W. Pietsch, P.P. Plucinsky and P.F. Winkler: A Deep XMM-Newton Survey of M33: Point-source Catalog, Source Detection, and Characterization of Overlapping Fields. *Ap. J. Supp. Ser.* 218, 9 (2015).
- Wisnioski, E., N.M. Förster Schreiber, S. Wuyts, E. Wuyts, K. Bandara, D. Wilman, R. Genzel, R. Bender, R. Davies, M. Fossati, P. Lang, J.T. Mendel, A. Beifiori, G. Brammer, J. Chan, M. Fabricius, Y. Fudamoto, S. Kulkarni, J. Kurk, D. Lutz, E.J. Nelson, I. Momcheva, D. Rosario, R. Saglia, S. Seitz, L.J. Tacconi and P.G. van Dokkum: The KMOS<sup>3D</sup> Survey: Design, First Results, and the Evolution of Galaxy Kinematics from  $0.7 \leq z \leq 2.7$ . *Ap. J.* 799, 209 (2015).
- Wright, C.M., S.T. Maddison, D.J. Wilner, M.G. Burton, D. Lommen, E.F. van Dishoeck, P. Pinilla, T.L. Bourke, F. Menard and C. Walsh: Resolving structure of the disc around HD100546 at 7 mm with ATCA. *Mon. Not. R. Astron. Soc.* 453, 414-438 (2015).
- Wright, G.S., D. Wright, G.B. Goodson, ..., E.F. van Dishoeck, et al.: The Mid-Infrared Instrument for the James Webb Space Telescope, II: Design and Build. *Publ. Astron. Soc. Pac.* 127, 595-611 (2015).
- Wu, B., S. Van Loo, J.C. Tan and S. Bruderer: GMC Collisions as Triggers of Star Formation. I. Parameter Space Exploration with 2D Simulations. *Ap. J.* 811, 56 (2015).
- Wu, X., L. Wang, J. Shi, G. Zhao and F. Grupp: Palladium and silver abundances in stars with  $[Fe/H] > -2.6$ . *Astron. Astrophys.* 579, A8 (2015).
- Wu, X.S., S. Alexeeva, L. Mashonkina, L. Wang, G. Zhao and F. Grupp: Calibrating the  $\alpha$  parameter of convective efficiency using observed stellar properties. *Astron. Astrophys.* 577, A134 (2015).
- Yıldız, U.A., L.E. Kristensen, E.F. van Dishoeck, M.R. Hogerheijde, A. Karska, A. Belloche, A. Endo, W. Frieswijk, R. Güsten, T.A. van Kempen, S. Leurini, Z. Nagy, J.P. Pérez-Beaupuits, C. Risacher, N. van der Marel, R.J. van Weeren and F. Wyrowski: APEX-CHAMP<sup>+</sup> high-J CO observations of low-mass young stellar objects. IV. Mechanical and radiative feedback. *Astron. Astrophys.* 576, A109 (2015).
- Yazdi, A., M. Heinen, A. Ivlev, H. Löwen and M. Sperl: Glass transition of charged particles in two-dimensional confinement. *Physical Review E* 91, 052301 (2015).
- Yu, H.-F., H.J. van Eerten, J. Greiner, R. Sari, P. Narayana Bhat, A. von Kienlin, W.S. Paciasas and R.D. Preece: The sharpness of gamma-ray burst prompt emission spectra. *Astron. Astrophys.* 583, A129 (2015).
- Yu, H.-F., J. Greiner, H. van Eerten, J.M. Burgess, P. Narayana Bhat, M.S. Briggs, V. Connaughton, R. Diehl, A. Goldstein, D. Gruber, P.A. Jenke, A. von Kienlin, C. Kouveliotou, W.S. Paciasas, V. Pelassa, R.D. Preece, O.J. Roberts and B.-B. Zhang: Synchrotron cooling in energetic gamma-ray bursts observed by the Fermi Gamma-Ray Burst Monitor. *Astron. Astrophys.* 573, A81 (2015).
- Yurchenko, S.O., N.P. Kryuchkov and A.V. Ivlev: Pair correlations in classical crystals: The shortest-graph method. *Journal of Chemical Physics* 143, 034506 (2015).
- Zezas, A., J.E. Trümper and N.D. Kylafis: Broad-band X-ray spectra of anomalous X-ray pulsars and soft  $\gamma$ -ray repeaters: pulsars in a weak-accretion regime?. *Mon. Not. R. Astron. Soc.* 454, 3366-3375 (2015).
- Zhang, B.-B., H. van Eerten, D.N. Burrows, G.S. Ryan, P.A. Evans, J.L. Racusin, E. Troja and A. MacFadyen: An Analysis of Chandra Deep Follow-up Gamma-Ray Bursts: Implications for Off-axis Jets. *Ap. J.* 806, 15 (2015).
- Zhang, S. and G. Ponti: Hard X-ray Morphological and Spectral Studies of the Galactic Center Molecular Cloud Sgr B2: Constraining Past Sgr A\* Flaring Activity. *Ap. J.* 815 (2015).
- Zhdanov, S., M. Schwabe, C. R ath, H.M. Thomas and G.E. Morfill: Wave turbulence observed in an auto-oscillating complex (dusty) plasma. *EPL (Europhysics Letters)* 110, 35001 (2015).
- Zhdanov, S.K., L. Cou edel, V. Nosenko, H.M. Thomas and G.E. Morfill: Spontaneous pairing and cooperative movements of micro-particles in a two dimensional plasma crystal. *Phys. Plasmas* 22, 053703 (2015).
- Zhukhovitskii, D.I., V.E. Fortov, V.I. Molotkov, A.M. Lipaev, V.N. Naumkin, H.M. Thomas, A.V. Ivlev, M. Schwabe and G.E. Morfill: Measurement of the speed of sound by observation of the Mach cones in a complex plasma under microgravity conditions. *Phys. Plasmas* 22, 023701 (2015).
- Zhuravleva, I., E. Churazov, P. Ar valo, A.A. Schekochihin, S.W. Allen, A.C. Fabian, W.R. Forman, J.S. Sanders, A. Simionescu, R. Sunyaev, A. Vikhlinin and N. Werner: Gas density fluctuations in the Perseus Cluster: clumping factor and velocity power spectrum. *Mon. Not. R. Astron. Soc.* 450(4), 4184-4197 (2015).

## Referierte Proceedings

- Bozzetto, L.M., M.D. Filipovic, F. Haberl, M. Sasaki, P. Kavanagh, P. Maggi, D. Urosevic and R. Sturm: Supernova Remnants in the Magellanic Clouds. *Publication of Korean Astronomical Society* 30, 149-153 (2015).
- Codella, C., L. Podio, F. Fontani, I. Jimenez-Serra, P. Caselli, M.E. Palumbo, A. López-Sepulcre, M.T. Beltrán, B. Le Floch, J.R. Brucato, S. Viti and L. Testi: Complex organic molecules in protostellar environments in the SKA era. In Proc. of "Advancing Astrophysics with the Square Kilometre Array (AASKA14)", Giardini Naxos, Italy, 2014, id. 123, *Proceedings of Science*, publ. electronically (2015).
- Dickinson, C., R. Beck, R. Crocker, R. Crutcher, R. Davies, K. Ferrière, G. Fuller, T. Jaffe,, D. Jones,, P. Leahy,, E. Murphy, M. Peel, E. Orlando, T. Porter, R. Protheroe, A. Strong, T. Robshaw, R. Watson and Yusef-Zadeh: SKA studies of in situ synchrotron radiation from molecular clouds. In: *Advancing Astrophysics with the Square Kilometre Array – AASKA14* (2015).
- Grainge, K., S. Borgani, S. Colafrancesco, C. Ferrari, A. Scaife, P. Marchegiani, S. Emritte and J. Weller: The SKA and Galaxy Cluster Science with the Sunyaev-Zel'dovich Effect. In Proc. of "Advancing Astrophysics with the Square Kilometre Array (AASKA14)", Giardini Naxos, Italy, 2014, id. 170, *Proceedings of Science*, publ. electronically (2015).
- Greiner, J., H.-F. Yu, T. Krühler, D. Frederiks, A. Beloborodov, P. Bhat, J. Bolmer, H. van Eerten, R. Aptekar, J. Elliott, S. Golenetskii, J.F. Graham, K. Hurley, D. Kann, S. Klose, A.N. Guelbenzu, A. Rau, P. Schady, S. Schmidl, V. Sudilovsky, D. Svinkin, M. Tanga, M. Ulanov, K. Varela, A. von Kienlin, and X.-L. Zhang: GROND coverage of the main peak of GRB 130925A. In: *Swift: 10 Years of Discovery - SWIFT 10* (2015).
- Hess, P. O., I. Rodríguez, W. Greiner, T. Boller: Neutron stars with dark energy. *Journal of Physics: Conference Series*, 578: 012008 (2015).
- Hoare, M., L. Perez, T.L. Bourke, L. Testi, I. Jimenez-Serra, P. Zarka, A.P.V. Siemion, H.J. van-Langevelde, L. Loinard, G. Anglada, A. Belloche, P. Bergman, R. Booth, P. Caselli, C.J. Chandler, C. Codella, G. Hallinan, J. Lazio, I.S. Morrison, L. Podio, A. Remijan and J. Tarter: SKA and the Cradle of Life. In Proc. of "Advancing Astrophysics with the Square Kilometre Array (AASKA14)", Giardini Naxos, Italy, 2014, id. 115, *Proceedings of Science*, publ. electronically (2015).
- Knust, F., H.J. van Eerten, J. Greiner, R. Filgas: Fitting GRB afterglow broadband data to hydrodynamical simulations. In: *Swift: 10 Years of Discovery - SWIFT 10* (2015).
- Pritchard, J., K. Ichiki, A. Mesinger, R.B. Metcalf, A. Poursidou, M. Santos, F.B. Abdalla, T.C. Chang, X. Chen, J. Weller and S. Zaroubi: Cosmology from EoR/Cosmic Dawn with the SKA. In Proc. of "Advancing Astrophysics with the Square Kilometre Array (AASKA14)", Giardini Naxos, Italy, 2014, id. 12, *Proceedings of Science*, publ. electronically (2015).
- Schady, P.: Gamma-ray burst afterglows as probes of the ISM. *Journal of High Energy Astrophysics* 7, 56-63 (2015).
- Testi, L., L. Perez, I. Jimenez-Serra, M.G. Hoare, A. Boley, T.L. Bourke, J.R. Brucato, P. Caselli, C.J. Chandler, A. Isella, J. Lazio, M.E. Palumbo, L. Podio, A. Remijan, J. Tarter and D.J. Wilner: Protoplanetary disks and the dawn of planets with SKA. In Proc. of "Advancing Astrophysics with the Square Kilometre Array (AASKA14)", Giardini Naxos, Italy, 2014, id. 117, *Proceedings of Science*, publ. electronically (2015).
- van Eerten, H.J.: Simulation and physical model based gamma-ray burst afterglow analysis. *Journal of High Energy Astrophysics* 7, 23-34 (2015).

## Instrumentelle Publikationen

- Allured, R., B. D. Donovan, C. T. DeRoo, H. R. Marlowe, R. L. McEntaffer, J. H. Tutt, P. N. Cheimets, E. Hertz, R. K. Smith, V. Burwitz, G. Hartner, B. Menz: Optical and x-ray alignment approaches for off-plane reflection gratings. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII.", San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, SPIE, San Diego, California, USA, 960315 (2015).
- Barbera, M., M. Barbera, G. Branduardi-Raymont, A. Colura, A. Comastri, J. Eder, T. Kamisiński, U. Lo Cicero, N. Meidinger, T. Mineo, S. Molendi, G. Parodi, A. Pilch, L. Piro, M. Rataj, G. Rauw, L. Sciortino, S. Sciortino, P. Wawer: The optical blocking filter for the ATHENA Wide Field Imager: ongoing activities towards the conceptual design. In Proc. of "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XIX", San Diego, USA, 2015. (Ed.) O. H. Siegmund. SPIE Proceedings Vol. 9601, SPIE, Washington, 960109-1-960109-13 (2015).
- Basso, S., M. Civitani, G. Pareschi, E. Buratti, J. Eder, P. Friedrich and M. Fürmetz: A design study of mirror modules and an assembly based on the slumped glass for an Athena-like optics. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, 9603N (2015).
- Bavdaz, M., E. Wille, B. Shortt, S. Fransen, M. Collon, G. Vacanti, R. Günther, A. Yanson, M. Vervest, J. Hanevald, C. van Baren, K.-H. Zucknik, F. Christensen, M. Krumrey, V. Burwitz, G. Pareschi, G. Valsecchi: The Athena optics. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII". San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, 96030J (2015).
- Bayliss, M.B., J.R. Rigby, K. Sharon, M.D. Gladders and E. Wuyts: Probing Individual Star Forming Regions Within Strongly Lensed Galaxies at  $z > 1$ . In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 251-254 (2015).
- Civitani, M., S. Basso, C. Brizzolari, M. Ghigo, G. Pareschi, B. Salmaso, D. Spiga, G. Vecchi, E. Breunig, V. Burwitz, G.D. Hartner, B. Menz: Slumped glass optics with interfacing ribs for high angular resolution x-ray astronomy: a progress report. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, 96030P (2015).
- Collon, M. J., G. Vacanti, R. Günther, A. Yanson, N. Barrière, B. Landgraf, M. Vervest, A. Chatbi, M. W. Beijersbergen, M. Bavdaz, E. Wille, J. Haneveld, A. Koelewijn, A. Leenstra, M. Wijnperle, C. van Baren, P. Müller M. Krumrey, V. Burwitz, G. Pareschi, P. Conconi, F.E. Christensen: Silicon pore optics development for ATHENA. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, 96030K (2015).
- Diebold, S., C. Tenzer, E. Perinati, A. Santangelo, M. Freyberg, P. Friedrich and J. Jochum: Soft proton scattering efficiency measurements on x-ray mirror shells. *Experimental Astronomy* 39, 343-365 (2015).
- Döhring, T., M. Stollenwerk, Q. Gong, L. Proserpio, A. Winter and P. Friedrich: The challenge of developing thin mirror shells for future X-ray telescopes. In Proc. of "SPIE 9628, Optical Systems Design 2015: Optical Fabrication, Testing, and Metrology V", Jena, Germany, 2015. (Eds.) A. Duparré, R. Geyl. *Optical Systems Design 2015: Optical Fabrication, Testing, and Metrology V*, Vol. 9628, 962809-1-962809-8 (2015).
- Geis, N., F. Grupp, E. Prieto, and R. Bender: Preliminary results on the EUCLID NISP stray-light and ghost analysis. In H. A. MacEwen, J. B. Breckinridge (Eds.), *UV/Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts VII* (2015).
- Götz, D., C. Adami, S. Basa, V. Beckmann, V. Burwitz, R. Chipaux, B. Cordier, P. Evans, O. Godet, R. Goosmann, N. Meidinger, A. Meuris, C. Motch, K. Nandra, O'Brien, P., J. Osborne, E. Perinati, A. Rau, R. Willingale, K. Mercier, & Gonzalez, F. (2015). The Microchannel X-ray Telescope on Board the SVOM Satellite. In: *Swift: 10 Years of Discovery - SWIFT 10* (2015).
- Gruen, D., G. Bernstein, M. Jarvis, B. Rowe, V. Vikram, A. Plazas and S. Seitz: Characterization and correction of charge-induced pixel shifts in DECam. *Journal of Instrumentation* 10(5): C05032, 1-21 (2015).
- Kellermann, H., F. Grupp, A. Brucalassi, Lang-Bardl, C. Franik, U. Hopp and R. Bender: A new fiber slit assembly for the FOCES spectrograph. In S. Shaklan (Ed.), *Techniques and Instrumentation for Detection of Exoplanets VII* (2015).
- Leviton, D. B., K.H. Miller, M.A. Quijada and F. Grupp: Temperature-dependent refractive index measurements of CaF<sub>2</sub>, Suprasil 3001, and S-FTM16 for the Euclid near-infrared spectrometer and photometer. In R. B. Johnson, V. N. Mahajan, S. Thibault (Eds.), *Current Developments in Lens Design and Optical Engineering XVI* (2015).
- Marlowe, H., R. L. McEntaffer, R. Allured, C. DeRoo, D. M. Miles, B. D. Donovan, J. H. Tutt, V. Burwitz, B. Menz, G. Hartner, R.K. Smith, R. Günther, A. Yanson, G. Vacanti and M. Ackermann: Performance testing of a novel off-plane reflection grating and silicon pore optic spectrograph at PANTER. In Proc. of "EUV and X-ray Optics: Synergy between Laboratory and Space IV", Prague, Czech Republic, 2015. (Eds.) R. Hudec, L. Pina. Proceedings of SPIE Vol. 9510, 95100O (2015).
- Meidinger, N., K. Nandra, M. Plattner, M. Porro, A. Rau, A. Santangelo, C. Tenzer and J. Wilms: Wide field imager instrument for the Advanced Telescope for High Energy Astrophysics. *Journal of Astronomical Telescopes, Instruments, and Systems* 1, 014006 (2015).

- Meidinger, N., J. Eder, M. Fürmetz, K. Nandra, D. Pietschner, M. Plattner, A. Rau, J. Reiffers, R. Strecker, M. Barbera, T. Brand, and J. Wilms: Development of the Wide Field Imager for Athena. In: Proc. of "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XIX", San Diego, USA, 2015. (Ed.) O. H. Siegmund. Proc. of SPIE Vol. 9601, 96010H-1-96010H-11 (2015).
- Menz, B., H. Bräuninger, V. Burwitz, G. Hartner and P. Predehl: A Fresnel zone plate collimator: potential and aberrations. In: "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, 96031Q (2015).
- Miles, D. R., J. H. Tutt, C. T. DeRoo, H. Marlowe, T. J. Peterson, R. L. McEntaffer, B. Menz, V. Burwitz, G. Hartner, C. Laubis, F. Scholze: Diffraction efficiency of radially-profiled off-plane reflection gratings. In Proc. of "Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, 960316 (2015).
- Proserpio, L., C. Wellenhofer, E. Breunig, P. Friedrich and A. Winter: Addressing the problem of glass thickness variation in the indirect slumping technology. In Proc. of "SPIE 9603, Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. L. O'Dell, P. Giovannini. Proceedings of SPIE Vol. 9603, 96030T-1-96030T-10 (2015).
- Proserpio, L., E. Breunig, P. Friedrich, A. Winter, C. Rohe, J. Eder, V. Burwitz, G. D. Hartner, B. Menz, M. Civitani, S. Basso, E. Buratti: JIM: a joint integrated module of glass x-ray optics for astronomical telescopes. In Proc. of "SPIE 9603, Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE 9603, 960311-1-960311-12 (2015).
- Salmaso, B., M. Civitani, C. Brizzolari, S. Basso, M. Ghiogo, G. Pareschi, D. Spiga, L. Proserpio and Y. Suppiger: Development of mirrors made of chemically tempered glass foils for future X-ray telescopes. *Experimental Astronomy* 39, 527-545 (2015).
- Winter, A., E. Breunig, P. Friedrich, L. Proserpio and T. Döhring: Indirect glass slumping for future x-ray missions: overview, status and progress. In Proc. of "SPIE 9603, Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII", San Diego, USA, 2015. (Eds.) S. L. O'Dell, G. Pareschi. Proceedings of SPIE Vol. 9603, 96030S-1-96030S-8 (2015).

## Nicht-referierte Publikationen

- Albertsson, T., D.A. Semenov, A.I. Vasyunin, T. Henning and E. Herbst: Modeling deuterium chemistry of interstellar space with large chemical networks. *Highlights of Astronomy* 16, 624-625 (2015).
- Alves, F., G. A. P. Franco, J. M. Girart, P. Frau and H. Wiesemeyer: The Emergent Low-Mass Cluster B59: How to Beat Magnetic Fields. In Proc. of "Revolution in Astronomy with ALMA": The Third Year. (Eds.) D. Iono, K. Tatematsu, A. Wootten, L. Testi. ASP Conference Series Vol. 499, Astronomical Society of the Pacific, Orem, Utah, 237-238 (2015).
- Bailey, J.D., J.D. Landstreet and S. Bagnulo: Discovery of Secular Evolution of the Atmospheric Abundances of Ap Stars. In Proc. of "IAUS 307: New Window on Massive Stars", Geneva, Switzerland, 2014. (Eds.) G. Meynet, C. Georgy, J. Groh, P. Stee. Proc. IAU 307, Cambridge University Press, Cambridge, UK, 365-366 (2015).
- Barcons, X., K. Nandra, D. Barret, J.-W. den Herder, A.C. Fabian, L. Piro, M.G. Watson and the Athena Team: Athena: the X-ray observatory to study the hot and energetic Universe. *Journal of Physics Conf. Ser.* 610, 012008 (2015).
- Beckman, J., P. Erwin and L. Gutiérrez: What Disc Brightness Profiles Can Tell us about Galaxy Evolution. *Highlights of Astronomy* 16, 361-361 (2015).
- Charbonnel, C., M. Krause, T. Decressin, G. Meynet, N. Prantzos and R. Diehl: How did globular clusters lose their gas? *Highlights of Astronomy* 16, 255-256 (2015).
- Cocato, L., L. Morelli, A. Pizzella, E.M. Corsini, E. Dalla Bontà and M. Fabricius: Counter-rotating disks in galaxies: dissecting kinematics and stellar populations with 3D spectroscopy. In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 133-136 (2015).
- Coutens, A., J.K. Jørgensen, M.V. Persson, J.M. Lykke, V. Taquet, E.F. van Dishoeck, C. Vastel and S.F. Wampfler: Water and complex organic molecules in the warm inner regions of solar-type protostars. In Proc. of "Annual meeting of the French Society of Astronomy and Astrophysics", Becancon, France, 2009. (Eds.) F. Martins, S. Boissier, V. Buat, L. Cambrésy, P. Petit. SF2A 2015, 437-440 (2015).
- Davies, R.L., A. Beifiori, R. Bender, M. Cappellari, J. Chan, R. Houghton, T. Mendel, R. Saglia, R. Sharples, J. Stott, R. Smith and D. Wilman: The KMOS Galaxy Clusters Project. In Proc. of "IAUS 311: Galaxy Masses as Constraints of Formation Models", Oxford, United Kingdom, 2014. (Eds.) M. Capellari, S. Courteau. Proc. IAU 311, Cambridge University Press, Cambridge, UK, 110-115 (2015).
- 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: Spatially resolved molecular gas in early-type galaxies. *Highlights of Astronomy* 16, 122-123 (2015).
- de Jong, J., A. Gueguen, J. Saiz, K. Exter, W. De Meester, W. Salomons, C. McCoey, E. Polehampton, P. Appleton, P. Morris and E. Sturm: Spectral Cube Visualisation and Explorer Tool from the Herschel Interactive Processing Environment (HIPE). In Proc. of "Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)", Calgary, Canada, 2014. (Eds.) A.R. Taylor, E. Rosolowsky. ASP Conf. Ser. 495, Astronomical Society of the Pacific, San Francisco, CA USA, 129 (2015).
- Erwin, P., R. Saglia, J. Thomas, M. Fabricius, R. Bender, S. Rusli, N. Nowak, J.E. Beckman and J.C. Vega Beltrán: Using 3D Spectroscopy to Probe the Orbital Structure of Composite Bulges. In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 359-360 (2015).
- Fabricius, M., R. Saglia, D. Fisher, N. Drory, R. Bender and U. Hopp: A longslit spectroscopic survey of bulges in disc galaxies. *Highlights of Astronomy* 16, 345-345 (2015).
- Fabricius, M.H., L. Cocato, R. Bender, N. Drory, C. Gössl, M. Landriau, R.P. Saglia, J. Thomas and M.J. Williams: Regrowth of stellar disks in mature galaxies: The two component nature of NGC 7217 revisited with VIRUS-W+  $\Delta$ . In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 81-84 (2015).
- Genzel, R. and R. Chiao: Charles Hard Townes. *Phys. Today* 68, 64-65 (2015).
- Gerhard, O., M. Arnaboldi and A. Longobardi: The Outer Halos of Early-Type Galaxies. In Proc. of "IAUS 311: Galaxy Masses as Constraints of Formation Models", Oxford, United Kingdom, 2014. (Eds.) M. Capellari, S. Courteau. Proc. IAU 311, Cambridge University Press, Cambridge, UK, 31-35 (2015).
- Gerhard, O.: Formation Models of the Galactic Bulge. In Proc. of "Fifty Years of Wide Field Studies in the Southern Hemisphere: Resolved Stellar Populations of the Galactic Bulge and Magellanic Clouds", La Serena, Chile, 2013. (Eds.) S. Points, A. Kunder. ASP Conf. Ser. 491, Astronomical Society of the Pacific, San Francisco, CA USA, 169 (2015).
- Hilchenbach, M., Y. Langevin, C. Engrand, ..., G. Haerendel, et al.: In-Situ Cometary Particle Measurements in the Inner Coma of Comet 67P/Churyumov-Gerasimenko. In Proc. of "46th Lunar and Planetary Science Conference", The Woodlands, USA, 2015. (Eds.) LPI Editorial Board. Proc. Lunar and Planetary Institute Science Conferences 46, Lunar and Planetary Institute, 1936 (2015).

- Ivlev, A.V., V. Nosenko and T.B. Röcker: Equilibrium and Non-Equilibrium Melting of Two-Dimensional Plasma Crystals. *Contributions to Plasma Physics* 55, 35-57 (2015).
- Kim, J.W., G. Lemson, N. Bulatovic, V. Makarenko, A. Vogler, W. Voges, Y. Yao, R. Kiefl and S. Koychev: AWOB: A Collaborative Workbench for Astronomers. In Proc. of "Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)", Calgary, Canada, 2014. (Eds.) A.R. Taylor, E. Rosolowsky. ASP Conf. Ser. 495, Astronomical Society of the Pacific, San Francisco, CA USA, 491 (2015).
- Kodama, T., M. Hayashi, Y. Koyama, K.-I. Tadaki, I. Tanaka, R. Shimakawa, T. Suzuki and M. Yamamoto: Mapping and resolving galaxy formation at its peak epoch with Mahalo-Subaru and Gracias-ALMA. In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 255-258 (2015).
- Kormendy, J. and K.C. Freeman: Scaling Laws for Dark Matter Halos in Late-Type and Dwarf Spheroidal Galaxies. In Proc. of "IAUS 311: Galaxy Masses as Constraints of Formation Models", Oxford, United Kingdom, 2014. (Eds.) M. Capellari, S. Courteau. Proc. IAU 311, Cambridge University Press, Cambridge, UK, 72-77 (2015).
- Kormendy, J.: Internal and environmental secular evolution of disk galaxies. *Highlights of Astronomy* 16, 316-317 (2015).
- Kümmel, M., J. Mohr, A. Fontana, H. Dole, A. Boucaud, R. Cabanac, M. Castellano, P. Petrinca and S. Pilo: Source Detection and Classification in Euclid. In Proc. of "Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)", Calgary, Canada, 2014. (Eds.) A.R. Taylor, E. Rosolowsky. ASP Conf. Ser. 495, Astronomical Society of the Pacific, San Francisco, CA USA, 249 (2015).
- Leaman, R., K. Venn, A. Brooks, G. Battaglia, A. Cole, R. Ibata, M. Irwin, A. McConnachie, T. Mendel, E. Tolstoy and E. Starkenburg: Using radial metallicity gradients in dwarf galaxies to study environmental processing. *Memorie della Societa Astronomica Italiana*, 85(3), 504-508 (2015).
- Müller, T. G.: Kleinplanetenstudien am Beispiel (7984) Marius und weiterer "fränkischer" Kleinplaneten. *Regio-montanusbote* Jg. 28, 1 (2015).
- Marlowe, H., R. L. McEntaffer, R. Allured, C. T. De Roo, B. D. Donovan, D. M. Miles, J. H. Tutt, V. Burwitz, B. Menz, G. Hartner, R.K. Smith, P. Cheimets, E. Hertz, J.A. Bookbinder, R. Günther, A. Yanson, G. Vacanti, M. Ackermann: Performance testing of an off-plane reflection grating and silicon pore optic spectrograph at PANTER. *Journal of Astronomical Telescopes, Instruments, and Systems* 1(4), 045004, (2015).
- Martinez-Valpuesta, I. and O. Gerhard: A secularly evolved model for the Milky Way bar and bulge. *Highlights of Astronomy* 16, 351-351 (2015).
- Okada, T., T. Fukuhara, S. Tanaka, ..., T.G. Mueller, et al.: Thermal Infrared Imager TIR on Hayabusa2 for Observation of Asteroid (162173)1999JU3. In Proc. of "46th Lunar and Planetary Science Conference", The. (Eds.) LPI Editorial Board. Proc. Lunar and Planetary Institute Science Conferences 46, Lunar and Planetary Institute, 1331 (2015).
- Opitsch, M., M. Fabricius, R. Saglia, R. Bender and M. Williams: Detailed stellar and gaseous kinematics of M31. In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 334-334 (2015).
- Raddi, R., B.T. Gänsicke, D. Koester, J. Farihi, J.J. Hermes, S. Scaringi, E. Breedt, J. Girven and EGAPS Consortium: Is the Oxygen-Rich White Dwarf SDSS J1242+5226 Accreting Water-Abundant Debris?. In Proc. of "19th European Workshop on White Dwarfs", Montreal, Canada, 2014. (Eds.) P. Dufour, P. Bergeron, G. Fontaine. ASP Conf. Ser. 493, Astronomical Society of the Pacific, San Francisco, CA USA, 273 (2015).
- Remus, R.-S., K. Dolag and A. Burkert: The Dark Halo - Spheroid Conspiracy Reloaded: Evolution with Redshift. In Proc. of "IAUS 311: Galaxy Masses as Constraints of Formation Models", Oxford, United Kingdom, 2014. (Eds.) M. Capellari, S. Courteau. Proc. IAU 311, Cambridge University Press, Cambridge, UK, 116-119 (2015).
- Rosen, S., M. Watson, J. Pye, N. Webb, A. Schwobe, M. Freyberg, C. Motch, J. Ballet, F. Carrera, M. Page and C. Page: The 3XMM-DR4 Catalogue. In Proc. of "Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)", Calgary, Canada, 2014. (Eds.) A.R. Taylor, E. Rosolowsky. ASP Conf. Ser. 495, Astronomical Society of the Pacific, San Francisco, CA USA, 319 (2015).
- Saha, K. and O. Gerhard: Rotation of classical bulges during secular evolution of barred galaxies. *Highlights of Astronomy* 16, 329-329 (2015).
- Scaringi, S., T.J. Maccarone, E. Körding, C. Knigge, S. Vaughan, T.R. Marsh, E. Aranzana, V.S. Dhillon and S.C.C. Barros: Accretion-induced variability links young stellar objects, white dwarfs, and black holes. *Science Advances*, 1(9): e1500686 (2015).
- Schulz, R., M. Kadler, E. Ros, D. Eisenacher Glawion, U. Bach, D. Elsaesser, C. Grossberger, I. Kreykenbohm, K. Mannheim, C. Mueller, J. Trüstedt and J. Wilms: The EVN view of the highly variable TeV active galaxy IC310. In: 12th European VLBI Network Symposium & Users Meeting - EVN 2014, pp. 1-4 (2015).
- Siegert, T. and R. Diehl: Gamma-ray lines from SN2014J. In: 10th INTEGRAL Workshop: A Synergistic View of the High-Energy Sky – Integral2014 (2015).
- Skinner, G., R. Diehl, X. Zhang, L. Bouchet and P. Jean: The Galactic distribution of the 511 keV e<sup>+</sup>/e<sup>-</sup> annihilation radiation. In: 10th INTEGRAL Workshop: A Synergistic View of the High-Energy Sky – Integral2014 (2015).
- Strong, A. W., C. Dickinson and E. Murphy: Synchrotron emission from molecular clouds. In: Cosmic Rays and the InterStellar Medium Environment – CRISM2014 (2015).
- Thi, W.-F.: Chemical networks. In Proc. of "Summer School - Protoplanetary Disks: Theory and Modeling Meet Observations", Ameland, The Netherlands, 2014. (Eds.) I. Kamp, P. Woitke, J.D. Ilee. EPJ Web of Conferences 10, EDP Sciences, Les Ulis, France, id. 200014 (2015).



Thi, W.-F.: Disk Chemistry. In Proc. of "Summer School - Protoplanetary Disks: Theory and Modeling Meet Observations", Ameland, The Netherlands, 2014. (Eds.) I. Kamp, P. Woitke, J.D. Ilee. EPJ Web of Conferences 10, EDP Sciences, Les Ulis, France, id. 200012 (2015).

Thomas, J., R. Saglia, R. Bender, P. Erwin and M. Fabricius: Massive Elliptical Galaxies: BH Scouring or a Bottom-Heavy IMF?. In Proc. of "IAUS 311: Galaxy Masses as Constraints of Formation Models", Oxford, United Kingdom, 2014. (Eds.) M. Capellari, S. Courteau. Proc. IAU 311, Cambridge University Press, Cambridge, UK, 36-39 (2015).

Trümper, J., K. Dennerl, N. Kylafis, A. Zezas and Ü. Ertaç: The Quiescent X-Ray Emission of Apxs and Sgrs -- Powered by Accretion from a Fallback Disk. In Proc. of "The Thirteenth Marcel Grossmann Meeting", Stockholm, Sweden, 2012. (Eds.) R. Ruffini, R. Jantzen, U. Villanova, K. Rosquist. In: Thirteenth Marcel Grossmann Meeting: On Recent Developments in Theoretical and Experimental General Relativity, Astrophysics and Relativistic Field Theories, World Scientific Publishing, Singapore, Singapore, 2292-2294 (2015).

Tsytoich, V., R. Suetterlin, H. Thomas and A. Ivlev: Note on Mechanism for Formation of Bulbs (Structures) in Complex Plasmas with Grains of Different Size. Contributions to Plasma Physics 55, 494-497 (2015).

van Dishoeck, E. F., N. van der Marel, S. Bruderer and P. Pinilla: Quantifying the gas inside dust cavities in transitional disks: implications for young planets. In: D. Iono, K. Tatematsu, A. Wootten, L. Testi (Eds.), Revolution in Astronomy with ALMA: The Third Year (2015).

Varela, K., H.J. van Eerten, J. Greiner and P. Schady: Constraining the fireball scenario of GRB afterglows with GROND and multi-wavelength data. In: Swift: 10 Years of Discovery - SWIFT 10 (2015).

Wilman, D., R. Bender, R.L. Davies, J.T. Mendel, J. Chan, A. Beifiori, R. Houghton, R. Saglia, N.F. Schreiber, S. Wuyts, P. van Dokkum, M. Cappellari, J. Stott, R. Smith, M. Fossati, S. Kulkarni, S. Seitz, M. Fabricius, R. Sharples, G. Brammer, E. Nelson, I. Momcheva, M. Wegner and I. Lewis: KMOS Clusters and VIRIAL GTO Surveys. In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 293-294 (2015).

Wuyts, E.: The Evolution of Resolved Kinematics and Metallicity from Redshift 2.7 to 0.7 with LUCI, SINS/zC-SINF and KMOS<sup>3D</sup>. In Proc. of "IAUS 309: Galaxies in 3D Across the Universe", Vienna, Austria, 2014. (Eds.) B.L. Ziegler, F. Combes, H. Dannerbauer, M. Verdugo. Proc. IAU 309, Cambridge University Press, Cambridge, UK, 243-246 (2015).

## Bücher / Beiträge in Büchern

Boller, Th. and A. Müller: Observational Tests of the Pseudo-complex Theory of GR Using Black Hole Candidates, Nuclear Physics: Present and Future. (Ed.) W. Greiner. Springer, ISBN 978-3-319-10198-9, Springer International Publishing Switzerland 2015, 245-253 (2015).

Burgess, D., and M. Scholer: Collisionless Shocks in Space Plasmas: Structure and Accelerated Particles. Cambridge Atmospheric and Space Science Series, Cambridge University Press (2015).

Friedrich, S. and P. Friedrich (Eds.): Mondfinsternisse - Grundlagen, Beobachtung, Fotografie. Astronomie-Verlag, Schwaig 2015, 48 p.

Friedrich, S., P. Friedrich and K.-P. Schröder (Eds.): Handbuch Astronomie - Grundlagen und Praxis für Hobby-Astronomen. Oculum-Verlag, Erlangen 2015, 560 p.

Müller T. G.: Fränkische Kleinplaneten, Astronomie in Franken - Simon Marius und seine Zeit. Von den Anfän-

gen bis zur modernen Astrophysik - 125 Jahre Dr. Karl Remeis-Sternwarte Bamberg (1889). Proceedings der Tagung des Arbeitskreises Astronomiegeschichte in der Astronomischen Gesellschaft, Nuncius Hamburgensis - Beiträge zur Geschichte der Naturwissenschaften.(Ed.) G. Wolfschmidt. G. Wolfschmidt, Hamburg, 256-270 (2015).

Thi, W.-F.: Chemical networks, Summer School - Protoplanetary Disks: Theory and Modeling Meet Observations. Ameland, The Netherlands.(Ed.) W.-F. Thi. EPJ Web of Conferences 102, 14-23 (2015).

Thi, W.-F.: Disk Chemistry, Summer School - Protoplanetary Disks: Theory and Modeling Meet Observations. Ameland, The Netherlands.(Eds.) I. Kamp, P. Woitke, J. D. Lee. EPJ Web of Conferences 102, 12-33 (2015).

## Artikel in der Öffentlichkeitsarbeit

Müller, T. G.: Kleinplanetenstudien am Beispiel (7984) Marius und weiterer "fränkischer" Kleinplaneten. Regiomontanusbote Jg. 28, 1 (2015).

Primas, F., R. Ivison, J.-P. Berger, P. Caselli, I. De Gregorio-Monsalvo, A.A. Herrero, K.K. Knudsen, B. Leibundgut, A. Moitinho, I. Saviane, J. Spyromilio, L. Testi and S.

Vennes: Shaping ESO2020+ together: feedback from the community poll. The ESO Messenger, 161, 6-14 (2015)

## Telegramme / Zirkulare / Datenkataloge

- Acerro, F., M. Ackermann, M. Ajello, ..., A.W. Strong, et al.: VizieR Online Data Catalog: Fermi LAT third source catalog (3FGL) (Acerro+, 2015). VODC 221 (2015).
- Arasa, C., J. Koning, G.-J. Kroes, C. Walsh and E.F. van Dishoeck: VizieR Online Data Catalog: Photodesorption of H<sub>2</sub>O, HDO and D<sub>2</sub>O ice (Arasa+, 2015). VODC 357 (2015).
- Bahramian, A., C.O. Heinke, R. Wijnands, N. Degenaar and G. Ponti: Swift follow-up observations of outburst from H 1658-298. The Astronomer's Telegram 8046 (2015).
- Balogh, M.L., S.L. McGee, A. Mok, D.J. Wilman, A. Finoguenov, R.G. Bower, J.S. Mulchaey, L.C. Parker and M. Tanaka: VizieR Online Data Catalog: GEEC2 spectroscopic survey of Galaxy groups (Balogh+, 2014). VODC 744 (2015).
- Bissaldi, E., V. Connaughton and A. von Kienlin: GRB 150721A: Fermi GBM detection. GCN Circ. 18041 (2015).
- Bolmer, J., F. Knust and J. Greiner: GRB 151112A: GROND photometric redshift and i'-band prediction. GCN Circ. 18603 (2015).
- Bolmer, J., F. Knust and J. Greiner: GRB 151114A: GROND Detection of the Optical/NIR Afterglow Candidate. GCN Circ. 18607 (2015).
- Bolmer, J., J. Graham, F. Knust and J. Greiner: GRB 151111A: GROND confirmation of the afterglow and photometric redshift estimate. GCN Circ. 18598 (2015).
- Bottacini, E., C. Ferrigno, S. Fotopoulou, W. Collmar and E. Pian: Brightening of 3C 279 observed by INTEGRAL at hard X-rays. The Astronomer's Telegram 7648 (2015).
- Brusa, M., C. Feruglio, G. Cresci, V. Mainieri, M.T. Sargent, M. Perna, P. Santini, F. Vito, A. Marconi, A. Merloni, D. Lutz, E. Piconcelli, G. Lanzuisi, R. Maiolino, D. Rosario, E. Daddi, A. Bongiorno, F. Fiore and E. Lusso: VizieR Online Data Catalog: Spectrum of QSO XMMC 2028 (Brusa+, 2015). VODC 357 (2015).
- Burns, E., P. Jenke, B. Mailyan, G. Younes and A. von Kienlin: V404 Cyg: Fermi GBM observations. GCN Circ. 17948 (2015).
- de Cicco, D., M. Paolillo, G. Covone, S. Falocco, G. Longo, A. Grado, L. Limatola, M.T. Botticella, G. Pignata, E. Cappellaro, M. Vaccari, D. Trevese, F. Vagnetti, M. Salvatore, M. Radovich, W.N. Brandt, M. Capaccioli, N.R. Napolitano and P. Schipani: VizieR Online Data Catalog: COSMOS field variability-selected AGN nuclei (De Cicco+, 2015). VODC 357 (2015).
- Coccatto, L., M. Fabricius, L. Morelli, E.M. Corsini, A. Pizzella, P. Erwin, E. Dalla Bonta, R. Saglia, R. Bender and M. Williams: VizieR Online Data Catalog: NGC 4191 counter-rotating stellar components (Coccatto+, 2015). VODC 358 (2015).
- Connaughton, V., M.S. Briggs, A. Goldstein, C.A. Meegan, W.S. Paciesas, R.D. Preece, C.A. Wilson-Hodge, M.H. Gibby, J. Greiner, D. Gruber, P. Jenke, R.M. Kippen, V. Pelassa, S. Xiong, H.-F. Yu, P.N. Bhat, J.M. Burgess, D. Byrne, G. Fitzpatrick, S. Foley, M.M. Giles, S. Guiriec, A.J. van der Horst, A. von Kienlin, S. McBreen, S. McGlynn, D. Tierney and B.-B. Zhang: VizieR Online Data Catalog: Localizations of GRBs with Fermi GBM (Connaughton+, 2015). VODC 221 (2015).
- Delvaux, C. and J. Greiner: Swift J004249.5+411212: Correction to ATEL 7048. The Astronomer's Telegram 7054 (2015).
- Delvaux, C., J. Greiner and W. Pietsch: Swift/UVOT constrains outburst of Nova M31 2015-02a to well before optical detection. The Astronomer's Telegram 7104 (2015).
- Delvaux, C., K. Varela and J. Greiner: GRB 150202A: GROND Upper limits. GCN Circ. 17381 (2015).
- Delvaux, C., K. Varela and J. Greiner: GRB 150203A: GROND Upper limits. GCN Circ. 17386 (2015).
- Delvaux, C., P. Schady, W. Pietsch, F. Haberl and J. Greiner: Swift J004249.5+411212, a new X-ray transient in M 31. The Astronomer's Telegram 7048 (2015).
- Dominguez Sanchez, H., A. Bongiovanni, M.A. Lara-Lopez, I. Oteo, J. Cepa, A.M. Perez Garcia, M. Sanchez-Portal, A. Ederoclite, D. Lutz, G. Cresci, I. Delvecchio, S. Berta, B. Magnelli, P. Popesso, F. Pozzi and L. Riguccini: VizieR Online Data Catalog: Herschel far-IR counterparts of SDSS galaxies (Dominguez+, 2014). VODC 744 (2015).
- Falocco, S., M. Paolillo, G. Covone, D. de Cicco, G. Longo, A. Grado, L. Limatola, M. Vaccari, M.T. Botticella, G. Pignata, E. Cappellaro, D. Trevese, F. Vagnetti, M. Salvatore, M. Radovich, L. Hsu, M. Capaccioli, N. Napolitano, W.N. Brandt, A. Baruffolo, E. Cascone and P. Schipani: VizieR Online Data Catalog: SUDARE-VOICE variability-selection of AGN (Falocco+, 2015). VODC 357 (2015).
- Finoguenov, A., M. Tanaka, M. Cooper, V. Allevato, N. Cappelluti, A. Choi, C. Heymans, F.E. Bauer, F. Ziparo, P. Ranalli, J. Silverman, W.N. Brandt, Y.Q. Xue, J. Mulchaey, L. Howes, C. Schmid, D. Wilman, A. Comastri, G. Hasinger, V. Mainieri, B. Luo, P. Tozzi, P. Rosati, P. Capak and P. Popesso: VizieR Online Data Catalog: Ultra-deep catalog of X-ray groups in ECDF-S (Finoguenov+, 2015). VODC 357 (2015).
- Gazeas, K., G. Vasilopoulos, M. Petropoulou and K. Sarpountzis: Optical follow-up of V404 Cyg during the current enhanced activity. The Astronomer's Telegram (ATel) 7650 (2015).
- Golenetskii, S., R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinikin, T. Cline, K. Hurley, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, W. Boynton, C. Fellows, K. Harshman, H. Enos and R. Starr: IPN Triangulation of a bright burst from SGR 1935+2154. GCN Circ. 17699 (2015).
- Golenetskii, S., R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinikin, T. Cline, K. Hurley, I.G. Mitrofanov, D. Golovin,

- M.L. Litvak, A.B. Sanin, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. Goldstein, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, W. Boynton, C. Fellows, K. Harshman, H. Enos and R. Starr: IPN Triangulation of GRB 150922A (short/hard). GCN Circ. 18357 (2015).
- Golenetskii, S., R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. Goldstein, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN Triangulation of GRB 150210A. GCN Circ. 17439 (2015).
- Golenetskii, S., R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. Goldstein, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN Triangulation of GRB 150811B. GCN Circ. 18133 (2015).
- Golenetskii, S., R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, K. Hurley, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. Goldstein, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo and C. Ferrigno: IPN Triangulation of GRB 150819B (short / very intense). GCN Circ. 18176 (2015).
- Graham, J.F., T. Schweyer and J. Greiner: GRB 151111A: GROND marginal detection of a afterglow candidate. GCN Circ. 18585 (2015).
- Greiner, J., M. Wieringa and P. Wiseman: GRB 151027B: ATCA radio detection. GCN Circ. 18548 (2015).
- Haberl, F., G. Vasilopoulos, R. Sturm and P. Maggi: Identification of IGR J01217-7257 with the transient pulsar XTE J0119-731 (SXP2.16) using XMM-Newton. The Astronomer's Telegram 8305 (2015).
- Henze, M., M. Sasaki, F. Haberl and D. Hatzidimitriou: Recent X-ray transients in the M31 disk found with XMM-Newton. The Astronomer's Telegram 8227 (2015).
- Henze, M., M. Sasaki, F. Haberl and D. Hatzidimitriou: Supersoft X-ray detections of M31 Novae with XMM-Newton. The Astronomer's Telegram 8228 (2015).
- Hornoch, K., H. Kucakova, J. Vrstil, M. Henze, A.F. Valseev, S. Fabrika, A.W. Shafter, G. Sala, J. Jose, J. Figueira, M. Hernanz and W. Pietsch: Optical light curve parameters of the M31 recurrent nova M31N 2006-11c during its 2015 outburst. The Astronomer's Telegram 7142 (2015).
- Hurley, K., I.-G. Mitrofanov, D. Golovin, ..., A. von Kienlin, X. Zhang, A. Rau, et al.: IPN Triangulation of GRB 151222A (short/hard). GCN Circ. 18720, 1 (2015).
- Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, 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, W. Boynton, C. Fellows, K. Harshman, H. Enos and R. Starr: IPN Triangulation of GRB 150919A (short / hard). GCN Circ. 18355 (2015).
- Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, W. Boynton, C. Fellows, K. Harshman, H. Enos and R. Starr: IPN Triangulation of GRB 150702A. GCN Circ. 17993 (2015).
- Hurley, K., I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, 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, W. Boynton, C. Fellows, K. Harshman, H. Enos and R. Starr: IPN Triangulation of GRB 150824A. GCN Circ. 18202 (2015).
- Hurley, K., I.G. Mitrofanov, M.L. Golovin, ..., A. von Kienlin, X. Zhang, A. Rau, et al.: IPN Triangulation of GRB 151227B. GCN Circ. 18773, 1 (2015).
- Hurley, K., J. Goldsten, I.G. Mitrofanov, D. Golovin, M.L. Litvak, A.B. Sanin, S. Golenetskii, R. Aptekar, V. Pal'Shin, D. Frederiks, D. Svinkin, T. Cline, V. Connaughton, M.S. Briggs, C. Meegan, V. Pelassa, A. Goldstein, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, D. Palmer, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, W. Boynton, C. Fellows, K. Harshman, H. Enos and R. Starr: IPN Triangulation of GRB 150118B (long/intense). GCN Circ. 17342 (2015).
- 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. Goldstein, 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 150202B. GCN Circ. 17398 (2015).
- 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. Goldstein, 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 150330A (long/very intense). GCN Circ. 17659 (2015).
- Jenke, P. and A. von Kienlin: GRB 150127B: Fermi GBM detection. GCN Circ. 17364 (2015).
- Kann, D.A., C. Delvaux and J. Greiner: GRB 150301B: GROND afterglow observations. GCN Circ. 17522 (2015).
- Kann, D.A., K. Varela, S. Schmidl and J. Greiner: GRB 150204A: GROND observations. GCN Circ. 17430 (2015).
- Kann, D.A., M. Tanga and J. Greiner: GRB 150424A: GROND detects strong fading. GCN Circ. 17757 (2015).
- Kann, D.A., T. Kruehler, S. Klose and J. Greiner: GRB

- 150423A: VLT detection. GCN Circ. 17738 (2015).
- Kennea, J.A., D.N. Burrows, M.J. Coe, A.J.B.G. Vasilopoulos, F. Haberl, P.A. Evans, A.P. Beardmore, H.A. Krimm, P. Romano, P. Curran, K. Yamaoka, M. Serino and H. Negoro: Swift observations show MAXI J0051-736 is a new outburst of SMC X-2. The Astronomer's Telegram 8091 (2015).
- von Kienlin, A. and C. Meegan: GRB 150219A: Fermi GBM observation. GCN Circ. 17481 (2015).
- von Kienlin, A. and C. Meegan: GRB 151229A: Fermi GBM observation. GCN Circ. 18756, 1 (2015).
- von Kienlin, A. and E. Burns: GRB 150120A: Fermi GBM observation. GCN Circ. 17319 (2015).
- von Kienlin, A.: Fermi GBM trigger 150615574 is not a GRB. GCN Circ. 17927 (2015).
- von Kienlin, A.: GRB 150323B: Fermi GBM observation. GCN Circ. 17623 (2015).
- von Kienlin, A.: GRB 151120A: Fermi GBM observation. GCN Circ. 18628 (2015).
- Knust, F., D.A. Kann, T. Kruehler and J. Greiner: GRB 150428A: GROND Dark Burst Host Candidate. GCN Circ. 17767 (2015).
- Knust, F., J. Bolmer, T. Kruehler, S. Schmidl and J. Greiner: GRB 151029A: GROND afterglow observations. GCN Circ. 18523 (2015).
- Knust, F., S. Klose and J. Greiner: GRB 150831A: GROND Upper Limits. GCN Circ. 18219 (2015).
- Knust, F., S. Klose and J. Greiner: GRB 151023. GCN Circ. 18461 (2015).
- Knust, F., T. Schweyer, J. Bolmer and J. Greiner: GRB 150201A: GROND upper limits. GCN Circ. 17372 (2015).
- Knust, F., T.-W. Chen and J. Greiner: GRB 151112A: GROND Detection of the Optical/NIR Afterglow Candidate. GCN Circ. 18595 (2015).
- Kostrzewa-Rutkowska, Z., L. Wyrzykowski, S. Kozłowski, A. Udalski, J. Greiner and F. Knust: GROND follow-up of superluminous supernova OGLE15qz. The Astronomer's Telegram 8314 (2015).
- Kruehler, T., D. Malesani, J.P.U. Fynbo, ..., P. Schady, ..., J.F. Graham, J. Greiner, P. Goldoni, A. Gomboc, F. Hammer, J. Japelj, D.A. Kann, L. Kaper, S. Klose, A.J. Levan, G. Leloudas, B. Milvang-Jensen, A. Nicuesa Guelbenzu, E. Palazzi, E. Pian, S. Piranomonte, R. Sanchez-Ramirez, S. Savaglio, J. Selsing, G. Tagliaferri, P.M. Vreeswijk, D.J. Watson and D. Xu: VizieR Online Data Catalog: UV/Optical/NIR spectroscopy GRB hosts (Kruehler+, 2015). VODC 358 (2015).
- Kruehler, T., F. Schrey, W. Bornemann, A. Rau and J. Greiner: GRB 150821A: GROND afterglow observations. GCN Circ. 18195 (2015).
- Kruehler, T., J. Greiner, J. Ridl and A. Hempel: GRB 151120A: GROND optical/NIR afterglow. GCN Circ. 18624 (2015).
- Krumpe, M., T. Miyaji, H. Brunner, H. Hanami, T. Ishigaki, T. Takagi, A.G. Markowitz, T. Goto, M.A. Malkan, H. Matsuhara, C. Pearson, Y. Ueda and T. Wada: VizieR Online Data Catalog: X-ray sources in the AKARI NEP deep field (Krumpe+, 2015). VODC 744 (2015).
- Maitra, C., J. Ballet, M.D. Filipovic, F. Haberl, A. Tiengo, K. Grieve and Q. Roper: VizieR Online Data Catalog: SNR IKT 16 X-ray image (Maitra+, 2015). VODC 358 (2015).
- Malesani, D., T. Kruehler, D. Xu, G. Pugliese, D. Watson, J.P.U. Fynbo, B. Milvang-Jensen, A. de Ugarte Postigo, N.R. Tanvir, V. D'Elia, K. Wiersema, J. Greiner and J. Japelj: GRB 150423A: VLT/X-shooter spectroscopy and tentative redshift. GCN Circ. 17755 (2015).
- Nandra, K., E.S. Laird, J.A. Aird, M. Salvato, A. Georgakakis, G. Barro, P.G. Perez-Gonzalez, P. Barmby, R.-R. Chary, A. Coil, M.C. Cooper, M. Davis, M. Dickinson, S.M. Faber, G.G. Fazio, P. Guhathakurta, S. Gwyn, L.-T. Hsu, J.-S. Huang, R.J. Ivison, D.C. Koo, J.A. Newman, C. Rangel, T. Yamada and C. Willmer: AEGIS-X: deep Chandra imaging of the central Groth Strip. VODC 222 (2015).
- Neilsen, J., S. Motta, M. Coriat, R. Fender, G. Ponti, S. Corbel and A. Sanna: X-ray Spectroscopy of H1743-322 in Outburst. The Astronomer's Telegram 7652 (2015).
- Nicuesa Guelbenzu, A., P. Wiseman and J. Greiner: GRB 150222A: GROND optical afterglow candidate. GCN Circ. 17495 (2015).
- Nicuesa Guelbenzu, A., P. Wiseman, P. Schady and J. Greiner: GRB 150222A: Further GROND Observations. GCN Circ. 17506 (2015).
- Planck Collaboration, P.A.R. Ade, N. Aghanim, C. Armitage-Caplan, ..., H. Böhringer, ..., G. Chon, et al.: VizieR Online Data Catalog: Updated Planck catalogue PSZ1 (Planck+, 2015). VODC 358 (2015).
- Ranalli, P., I. Georgantopoulos, A. Corral, L. Koutoulidis, M. Rovilos, F.J. Carrera, A. Akylas, A. Del Moro, A. Georgakakis, R. Gilli and C. Vignali: VizieR Online Data Catalog: The XMM-ATLAS catalogues (Ranalli+, 2015). VODC 357 (2015).
- Rau, A., R. Yates and J. Greiner: ATel 7524: IGR J19566+0326: GROND optical/near-IR counterpart discovery. The Astronomer's Telegram 7524 (2015).
- Roberts, O.J., A. von Kienlin and C. Meegan: GRB 150922A: Fermi GBM observation. GCN Circ. 18358 (2015).
- Schmidl, S., F. Knust and J. Greiner: GRB 150910A: GROND observation of the afterglow. GCN Circ. 18277 (2015).
- Schmidl, S., F. Knust and J. Greiner: GRB 150911A: GROND Upper Limits. GCN Circ. 18313 (2015).
- Schmidl, S., J. Graham and J. Greiner: GRB 151031A: GROND observation. GCN Circ. 18550 (2015).
- Schweyer, T. and D. A. Kann: GRB 151205A: Garching Telescope Upper Limit. GCN Circ. 18663 (2015).
- Schweyer, T. and J. Greiner: GRB 151127A: GROND K-band upper limit. GCN Circ. 18645 (2015).
- Schweyer, T., D.A. Kann and J. Greiner: GRB 150430A: GROND Upper Limits. GCN Circ. 17796 (2015).

- Schweyer, T., S. Schmidl and J. Greiner: GRB 150206A: GROND afterglow observations. GCN Circ. 17419 (2015).
- Simm, T., R. Saglia, M. Salvato, R. Bender, W.S. Burgett, K.C. Chambers, P.W. Draper, H. Flewelling, N. Kaiser, R.-P. Kudritzki, E.A. Magnier, N. Metcalfe, J.L. Tonry, R.J. Wainscoat and C. Waters: Pan-STARRS1 variability of XMM-COSMOS AGN. I. Impact on photometric redshifts. VODC 358 (2015).
- Smolcic, V., P. Ciliegi, V. Jelic, M. Bondi, E. Schinnerer, C.L. Carilli, D.A. Riechers, M. Salvato, A. Brkovic, P. Capak, O. Ilbert, A. Karim, H. McCracken and N.Z. Scoville: VizieR Online Data Catalog: The VLA-COSMOS Survey. V. 324MHz (Smolcic+, 2014). VODC 744 (2015).
- Stanbro, M. and A. von Kienlin: GRB150127A: Fermi GBM Detection. GCN Circ. 17355 (2015).
- Tanga, M., C. Delvaux, J. Greiner and D.A. Kann: GRB 150301A: GROND Observations. GCN Circ. 17513 (2015).
- Tanvir, N.R., A.J. Levan, A.S. Fruchter, J. Hjorth, D. Watson, D. Perley, J. Greiner, A. de Ugarte Postigo, C. Thoenne, R.A. Hounsell and S. Rosswog: GRB 150424A: HST imaging. GCN Circ. 18100 (2015).
- Valtonen, M., S. Zola, A. Gopakumar, K. Gazeas, W. Ogloza, M. Drozd, M. Siwak, B. Debski, J. Dalessio, K. Sadakane, M. Kidger, K. Nilsson, A. Berdyugin, E. Lindfors, L. Takalo, K. Baliyan, M. Mugrauer, F. Alicavus, A. Erdem, J. Provencal, J. Webb, M. Zejmo, E. Sobas, H. Er, W. Keel and T. Schweyer: The 2015 outburst of the OJ287 blazar. The Astronomer's Telegram (ATel) 8378 (2015).
- Varela, K., F. Knust and J. Greiner: GRB 150423A: GROND afterglow candidate. GCN Circ. 17732 (2015).
- Varela, K., F. Knust, J. Bodensteiner and J. Greiner: GRB 150423A: GROND observation. GCN Circ. 17729 (2015).
- Veres, P., C. Meegan and A. von Kienlin: GRB 151231A: Fermi GBM observation. GCN Circ. 18787, 1 (2015).
- Williams, B.F., B. Wold, F. Haberl, K. Garofali, W.P. Blair, T.J. Gaetz, K.D. Kuntz, K.S. Long, T.G. Pannuti, W. Pietsch, P.P. Plucinsky and P.F. Winkler: VizieR Online Data Catalog: Deep XMM-Newton survey of M33 (Williams+, 2015). VODC 221 (2015).
- Wiseman, P. and J. Greiner: GRB 151027B: GROND Optical/NIR Afterglow Detection. GCN Circ. 18507 (2015).
- Wiseman, P., C. Delvaux and J. Greiner: GRB 150907B: GROND Upper Limits. GCN Circ. 18252 (2015).
- Wiseman, P., D.A. Kann, T. Schweyer and J. Greiner: GRB 151215A: GROND Detection of the Optical/NIR Afterglow. GCN Circ. 18694 (2015).
- Wiseman, P., J. Graham, P. Schady and J. Greiner: GRB 150120B: GROND Afterglow Detection. GCN Circ. 17336 (2015).
- Wiseman, P., K. Varela, M. Salvato and J. Greiner: GRB 150318A: GROND upper limits. GCN Circ. 17602 (2015).
- Wiseman, P., S. Schmidl and J. Greiner: GRB 151212A: GROND Optical Afterglow Candidate. GCN Circ. 18688 (2015).
- Wiseman, P., T. Kruehler, D.A. Kann, C. Delvaux and J. Greiner: GRB 151210A: GROND Afterglow Confirmation. GCN Circ. 18680 (2015).
- Yates, R., D.A. Kann, C. Delvaux and J. Greiner: GRB 151205B: Deep GROND Upper limits. GCN Circ. 18674 (2015).
- Yates, R., F. Knust, D.A. Kann and J. Greiner: GRB 150514A: GROND Bright Afterglow Confirmation. GCN Circ. 17821 (2015).
- Yates, R., J. Bolmer and J. Greiner: GRB 150915A: GROND detection of an optical counterpart candidate. GCN Circ. 18317 (2015).
- Yildiz, U.A., L.E. Kristensen, E.F. van Dishoeck, M.R. Hogerheijde, A. Karska, A. Belloche, A. Endo, W. Frieswijk, R. Gusten, T.A. van Kempen, S. Leurini, Z. Nagy, J.P. Perez-Beaupuits, C. Risacher, N. van der Marel, R.J. van Weeren and F. Wyrowski: VizieR Online Data Catalog: YSOs APEX-CHAMP+ high-J CO maps (Yildiz+, 2015). VODC 357 (2015).
- Yu, H.-F., J. Greiner, H. van Eerten, M.J. Burgess, P.N. Bhat, M.S. Briggs, V. Connaughton, R. Diehl, A. Goldstein, D. Gruber, P.A. Jenke, A. von Kienlin, C. Kouveliotou, W.S. Paciesas, V. Pelassa, R.D. Preece, O.J. Roberts and B.-B. Zhang: VizieR Online Data Catalog: Spectral properties of energetic GRBs (Yu+, 2015). VODC 357 (2015).
- Zhang, B.-B. and A. von Kienlin: GRB 150424B: Fermi GBM detection. GCN Circ. 17753 (2015).
- Zhang, B.-B., A. von Kienlin and L.P. Singer: GRB 150512A: Fermi GBM detection. GCN Circ. 17811 (2015).

## Poster

- Alves, F. et al.: A Magnetized Prestellar Core: Polarization and Kinematics, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Alves, F. et al.: Center for Astrochemical Studies, Lange Nacht der Wissenschaften 2015, Garching, Germany, June 2015.
- Carpano, S. et al.: Screening and validation of EXTrAS data products, The first Scientific Conference dedicated to the Athena X-ray Observatory, Madrid, Spain, September 2015.
- Chacón-Tanarro, Ana et al.: Observational studies of pre-stellar cores and dust evolution just before star formation, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Choudhury, R. et al.: Astrochemistry as a probe of initial conditions of high-mass pre-stellar clumps, The 6th Zermatt ISM Symposium: Conditions and Impact of Star Formation From Lab to Space, Zermatt, Switzerland, September 2015.
- Choudhury, R. et al.: Chemical evolution in high-mass pre-stellar clumps: a MALT90 study, The Soul of High-Mass Star Formation Conference, Puerto Varas, Chile, March 2015.
- De Marco, B. et al.: X-ray Reverberation with Athena, Exploring the Hot and Energetic Universe: The first Scientific Conference dedicated to the Athena X-ray Observatory, Madrid, Spain, September 2015.
- Goto, M. et al.: Infrared Absorption Spectroscopy of NGC 7538 IRS 1 - H<sub>2</sub> and Co, The 6th Zermatt ISM Symposium Conditions and Impact of Star Formation From Lab to Space, Zermatt, Switzerland, September 2015.
- Graciá Carpio, J. et al.: The JScanam Map-Maker Method Applied to Herschel/PACS Photometer Observations, Astronomical Data Analysis Software and Systems (ADASS) conference: ADASS XXV, Sydney, Australia, October 2015.
- Hofmann, F. et al.: Galaxy Cluster Substructure Study with Chandra, SnowCluster 2015 - The Physics of Galaxy Clusters, Salt Lake City, United States, March 2015.
- van Dishoeck, E.F. et al.: Water in star-forming regions with Herschel, IAU General Assembly, Honolulu, USA, August 2015.
- von Kienlin, A.: Search for nuclear gamma-ray line emission from astrophysical sources in the GBM continuous spectral data - an update, Sixth International Fermi Symposium, Washington (DC), USA, November 2015.
- von Kienlin, A.: Using GRBs to cross-calibrate Fermi/GBM and INTEGRAL/SPI, Sixth International Fermi Symposium, Washington, DC, USA, November 2015.
- Laas, J. et al.: Improving Gas-Grain Models of Oxygen and Sulfur, COST Action Our Astrochemical History: First General Meeting, Prague, Czech Republic, May 2015.
- Laas, J. et al.: On the Sulfur Depletion: Toward a More Complete Gas/Grain Model, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Lippa, M. et al.: Astronomical Interferometry - Inelastic scattering effects in optical fibers, EIROforum School on Instrumentation, Garching, Germany, June 2015.
- Lippa, M. et al.: The GRAVITY Metrology System, VLTI Summer School, Cologne, Germany, September 2015.
- Lutz, D.: The far-infrared view of galaxy evolution: Status and questions, Exploring the universe with JWST, Noordwijk, The Netherlands, October 2015.
- Opitsch, M. et al.: The 2D Stellar and Gas Kinematics in the Central Region of M31, Frontiers of Stellar Spectroscopy in the Local Group and Beyond, Heidelberg, Germany, April 2015.
- Opitsch, M. et al.: The Detailed Stellar and Gas Kinematics in the Central Region of M31, A 3D View on Galaxy Evolution: from Statistics to Physics - MPIA Summer Conference 2015, Heidelberg, Germany, July 2015.
- Portail, M. et al.: Structure and dynamics of the Galactic Bulge and Bar, Gaia-ESO Survey Third Science Meeting, Vilnius, Lithuania, December 2015.
- Punanova, A. et al.: Deuterium Fractionation in the Taurus Molecular Cloud, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Sokolov, V. et al.: Probing the Evolutionary Stages of Infrared Dark Cloud Cores, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Spezzano, S. et al.: The deuteration of linear and cyclic C<sub>3</sub>H<sub>2</sub>, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Szűcs, L. et al.: Losing track of the time: the chemical clock of prestellar core evolution in hydrodynamic simulation, The 6th Zermatt ISM Symposium, Zermatt, Switzerland, September 2015.
- Vasilopoulos, G. et al.: Optical photometry of the low mass X-ray binary V404 Cyg during the June 2015 outburst. The 12th Hellenic Astronomical Conference, Thessaloniki, Greece, July 2015 .
- Yu, Hoi-Fung et al.: The Fermi GBM gamma-ray burst time-resolved spectral catalog: brightest bursts in the first four years, Sixth International Fermi Symposium, Washington D.C., U.S.A., November 2015.

## Vorträge

- Alves, F.: Multi-wavelength polarimetry as a tool for studying interstellar dust, contributed talk, Mini workshop on dust, Garching, Germany, June 2015.
- Alves, F.: Polarization studies in clouds and cores, invited talk, Chemical Diagnostics of Star and Planet Formation with Cycle 3 ALMA, Garching, Germany, January 2015.
- Alves, F.: Lupus 1: a young filament in a magnetized dynamical regime, contributed talk, Structure of filaments in molecular clouds and their relation to the star-formation processes, Munich, Germany, March 2015.
- Alves, F.: Starlight polarization of star-forming regions, invited talk, ISM Jam @ IAS (Institut d'Astrophysique Spatiale), Orsay, France, June 2015.
- Ballone, A.: Physics of the Galactic Center cloud G2, colloquium, ESO seminar, Santiago, Chile, November 2015.
- Ballone, A.: Physics of the Galactic Center cloud G2, colloquium, seminar at the Instituto de Astrofísica, Pontificia Universidad Católica, Santiago, Chile, November 2015.
- Ballone, A.: The nature and fate of G2: 3D hydrodynamical simulations of the compact source scenario, contributed talk, European Week of Astronomy and Space Science (EWASS) 2015, Tenerife, Spain, June 2015.
- Ballone, A.: The nature and fate of G2: 3D hydrodynamical simulations of the compact source scenario, contributed talk, From the First Quasars to Life-Bearing Planets, From Accretion Physics to Astrobiology, Annual meeting of the German Astronomical Society (AG) 2015, Kiel, Germany, September 2015.
- Becker, W.: An Interplanetary GPS Using Pulsar Signals, invited talk, Munich Satellite Navigation Summit, Munich, Germany, March 2015.
- Becker, W.: Autonomous Spacecraft Navigation with Pulsars, colloquium, Colloquium of the physics department of the Justus-Liebig-University Giessen, Giessen, Germany, January 2015.
- Becker, W.: Autonomous Spacecraft Navigation with Pulsars, invited talk, STARS2015 - Third Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics, Havana, Cuba, May 2015.
- Becker, W.: Der Stern von Bethlehem aus astronomischer Sicht, public talk, Weihnachtsvorlesung an der Ludwig-Maximilians Universität, Munich, Germany, December 2015.
- Becker, W.: Autonomous Spacecraft Navigation with Pulsars, invited talk, Workshop on High Performance Clocks in Space Science, Bern, Switzerland, December 2015.
- Berta, S.: Dust and Gas in high-z galaxies as seen by Herschel (and beyond) - testing our ignorance, contributed talk, MIAPP workshop: Star Formation History of the Universe, Garching, Germany, August 2015.
- Berta, S.: Dust and Gas in high-z galaxies as seen by Herschel (and beyond), contributed talk, Gas, Dust, and Star-Formation in Galaxies from the Local to Far Universe, Platanias, Crete (Greece), May 2015.
- Berta, S.: Properties of galaxies along/across the MS of star formation, contributed talk, MIAPP workshop: Star Formation History of the Universe, Garching, Germany, August 2015.
- Berta, S.: Testing our ignorance in measuring dust (gas) masses, contributed talk, Modelling galaxies through cosmic times, Cambridge, United Kingdom, September 2015.
- Berta, S.: The ALMA legacy of Herschel deep surveys, contributed talk, ALMA-Herschel archival workshop 2015, Garching, Germany, April 2015.
- Boller, Th.: 4MOST Survey Simulation and Survey Optimization, contributed talk, 4MOST All-Hands-Meeting, Cambridge, Great Britain, September 2015.
- Boller, Th.: Anfang und Ende des Universums, public talk, Rotary Club Munich Pullach, Munich, Germany, November 2015.
- Boller, Th.: Black Hole Imaging as GR tests for the pseudo-complex GR theory, invited talk, New Horizons in Physics, Makutsi Safari Farm, South Africa, November 2015.
- Boller, Th.: Dunkle Materie, Dunkle Energie, Die Entwicklung des Universums, public talk, Rotary Club Munich Level, Munich, Germany, April 2015.
- Boller, Th.: Unser Sonnensystem, public talk, OMG Gymnasium Neufahrn, Neufahrn, Germany, October 2015.
- Burkert, A.: Der Mond, public talk, Petershausen, Germany, January 2015.
- Burkert, A.: Galactic Gas Flows and the Surprising Inefficiency of Star Formation, colloquium; CfA, Harvard, Cambridge, USA, January 2015.
- Burkert, A.: Dark Matter Scaling Relations in Dwarf Spheroidal Galaxies, colloquium, CfA, Harvard, Cambridge, USA, January 2015.
- Burkert, A.: Urknall und Sternenstaub, public talk, Tournee: "Astronomy and Music" at four locations, Germany, February 2015.
- Burkert, A.: Die dunkle Seite des Universums, public talk, Cham, Germany, March 2015.
- Burkert, A.: Dark Matter Scaling Relations in Dwarf Galaxies, invited talk, Ringberg, Germany, April 2015.
- Burkert, A.: Fragmenting Filaments, invited talk, SPP Workshop, Freising, Germany, April 2015.
- Burkert, A.: Kometen, public talk, Petershausen, Germany, April 2015.
- Burkert, A.: Dwarf Galaxies, invited talk, MIAPP Workshop, Garching, Germany, May 2015.
- Burkert, A.: Watching a Tiny Gas Cloud on its Way into the Galactic Supermassive Black Hole, invited talk, ASTRON NAC Conference, Nunspeet, The Netherlands, May 2015.

- Burkert, A.: Physics of Self-Regulated Star Formation, colloquium, Vienna, Austria, May 2015.
- Burkert, A.: Massive Clumps in High-Redshift Galaxies, invited talk, IGM at 50, Spineto, Italy, June 2015.
- Burkert, A.: Glaube und Wissenschaft: Faszination Universum, public talk, Schoenblick, Germany, June 2015.
- Burkert, A.: Dark Matter Scaling Relations in Galaxies, invited talk, Santa Cruz Summer Workshop, Santa Cruz, USA, August 2015.
- Burkert, A.: Our Mysterious Moon, public talk, Lick Observatory, CA, USA, August 2015.
- Burkert, A.: Chemodynamical Models of Galaxy Formation, invited talk, Hensler Retirement Symposium, Vienna, Austria, September 2015.
- Burkert, A.: Unser geheimnisvoller Mond, public talk, Munich, Germany, October 2015.
- Burkert, A.: The Assembly of Galaxies, invited talk, ESTEC, Leiden, The Netherlands, October 2015.
- Burkert, A.: Schwarze Loecher: Im Strudel aus Raum und Zeit, public talk, Murnau, Germany, October 2015.
- Burkert, A.: Urknall und Sternenstaub, public talk, Tournee: "Astronomy and Music" at four locations, Germany, November 2015.
- Burkert, A.: Urknall und Sternenstaub, public talk, Bensheim, Germany, December 2015
- Burtscher, L.: A diversity of dusty tori – A very close look at Active Galactic Nuclei in the infrared, colloquium, Physics colloquium, Instituto de Fisica UFRGS, Porto Alegre, Brazil, Porto Alegre, Brazil, May 2015.
- Burtscher, L.: Obscuration in AGNs – Near-infrared luminosity relations and dust colors, contributed talk, TORUS 2015 conference, Winchester, Great Britain, September 2015.
- Burwitz, V.: AHEAD WP8 Joint Research Activity: Characterization of optics for next generation X-ray observatories, invited talk, AXRO 2015: International workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December 2015.
- Burwitz, V.: The eROSITA X-ray Telescope on the Spektr-Rentgen-Gamma (SRG) Mission, contributed talk, SPIE Optics and Photonics: UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XIX, San Diego, USA, August, 2015.
- Burwitz, V.: The eROSITA X-ray Telescope on the Spektr-Rentgen-Gamma (SRG) Mission: Calibrating the Mirrors and Detectors, invited talk, High Energy Astrophysics Today and Tomorrow, Moscow, Russia, December 2015.
- Caselli, P.: Astrochemistry and the first steps toward star and planet formation, colloquium, NRAO, Socorro, United States, November 2015.
- Caselli, P.: Astrochemistry and the first steps toward star and planet formation, colloquium, ETH Zurich, Astronomy Institute, Zurich, Switzerland, May 2015.
- Caselli, P.: Astrochemistry and the first steps toward star and planet formation, colloquium, INAF-Osservatorio Astronomico di Roma, Rome, Italy, March 2015.
- Caselli, P.: Astrochemistry and the first steps toward star and planet formation, colloquium, Max-Planck-Institute for Physics, Munich, Germany, May 2015.
- Caselli, P.: Astrochemistry with SOFIA, invited talk, Ringberg workshop of spectroscopy with the Stratospheric Observatory for Infrared Astronomy (SOFIA), Ringberg, Germany, March 2015.
- Caselli, P.: Chemistry in low-mass star forming regions, invited talk, 6th Zermatt ISM Symposium: conditions and impact of star formation from lab to space, Zermatt, Switzerland, September 2015.
- Caselli, P.: Herschel and ALMA synergy from the ISM to planet forming regions, invited talk, ALMA/Herschel archival workshop 2015, Garching, Germany, April 2015.
- Caselli, P.: Our astrochemical origins, contributed talk, New Mexico Symposium, Socorro, United States, November 2015.
- Caselli, P.: Our astrochemical origins, public talk, Max-Planck-Institute for Extraterrestrial Physics, Garching, Germany, June 2015.
- Caselli, P.: The inner 1000 AU of prestellar cores, contributed talk, Chemical diagnostics of star and planet formation with Cycle 3 ALMA, Garching, Germany, January 2015.
- Caselli, P.: Water, ammonia, methanol and complex molecules in the earliest phases of star formation, contributed talk, Focus meeting 15: Observation of water in the Universe, IAU XXIX general assembly, Honolulu, United States, August 2015.
- Clerc, N.: Galaxy cluster cosmology from X-ray surveys of the hot and energetic Universe, invited talk, XXIXth IAU General assembly - Focus Meeting 6: X-ray surveys of the hot and energetic cosmos, Honolulu, USA, August 2015.
- Davies, R.: Active and Inactive Galaxy Nuclei in the Near-Infrared, invited talk, XVII Advanced School on Astrophysics: 3D Spectroscopy & Spectral Synthesis, Sao Paulo, Brazil, November 2015.
- Davies, R.: An Observational Perspective on the Drivers of Torus Evolution, invited talk, Torus 2015, Winchester, UK, September 2015.
- Davies, R.: MICADO: science opportunities with the first light imager, invited talk, Early E-ELT Science: Spectroscopy with HARMONI, Oxford, UK, June 2015.
- Davies, R.: Resolved Stellar Populations with Visible Adaptive Optics on the VLT, contributed talk, ESO in the 2020s, Garching, Germany, January 2015.
- Davies, R.: Where do Seyferts get their Gas?, contributed talk, Let's Group: The life cycle of galaxies in their favorite environment, Garching, Germany, June 2015.
- De Marco, B.: Reverberation lags in black hole X-ray binaries, contributed talk, EWASS 2015, Tenerife, Spain, July 2015.
- De Marco, B.: Reverberation lags in black hole X-ray binaries, contributed talk, The Extremes of Black Hole Accretion, Madrid, Spain, June 2015.
- De Marco, B.: Reverberation lags in black hole X-ray bi-



naries, invited talk, From the Dolomites to event horizon: Sledging ledging down the Black Hole potential well, Sesto Val Pusteria, Italy, July 2015.

De Marco, B.: X-ray reverberation: a tool to unveil the inner regions of accreting black holes, colloquium, Astronomy group - University of Bristol, Bristol, UK, February 2015.

De Marco, B.: X-ray reverberation: a tool to unveil the inner regions of accreting black holes, colloquium, OPINAS group at MPE, Munich, Germany, March 2015.

De Marco, B.: X-ray reverberation: a tool to unveil the inner regions of accreting black holes, colloquium, SRON Netherlands Institute for Space Research, Utrecht, The Netherlands, February 2015.

Dennerl, K.: Observational Charge Exchange Challenges, invited talk, Charge Exchange X-rays in Current and Future Astrophysical Researches, Cambridge, USA, April 2015.

Dennerl, K.: The energy dependent pulse profiles of accreting magnetars, invited talk, The many faces of neutron stars: Neutron star magnetic fields, origin and evolution, magnetar physics (MIAPP), Garching, Germany, September 2015.

Dennerl, K.: X-ray imaging of solar system bodies, invited talk, Eighth International workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December 2015.

Dexter, J.: Event Horizon Scale Emission Models of Sagittarius A\*, colloquium, Radboud University Nijmegen, Nijmegen, Netherlands, June 2015.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, Max Planck Institute for Radio Astronomy, Bonn, Germany, September 2015.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, colloquium, University of Maryland, College Park, USA, November 2015.

Dexter, J.: Exploring Strong Gravity in the Galactic Center, invited talk, Fall meeting of the Astronomische Gesellschaft, Kiel, Germany, September 2015.

Dexter, J.: Imaging a Black Hole Shadow with the Event Horizon Telescope, colloquium, Paris Observatory, Paris, France, February 2015.

Dexter, J.: Missing Pulsars in the Galactic Center, colloquium, Harvard ITC, Cambridge, USA, November 2015.

Dexter, J.: Strong Gravity from Interferometric Observations of Sgr A\*, invited talk, 14th Marcell Grossmann Meeting, Rome, Italy, July 2015.

Dexter, J.: Visualizing and observing black hole event horizons, invited talk, Interdisciplinary cluster workshop on visualization hosted by Universe Cluster, Garching, Germany, November 2015.

Diehl, R.: Conference summary: Nuclear physics in astrophysics, invited talk, Intl. Conf. "Nuclear Physics in Astrophysics" VII, York, United Kingdom, May 2015.

Diehl, R.: First gamma rays from a SN Ia: SN2014J, invited talk, European Week of Astrophysics and Space Sci-

ence (EWASS), La Laguna, Tenerife/Spain, June 2015.

Diehl, R.: First gamma rays from a SN Ia: SN2014J, invited talk, Marcel Grossmann Conference on Relativistic Astrophysics, Rome, Italy, July 2015.

Diehl, R.: Lessons from observations of cosmic gamma rays, invited talk, Summer School on Experimental Nuclear Astrophysics, Santa Tecla, Italy, September 2015.

Diehl, R.: New insights about massive star groups, contributed talk, Research Day RA-G, Excellence Cluster "Origins and evolution of the Universe", Garching, Germany, July 2015.

Diehl, R.: New insights from cosmic gamma rays, colloquium, Florida State University, Tallahassee, FL, USA, Gainesville, USA, January 2015.

Diehl, R.: New insights from cosmic gamma rays, colloquium, Osservatore Astronomico de Trieste, Trieste, Italy, February 2015.

Diehl, R.: New insights from cosmic gamma rays, colloquium, Physics Department, University of Regensburg, Regensburg, Germany, July 2015.

Diehl, R.: New insights from cosmic gamma rays, colloquium, University of Florida, Gainesville, FL, USA, Gainesville, USA, January 2015.

Diehl, R.: New insights from cosmic gamma rays, invited talk, JINA Conference "Frontiers in Nuclear Astrophysics", East Lansing, USA, March 2015.

Diehl, R.: New insights from cosmic gamma rays, invited talk, Winter School on Nuclear Astrophysics, Russbach, Austria, March 2015.

Diehl, R.: New insights on SN Ia: Gamma-ray lines from SN2014J, invited talk, American Physics Society Conference, Baltimore, USA, April 2015.

Diehl, R.: Observational nuclear astrophysics, invited talk, University of Sao Paulo USP, Physics Department, Sao Paulo, Brazil, April 2015.

Diehl, R.: Origin and evolution of chemical elements: Overview Research Area G, invited talk, Science Week of the Excellence Cluster "Origin and evolution of the universe", Garching, Germany, December 2015.

Diehl, R.: Pair plasma in recent V404 Cygni observations, contributed talk, INTEGRAL Science Workshop, Rome, Italy, October 2015.

Diehl, R.: Radioactive ejecta surveys, contributed talk, MIAPP Workshop "The new milky way", Garching, Germany, May 2015.

Diehl, R.: Radioactive isotopes from cosmic nucleosynthesis: water-controlling heat sources?, invited talk, COSPAR Symposium "Water in the universe", Foz do Iguacu, Brazil, November 2015.

Diehl, R.: Telescopes for cosmic gamma rays, invited talk, Summer School on Experimental Nuclear Astrophysics, Santa Tecla, Italy, September 2015.

Diehl, R.: Tracing ejecta with gamma rays, invited talk, Research Day RA-F, Excellence Cluster "Origin and evolution of the Universe", Garching, Germany, July 2015.

- Diehl, R.: Wie kommt das Eisen in unser Blut?, public talk, Campus Talks, ARD-Alpha, Munich, Germany, October 2015.
- Eisenhauer, F.: Optical/IR Facilities, invited talk, Perspectives of Astrophysics in Germany 2015-2030, Potsdam, Germany, December 2015.
- Eisenhauer, F.: The Centre of the Milky Way, invited talk, ESO in the 2020s, Garching, Germany, January 2015.
- Endres, C.P.: Status report from the CAS laboratories at MPE, invited talk, Laboratory Astrophysics Workshop Heidelberg 2015, Heidelberg, Germany, October 2015.
- Förster Schreiber, N. M.: Galaxy Evolution at the Peak Epoch of Cosmic Star Formation: Insights from Spatially- and Spectrally-Resolved Studies, colloquium, Osservatorio Astrofisico di Arcetri, Florence, Italy, September 2015.
- Förster Schreiber, N. M.: Galaxy evolution at the peak epoch of cosmic star formation, invited talk, 1st Carnegie Searle Symposium: Understanding Nebular Emission in High-Redshift Galaxies, Pasadena, U.S.A., July 2015.
- Förster Schreiber, N. M.: Galaxy evolution at the peak epoch of cosmic star formation, invited talk, Early E-ELT Science: Spectroscopy with HARMONI, Oxford, United Kingdom, July 2015.
- Förster Schreiber, N. M.: Galaxy evolution at the peak epoch of cosmic star formation: Insights from Spatially- and Spectrally-Resolved Studies, invited talk, Annual Meeting of the Astronomische Gesellschaft: From the First Quasars to Life-Bearing Planets - From Accretion Physics to Astrobiology, Kiel, Germany, September 2015.
- Förster Schreiber, N. M.: Galaxy evolution from spatially and spectrally resolved studies: 3D-HST and IFUs synergies, invited talk, Census, Evolution, Physics, New Haven, U.S.A., November 2015.
- Förster Schreiber, N. M.: Galaxy evolution, invited talk, ESO in the 2020s, Garching, Germany, January 2015.
- Förster Schreiber, N. M.: Galaxy evolution, invited talk, Rainbows on the Southern Sky: the legacy value of ESO Public Survey and Large Programmes, Garching, Germany, October 2015.
- Förster Schreiber, N. M.: In-situ view of massive star-forming galaxies and their evolution at the peak epoch of cosmic star formation, invited talk, EWASS Symposium 3: Deconstructing Massive Galaxy Formation, La Laguna, Tenerife, Spain, June 2015.
- Förster Schreiber, N. M.: In-situ view of star-forming galaxies at cosmic noon, invited talk, IAU XXIX General Assembly Focus Meeting 7: Stellar Physics in Galaxies throughout the Universe, Honolulu, Hawaii, U.S.A., August 2015.
- Förster Schreiber, N. M.: Massive Galaxy Evolution at the Peak Epoch of Cosmic Star Formation: the Warm Gas and Stellar Perspective, colloquium, National Astronomical Observatory of Japan, Mitaka, Tokyo, Japan, April 2015.
- Fossati, M.: MUSE and KMOS sneek a peak at the role of environment across cosmic times, invited talk, Galaxy evolution and environment 4, Naples, Italy, December 2015.
- Fossati, M.: MUSE sneaks a peek at extreme ram pressure stripping events, invited talk, The Life and Death of Satellite Galaxies, Lorentz Center, Leiden, Netherland, May 2015.
- Fossati, M.: The growth of Galaxies at  $z = 1 - 2.5$ . A KMO-S<sup>3D</sup> perspective, contributed talk, GDSF: Gas, Dust and Star Formation, Chania, Greece, May 2015.
- Fossati, M.: The growth of star forming galaxies across environments and cosmic time. Results from KMOS<sup>3D</sup>, contributed talk, In the Footsteps of Galaxies: Tracing the Evolution of Environmental Effects, Soverato, Italy, September 2015.
- Fossati, M.: The role of environment on the growth of galaxies at  $z = 1 - 2.5$  from the KMOS<sup>3D</sup> survey, contributed talk, The Many Pathways to Galaxy Growth, Prato, Italy, June 2015.
- Friedrich, P.: Entwicklung einer Röntgenblende mit Hilfe von Lasertechnologie für das eROSITA Teleskop, public talk, 5. Technologie-Forum der LaserJob GmbH, Fürstfeldbruck, Germany, April 2015.
- Genzel, R.: Massereiche Schwarze Löcher und Galaxien, public talk, Open House Day „Lange Nacht der Wissenschaften“ (Long Night of Sciences), Garching, Germany, June 2015.
- Genzel, R.: Massive Black Holes and the Evolution of Galaxies, colloquium, Physics Colloquium, Goethe University, Frankfurt, Germany, December 2015.
- Genzel, R.: Testing the Massive Black Hole Paradigm in the Center of the Milky Way, invited talk, Conference "A Century of General Relativity - The 100th Anniversary of Einstein's Field Equations", Max Planck Institute for Gravitational Physics (Albert Einstein Institute), Berlin, Germany, December 2015.
- Genzel, R.: Angular Momenta, Baryon Fractions and Outflows in KMOS-3D/SINS Star Forming Disks at  $z=1-3$ , invited talk, Santa Cruz Galaxy Workshop, University of Santa Cruz, Santa Cruz, USA, August 2015.
- Genzel, R.: Eulogy of Charles Hard Townes, invited talk, CHT Memorial, Berkeley Congregational Church, Berkeley, USA, February 2015.
- Genzel, R.: Massereiche Schwarze Löcher – die gigantischen Zentren der Galaxien, invited talk, Urania e.V. Berlin, Berlin, Germany, December 2015.
- Genzel, R.: Massive Black Holes and the Evolution of Galaxies, invited talk, 26th Solvay Conference on Physics "Astrophysics and Cosmology" on "100 Years of General Relativity", Brussels, Belgium, November 2015.
- Genzel, R.: Massive Black Holes and the Evolution of Galaxies, invited talk, Poincaré Seminar, Henri Poincaré Institute, Paris, France, November 2015.
- Genzel, R.: Massive Black Holes, colloquium, Physics Colloquium, Technion - The Israel Institute of Technology, Haifa, Israel, April 2015.
- Genzel, R.: Massive Black Holes, invited talk, 100 Jahre Allgemeine Relativitätstheorie, ETH Zurich, Zurich, Switzerland, November 2015.

- Genzel, R.: Overview of MPE Infrared Research, invited talk, National Astronomical Observatory of Japan, Tokyo, Japan, March 2015.
- Genzel, R.: Star Forming Disk Galaxies at the Peak of Galaxy Formation, invited talk, "IGM at 50 – Is the Inter-galactic Medium Driving Star Formation?", Osservatorio Astrofisico di Arcetri, Spineto Abbey, Tuscany, Italy, June 2015.
- Genzel, R.: The Formation and Evolution of Massive Galactic Discs, invited talk, Prize Lecture, Harvey Prize in Science and Technology for the year 2014, Technion - The Israel Institute of Technology, Haifa, Israel, April 2015.
- Genzel, R.: The Formation and Evolution of Massive Star Forming Disk Galaxies, invited talk, IAU Symposium 319: "Galaxies at High Redshift and Their Evolution Over Cosmic Time", Honolulu, Hawaii, USA, August 2015.
- Genzel, R.: The Formation and Evolution of Massive Star Forming Disks, invited talk, Thomas Gold Lecture (Astronomy Colloquium), Ithaca, USA, October 2015.
- Genzel, R.: The Galactic Center Massive Black Hole, invited talk, DPG (German Physical Society) Spring Meeting, Fachverband Gravitation und Relativitätstheorie, Berlin, Germany, March 2015.
- Genzel, R.: The Galactic Center Massive Black Hole, invited talk, Symposium "Symmetries and Phases in the Universe", Irsee, Germany, June 2015.
- Genzel, R.: The Galactic Center Massive Black Hole, invited talk, Thomas Gold Lecture (Physics Colloquium), Ithaca, USA, October 2015.
- Genzel, R.: The Galactic Center: A Unique Laboratory for Studying Fundamental Physical Processes Near Black Holes, invited talk, ESO Workshop "Rainbows on the Southern Sky", Garching, Germany, October 2015.
- Genzel, R.: The Quest for the Massive Black Hole in the Galactic Center, and Why Charlie knew It All Along, invited talk, Symposium "Lasers, Light and Legacy" in Honor of Charles Townes, University of California, Berkeley, USA, August 2015.
- Genzel, R.: The formation and evolution of massive galactic disks, colloquium, Astronomy Seminar, Technion - The Israel Institute of Technology, Haifa, Israel, April 2015.
- George, E. M.: Detecting Echoes from the Dawn of Time, public talk, Chaos Communications Camp, Zehdenick, Germany, August 2015.
- Gerhard, O.: One Long Milky Way Bulge and Bar, contributed talk, Heraeus Workshop Reconstructing the Milky Way, Bad Honnef, Germany, June 2015.
- Gerhard, O.: Stellar Orbits and Angular Momentum in Early-Type Galaxy Halos, invited talk, ESO Workshop Baryons at Low Densities: the Stellar Halos around Galaxies, Garching, Germany, February 2015.
- Gerhard, O.: The Galactic Bulge - is there still a Bulge, or only a Buckling Instability?, invited talk, MIAPP Workshop The New Milky Way, Garching, Germany, May 2015.
- Gerhard, O.: The Galactic Bulge and Bar, invited talk, Chemical and Dynamical Evolution of the Milky Way and Local Group, Sexten Center for Astrophysics, Sesto, Italy, January 2015.
- Gerhard, O.: The Milky Way, the Galactic Halo, and the Halos of Galaxies, invited talk, IAU Symposium 317, The General Assembly of Galaxy Halos: Structure, Origin, and Evolution, Honolulu, Hawaii, USA, August 2015.
- Gerhard, O.: The new Milky Way Bulge and Bar, colloquium, Mount Stromlo Obs., Austr. Nat. Univ., Canberra, Australia, November 2015.
- Gerhard, O.: The new Milky Way Bulge and Bar, colloquium, Sydney Inst. f. Astrophysics, Sydney, Australia, November 2015.
- Gerhard, O.: The new Milky Way Bulge and Bar, contributed talk, 3rd Gaia-ESO Science Meeting, Vilnius, Lithuania, December 2015.
- Gerhard, O.: The new Milky Way Bulge and Bar, invited talk, Excellence Cluster Science Week, Garching, Germany, November 2015.
- Gerhard, O.: The new Milky Way, colloquium, Univ of California Los Angeles, Los Angeles, USA, August 2015.
- Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße?, public talk, Astronomische Gesellschaft Buchloe, Buchloe, Germany, September 2015.
- Gillessen, S.: Feuerwerk um das Schwarze Loch im Zentrum der Milchstraße?, public talk, Sternwarte Gondelsheim, Gondelsheim, Germany, September 2015.
- Gillessen, S.: Sgr A\* in the near-infrared, invited talk, EWASS 2015, La Laguna / Teneriffa, Spain, May 2015.
- Gillessen, S.: The Galactic Center: A stellar ballet and a gaseous scherzo, invited talk, Marcel Grossmann Meeting XIV, Rome, Italy, July 2015.
- Gillessen, S.: The Galactic Center - a unique astrophysical laboratory, colloquium, The Hebrew University of Jerusalem, Jerusalem, Israel, November 2015.
- Gillessen, S.: The Galactic Center - a unique astrophysical laboratory, colloquium, Universität Wuppertal, Wuppertal, Germany, December 2015.
- Gillessen, S.: The Galactic Center - a unique astrophysical laboratory, invited talk, 28th Texas Symposium on Relativistic Astrophysics, Geneva, Switzerland, December 2015.
- Gillessen, S.: The gas cloud G2 on its way around Sgr A\* - an update -, invited talk, Black Holes in Dense Star Clusters, Aspen Center for Physics, Aspen, US, January 2015.
- Gillessen, S.: The power of astrometry in the Galactic Center, invited talk, Gaia for AGN and extragalactic science, GAGNES colloquium, Paris, France, July 2015.
- Gillessen, S.: The tidal disruption of the gas cloud G2 in the Galactic Center, invited talk, Jerusalem TDE Workshop, Jerusalem, Israel, November 2015.
- Gillessen, S.: World of Stars, public talk, Queen Eleanor Primary school, Northampton, UK, March 2015.
- Goto, M.: Protoplanetary disks in the E-ELT era, invited talk, Science and Technology with E-ELT International

- PhD School "F. Lucchin": Science and Technology with E-ELT XIV Cycle II Course, Sicily, Italy, October 2015.
- Grieb, J.N.: Anisotropic Clustering Measurements using Fourier Space Wedges and the status of the BOSS DR12 analysis, contributed talk, Corfu Summer Institute "Particles and the Universe" (TRR33 Corfu Workshop), Corfu, Greece, September 2015.
- Grieb, J.N.: Anisotropic Clustering Measurements using Fourier Space Wedges and the status of the BOSS DR12 analysis, contributed talk, Theoretical and Observational Progress on Large-scale Structure of the Universe (ESO, Garching), Garching, Germany, July 2015.
- Haberl, F.: Observations of proton cyclotron lines, invited talk, The many faces of neutron stars, Garching, Germany, September 2015.
- Haerendel, G.: Rosetta, erste Landung auf einem Kometen und was das MPE dazu beigetragen hat, colloquium, MPE, Garching, Germany, January 2015.
- Haerendel, G.: Electron acceleration in auroras and application to the sun, invited talk, ISSI Team on "Magnetic Waves in Solar Flares: Beyond the Standard Flare Model", ISSI, Bern, Switzerland, February 2015.
- Haerendel, G.: Raumsonde Rosetta: Verabredung mit einem Kometen, public talk, Ballonmuseum Gersthofen, Gersthofen, Germany, April 2015.
- Haerendel, G.: Rosetta und Philae: Begleitung und Besuch eines Kometen, public talk, Physik Modern, Ludwig-Maximilians-Universität, München, Germany, May 2015.
- Haerendel, G.: Interrelationship between electrostatic acceleration in the aurora and in solar flares, invited talk, IPELS 2015, Pitlochry, Scotland, August 2015.
- Haerendel, G.: Overcoming uncertainties in the relation between source and aurora, invited talk, Unsolved Problems in Magnetospheric Physics, Scarborough, UK, September 2015.
- Haerendel, G.: Fifty years of substorm research and its prospects, invited talk, 50th Anniversary of the Space Research Institute, Russian Academy of Sciences, IKI Moscow, Russia, October 2015.
- Haerendel, G.: Current sheet avalanche and substorm breakup, colloquium, Mullard Space Science Laboratory, UK, October 2015.
- Haerendel, G.: Kometenschweife, Polarlicht, Protuberanzen: Magnetische Kräfte formen faszinierende Gebilde im All, public talk, Österreichische Akademie der Wissenschaften, Wien, Austria, November 2015.
- Herrera Camus, R.: The [CII] 158  $\mu\text{m}$  and [NII] 205  $\mu\text{m}$  transitions as star formation tracers, contributed talk, Gas, Dust, and Star-Formation in Galaxies from the Local to Far Universe, Chania, Crete, Greece, May 2015.
- Hocuk, S.: Chemical interplay in dusty clouds, colloquium, Jet Propulsion Labs (JPL), Pasadena, USA, July 2015.
- Hocuk, S.: Gas-ice chemical interplay in interstellar clouds, contributed talk, 30 Years of Photodissociation Regions, Asilomar, USA, July 2015.
- Hocuk, S.: The role of ices in star-forming clouds, contributed talk, Conditions and Impact of Star Formation: From Lab to Space, Zermatt, Switzerland, September 2015.
- Hocuk, S.: The temperature of interstellar dust, colloquium, Kapteyn Astronomical Institute, Groningen, Netherlands, November 2015.
- Ivlev, A.: Impulsive Spot Heating and Thermal Explosion of Interstellar Grains Revisited, contributed talk, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Ivlev, A.: Statistical mechanics for nonreciprocal forces, invited talk, XXXV Dynamics Days Europe 2015, Exeter, England, September 2015.
- Ivlev, A.: Statistical mechanics where Newton's third law is broken, invited talk, 14th Workshop on the Physics of Dusty Plasmas, Auburn, USA, May 2015.
- Ivlev, A.: Two-dimensional complex plasmas: Equilibrium and non-equilibrium phenomena, invited talk, FISMAT 2015, Palermo, Italy, September 2015.
- Kanbach, G.: COS-B Mission Results, invited talk, COS-B 40th Reunion, ESTEC, Noordwijk, Netherlands, August 2015.
- Klecker, B.: Energetic particle ionic charge states: a clue to their sources and acceleration, colloquium, Swedish Institute of Space Physics (IRF), Kiruna, Sweden, March 2015.
- Klecker, B.: Solar energetic particles in the inner heliosphere, colloquium, Swedish Institute of Space Physics (IRF), Kiruna, Sweden, March 2015.
- Klecker, B.: The ionic charge of energetic particles in interplanetary space: a clue to their sources and acceleration, colloquium, Hefei University of Technology, Hefei, China, November 2015.
- Klecker, B.: Solar energetic particle ionic charge determination: direct and indirect methods, colloquium, National Space Science Center, Beijing, China, November 2015.
- Krause, M.G.H.: Deciphering the ISM around the Scorpius-Centaurus OB Association, contributed talk, ISM-SPP workshop, Freising, Germany, 30 April 2015.
- Krause, M.G.H.: Gas expulsion in massive star clusters, invited talk, ISSI Team meeting "Massive star clusters across the Hubble time", International Space Science Institute, Bern, Switzerland, Bern, Switzerland, 17 June 2015.
- Krause, M.G.H.: The fate of massive star ejecta, contributed talk, "INTEGRAL 2015: The New High Energy Sky after a Decade of Discoveries", conference held in Rome, Rome, Italy, 8 October 2015.
- Krause, M.G.H.: 3D Magnetohydrodynamics Simulations of Cluster Radio Sources, contributed talk, "ICM Physics and Modelling", MPA, Garching, Garching, Germany, 16 June 2015.
- Krause, M.G.H.: Galactic-scale feedback: a symphony for the superbubble orchestra and the AGN solo player, colloquium, University of Hertfordshire, Hatfield, UK, 27 November 2015.
- Krause, M.G.H.: Star clusters & superbubbles, colloquium,

- um, Sterrewacht Leiden, Netherlands, Leiden, Netherlands, 28 October 2015.
- Lin, Ming-Yi: Thick Disks of Dense Gas around the Nuclei of Nearby Seyfert Galaxies, contributed talk, Academia Sinica Institute of Astronomy and Astrophysics (ASIAA), Taipei City, Taiwan, October 2015.
- Lutz, D.: Wide spread AGN driven nuclear outflows in  $z \sim 1-2$  massive star-forming galaxies, contributed talk, Unveiling the Galaxy - AGN evolution connection, Puerto Varas, Chile, March 2015.
- Müller T.G.: (99942) Apophis - A threat to the Earth?, colloquium, Planetary Group Seminar, MPS Göttingen, Göttingen, Germany, February 2015.
- Müller T.G.: 162173 Ryugu (1999 JU3): Searching for the object's spin-axis orientation, invited talk, Hayabusa2 Science Team Meeting, Tokyo, Japan, December 2015.
- Müller T.G.: Asteroids in the thermal infrared, colloquium, Astronomical Observatory of Adam Mickiewicz University, Poznan, Poland, November 2015.
- Müller T.G.: Exotische Welten: Asteroiden, Kometen, Planeten und Exoplaneten, public talk, Lange Nacht der Wissenschaften, Garching, Germany, June 2015.
- Müller T.G.: Faszination Sonnensystem: Von kleinen Körpern und exotischen Welten, public talk, Robert-Mayer-Sternwarte Heilbronn, Heilbronn, Germany, November 2015.
- Müller T.G.: Franken im Weltall, public talk, Markt Stadtlauringen, Birnfeld, Germany, April 2015.
- Müller T.G.: Herschel - Eine Bilanz, public talk, Planetarium am Insulaner, Berlin, Berlin, Germany, February 2015.
- Müller T.G.: Herschel Survey of the Trans-Neptunian Population, invited talk, XXIX IAU General Assembly, FM9, Honolulu, Hawaii, USA, August 2015.
- Müller T.G.: Latest excitement on icy Solar System bodies: TNO Varuna, contributed talk, MPE IR group retreat, Ringberg, Germany, December 2015.
- Müller T.G.: TNOs are Cool: A Herschel survey of the trans-Neptunian region, colloquium, CAS group seminar, Garching, Germany, October 2015.
- Müller T.G.: TNOs are Cool: A Herschel survey of the trans-Neptunian region, colloquium, ESA Scientific Support Office Seminar, ESTEC, Noordwijk, The Netherlands, September 2015.
- Müller T.G.: Zwischen den Planeten: Von Asteroiden und Kometen, public talk, Regiomontanus-Sternwarte Nürnberg, Nürnberg, Germany, October 2015.
- Mantovani, Giulia: Relativistic Fe K $\alpha$  line study in Seyfert 1 galaxies observed with SUZAKU, contributed talk, The Extremes of Black Hole Accretion, Madrid, Spain, June 2015.
- Meidinger, N.: Development of the Wide Field Imager for ATHENA, contributed talk, SPIE Optics and Photonics: UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XIX, San Diego, USA, August.
- Meidinger, N.: WFI Instrument Development Status, invited talk, WFI Proto-Consortium Meeting, Leicester, Great Britain, June 2015.
- Meidinger, N.: WFI Instrument Project Overview, invited talk, WFI Proto-Consortium Meeting, Leicester, Great Britain, June 2015.
- Meidinger, N.: WFI Status, invited talk, ATHENA WORKING GROUP MEETING, Bologna, Italy, February 2015.
- Meidinger, N.: Wide Field Imager for Athena, invited talk, Athena conference, Madrid, Spain, September 2015.
- Meidinger, N.: X-ray detectors with high temporal resolution suitable for pulsar navigation, invited talk, 593. WE-Heraeus-Seminar on Autonomous Spacecraft Navigation - New Concepts, Technologies & Applications for the 21st Century, Bad Honnef, Germany, June 2015.
- Menz, B.: A Fresnel Zone Plate Collimator; Potential and Aberrations, contributed talk, SPIE Optics and Photonics: UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XIX, San Diego, USA, August 2015.
- Menz, B.: A large area X-ray collimator for ATHENA, invited talk, AXRO 2015: International workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December 2015.
- Menzel, M.-L.: A spectroscopic Survey of X-ray selected AGN in the XMM-XXL field, contributed talk, Multi-Object Spectroscopy in the next Decade, La Palma, Spain, March 2015.
- Menzel, M.-L.: AGN-Forecast for eROSITA and pre-SPIDERS science in the XMM-XXL field, contributed talk, SDSS-IV Collaboration Meeting, Madrid, Spain, July 2015.
- Merloni, A.: AGN and Galactic Nuclei, invited talk, RDS Workshop: Perspectives of Astrophysics in Germany 2015-2030, Potsdam, Germany, December 2015.
- Merloni, A.: Massive Spectroscopic surveys of X-ray selected AGN and Clusters: from SPIDERS to 4MOST, invited talk, Multi-Object Spectroscopy in the Next Decade: Big Questions, Large Surveys and Wide Fields, La Palma, Spain, March 2015.
- Merloni, A.: SDSS J0159+0033: a luminous tidal disruption flare in a massive galaxy?, invited talk, From the Dolomites to the event horizon, Sexten, Italy, July 2015.
- Merloni, A.: SPIDERS, invited talk, SDSS-IV Collaboration Meeting, Madrid, Spain, July 2015.
- Merloni, A.: eROSITA: a global view of the hot Universe, colloquium, IoA, Cambridge, UK, February 2015.
- Merloni, A.: eROSITA: a global view of the hot Universe, invited talk, INTEGRAL Workshop: The New High Energy Sky after a Decade of Discoveries, Rome, Italy, November 2015.
- Nandra, K.: Athena Mission status, invited talk, WFI Consortium Meeting, Leicester, UK, June, 2015.
- Nandra, K.: The growth of supermassive black holes, invited talk, Symposium "Symmetries and Phases in the Universe", Kloster Irsee, Germany, June, 2015.
- Nandra, K.: eROSITA: The next-generation all-sky X-ray survey, invited talk, IAU Conference, Honolulu, USA, August 2015.

- Nandra, K.: Athena: Scientific Activities in the Study Phase, invited talk, Exploring the Hot and Energetic Universe: The first scientific conference dedicated to the Athena X-ray observatory, Madrid, Spain, September 2015.
- Nandra, K.: Supermassive Black Hole Growth and its Evolution, invited talk, Demographics and environment of AGN from multi-wavelength surveys, conference, Chania, Greece, September 2015.
- Nandra, K.: eROSITA: Cluster Cosmology with the next-generation all-sky X-ray survey, invited talk, Cluster Cosmology Meeting at the Royal Astronomical Society, London, UK, December 2015.
- Opitsch, M.: The Detailed Stellar and Gas Kinematics in the Central Region of M31, contributed talk, Southern Cross Astrophysics Conference Series VIII: Multiwavelength Dissection of Galaxies, Sydney, Australia, May 2015.
- Opitsch, M.: The Unusual Morphology and Kinematics of the Gas in the Central Regions of M31, contributed talk, Dissecting Galaxies Near and Far: High Resolution Views of Star Formation and the ISM, Santiago, Chile, March 2015.
- Orban de Xivry, G.: Commissioning progress of ARGOS, the laser guide star ground-layer AO system at LBT, colloquium, ESO System Engineering Lunch Talk, Garching, Germany, March 2015.
- Orban de Xivry, G.: Commissioning progresses & first on-sky closed-loop of the GLAO system ARGOS, contributed talk, AO data processing workshop, Marseille, France, May 2015.
- Pon, A.: Evidence for Turbulent Dissipation in Molecular Clouds, invited talk, Chemical Diagnostics of Star and Planet Formation with Cycle 3 ALMA MPE/MPIA Workshop, Garching, Germany, January 2015.
- Pon, A.: Observations of Turbulence Dissipating in Giant Molecular Clouds, colloquium, Max Planck Institute for Astrophysics, Heidelberg, Germany, July 2015.
- Pon, A.: Observations of Turbulence Dissipating in Giant Molecular Clouds, colloquium, NRC-HIA, Victoria, Canada, June 2015.
- Pon, A.: Observations of Turbulence Dissipating in Low Velocity Shocks in the Perseus B1-E5 Starless Core, contributed talk, AAS 225, Seattle, USA, January 2015.
- Pon, A.: Shocks and Superbubbles, colloquium, University of Vienna, Vienna, Austria, May 2015.
- Pon, A.: The Dissipation of Turbulence in Low Velocity Shocks, contributed talk, Structure of Filaments in molecular clouds and their relation to the star-formation processes, Munich, Germany, March 2015.
- Portail, M.: Dynamical models of the Galactic Bulge based on survey data, contributed talk, ESO conference "Rainbows on the Southern Sky", Garching, Germany, October 2015.
- Portail, M.: Structure and dynamics of the Galactic bulge, contributed talk, Excellence Cluster Research Area F Science day, Garching, Germany, July 2015.
- Proserpio, L.: Indirect slumping technology development at MPE for the manufacturing of X-ray optics, contributed talk, 8th International Workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December 2015.
- Pulsoni, C.: The extended Planetary Nebulae Spectrograph (PN.S) early-type galaxy survey - velocity fields at large radii from planetary nebulae, contributed talk, Rainbows on the Southern Sky: science and legacy value of the ESO, Public Surveys and Large Programmes, Garching, Germany, October 2015.
- Rabien, S.: First Results of the Ground Layer Adaptive Optics System ARGOS, contributed talk, AO4ELT4, Lake Arrowhead, USA, October 2015.
- Rau, A.: GROND and eROSITA, contributed talk, eROSITA Consortium Meeting, Bamberg, Germany, October 2015.
- Rau, A.: Science Requirements for the WFI, contributed talk, WFI Proto-Consortium Meeting, Leicester, UK, July 2015.
- Rau, A.: WFI Activities in Phase A, contributed talk, X-IFU Consortium Meeting, Toulouse, France, October 2015.
- Rosario, D. J.: Unveiling the AGN/galaxy evolution connection with deep extragalactic far-IR surveys, invited talk, Unveiling the AGN-Galaxy Evolution Connection, Puerto Varas, Chile, March 2015.
- Rosario, D. J.: The Herschel Perspective on the growth of supermassive black holes, colloquium, UFRGS, Porto Alegre, Brazil, March 2015.
- Salazar-Albornoz, S.: Clustering Tomography on the final BOSS DR12 galaxy sample, contributed talk, MPA/ESO/MPE/EXC Joint Conference on "Theoretical and Observational Progress on Large-scale Structure of the Universe", Garching, Germany, July 2015.
- Salvato, M.: The eROSITA All-Sky Survey and its spectroscopic follow-up, invited talk, Demographics and environment of AGN from multi-wavelength surveys, Chania, Greece, September 2015.
- Salvato, M.: Multiwavelength cross-correlation methods, invited talk, ARCHES:X-ray surveys with advanced multi-wavelength cross-identification methods, Paris, France, November 2015.
- Salvato, M.: The (AGN)pre-eROSITA era: ROSAT-revisited and SPIDERS, invited talk, Demographics and environment of AGN from multi-wavelength surveys, Chania, Greece, September 2015.
- Salvato, M.: The pre-eROSITA era: ROSAT-revisited and SPIDERS, contributed talk, Unveiling the AGN/Galaxy Evolution Connection, Puerto Varas, Chile, March 2015.
- Salvato, M.: AGN science in the era of all-sky surveys (... or so), colloquium, Universita' di Bologna, Bologna, Italy, October 2015.
- Salvato, M.: The eROSITA All-Sky Survey and its spectroscopic follow-up, invited talk, IAU Symposium 319: Galaxies at High Redshift and their Evolution over Cosmic Time, Honolulu, Hawaii, USA, August 2015.
- Sanchez, A.G.: Full-shape analysis of galaxy clustering

- measurements in BOSS DR12, invited talk, Max Planck Institute for Astrophysics, Garching, Germany, April 2015.
- Sanchez, A.G.: A roadmap for covariance matrix estimation, invited talk, Galaxy clustering within Euclid OULE3, Sexten, Italy, July 2015.
- Sanchez, A.G.: Anisotropic galaxy clustering measurements in BOSS, invited talk, Theoretical and Observational Progress on large-scale structure of the Universe, Garching, Germany, July 2015.
- Sanchez, A.G.: Estimating the precision of precision matrix estimates, contributed talk, Euclid Science Collaboration Meeting, Lausanne, Switzerland, June 2015.
- Sanchez, A.G.: Cosmological implications of the final BOSS galaxy samples, colloquium, University observatory LMU, Munich, Germany, May 2015.
- Sanders, J.S.: Athena: the future of X-ray cluster astronomy, contributed talk, A critical assessment of cluster cosmology, London, UK, December 2015.
- Sanders, J.S.: Studying AGN feedback in X-ray observations of groups and clusters, invited talk, Let's group. The life cycle of galaxies in their favourite environment, Garching, Germany, June 2015.
- Sanders, J.S.: Studying AGN feedback in galaxy clusters and groups with Athena, invited talk, Exploring the Hot and Energetic Universe: The first Scientific Conference dedicated to the Athena X-ray Observatory, Madrid, Spain, September 2015.
- Schruba, A.: Molecular Gas and Star Formation from Galaxy to Sub-Cloud Scale in Andromeda, contributed talk, Gas, Dust, and Star-Formation in Galaxies from the Local to Far Universe, Plataniass-Chania, Greece, May 2015.
- Schruba, A.: Properties of the Molecular Gas and Star Formation Process in Andromeda, contributed talk, Lifecycle of gas in galaxies: A Local Perspective, Dwingeloo, Netherlands, September 2015.
- Schruba, A.: Star Formation in an Lstar Galaxy: A Detailed Study of the Andromeda Galaxy, contributed talk, A 3D View on Galaxy Evolution: from Statistics to Physics, Heidelberg, Germany, July 2015.
- Schruba, A.: Linking the Galaxy's Star Formation Process to Molecular Cloud Properties, colloquium, Astronomisches Rechen-Institut, Zentrum für Astronomie der Universität Heidelberg, Heidelberg, Germany, October 2015.
- Schweyer, T.: Astrobo: Towards a new observatory control system for the Garching Observatory 0.6m, contributed talk, Fourth Workshop on Robotic Autonomous Observatories, Torremolinos, Spain, September 2015.
- Siegert, T.: Gamma-ray line diagnostics of supernova explosions – Cas A and SN2014J, contributed talk, Nuclear Physics in Astrophysics VII, York, United Kingdom, May 2015.
- Siegert, T.: Positron Annihilation in the Milky Way, contributed talk, INTEGRAL Workshop 2015 - The New High Energy Sky after a Decade of Discoveries, Rome, Italy, October 2015.
- Sipilä, O.: Spin-state chemistry of deuterated ammonia, contributed talk, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- Sokolov, V.: Deuterium fractionation tracing the evolution of IRDC cores, contributed talk, Soul of High-Mass Star Formation, Puerto Varas, Chile, March 2015.
- Sturm, E.: PDRs in Starburst and (U)LIRG environments, invited talk, 30 Years of Photodissociation Regions, Monterey, USA, June 2015.
- Szűcs, L.: A benchmark of CO emission as molecular cloud mass indicator, contributed talk, 30 years of Photo-Dissociation Regions, Asilomar, Pacific Grove, USA, June 2015.
- Tacconi, L.J.: Galaxy Assembly and Dynamics at the Peak Epoch of Cosmic Star Formation, colloquium, Physics Department, University of Bonn, Bonn, Germany, July 2015.
- Tacconi, L.J.: Molecular Gas, Star Formation and Galaxy Dynamics from  $z=2.5$  to the Present, colloquium, Astronomy Department, Durham University, Durham, United Kingdom, May 2015.
- Tacconi, L.J.: Molecular Gas, Star Formation and Galaxy Dynamics from  $z=2.5$  to the Present, colloquium, Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom, November 2015.
- Tacconi, L.J.: Molecular Gas, Star Formation and Galaxy Dynamics from  $z=2.5$  to the Present, invited talk, The 6th Zermatt ISM Symposium, Zermatt, Switzerland, September 2015.
- Tacconi, L.J.: NOEMA: Northern Extended Millimeter Array, Project Update, invited talk, NAOJ/IoA-MPE strategy meeting, Mitaka, Japan, April 2015.
- Tacconi, L.J.: Star Formation and Gas Scaling Relations from  $z=2.5$  to the Present, invited talk, 2015 Santa Cruz Galaxy Workshop, Santa Cruz, California, USA, August 2015.
- Tacconi, L.J.: Star Formation and Gas Scaling Relations from  $z=2.5$  to the Present, invited talk, IGM@50 Conference, Spineto, Italy, June 2015.
- Tacconi, L.J.: The Evolution of Molecular Gas and Star Formation: The Peak Epoch of Galaxy Formation to the Present, colloquium, Institute of Astronomy, Tokyo University, Mitaka, Japan, April 2015.
- van Dishoeck, E.F.: Alexander Dalgarno's contributions to astrochemistry, invited talk, From clouds to protoplanetary disks: the astrochemical link, Berlin, Germany, October 2015.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars (Albert Einstein award lecture), colloquium, University of Dundee, Dundee, UK, November 2015.
- van Dishoeck, E.F.: Building stars, planets and the ingredients for life between the stars (Sir Robert Wilson lecture), colloquium, University College London, London, UK, December 2015.
- van Dishoeck, E.F.: Chemistry and the physical structure of disks, invited talk, Star- and Planet Formation in the Southwest conference, Tucson, USA, March 2015.

- van Dishoeck, E.F.: Chemistry of volatiles from cores to disks and comets, invited talk, Gordon conference Origins of solar systems, Mount Holyoke, USA, June 2015.
- van Dishoeck, E.F.: Complex organic molecules in star-forming regions: sweet results from ALMA, invited talk, Carbon in the Galaxy, American Chemical Society symposium, Denver, USA, March 2015.
- van Dishoeck, E.F.: From cores to disks and comets: science with APEX, colloquium, Apex, San Pedro de Atacama, Chile, December 2015.
- van Dishoeck, E.F.: IAU Division H overview, invited talk, IAU General Assembly, Division H meeting, Honolulu, USA, August 2015.
- van Dishoeck, E.F.: Photodissociation in astrophysics: introduction, invited talk, Photodissociation in astrophysics workshop, Oegstgeest, Netherlands, February 2015.
- van Dishoeck, E.F.: Probing the embedded phase of star formation with JWST spectroscopy, contributed talk, Exploring the universe with JWST, Noordwijk, Netherlands, October 2015.
- van Dishoeck, E.F.: Revealing planetary construction zones in transitional disks, colloquium, Joint ALMA Office, Santiago, Chile, December 2015.
- van Dishoeck, E.F.: Summary discussion, invited talk, Transitional disks and planet formation Lorentz Center workshop, Leiden, Netherlands, March 2015.
- van Dishoeck, E.F.: The CO ladder from low- to high-mass protostars, contributed talk, IAU General Assembly, IAU Symposium 315, Honolulu, USA, August 2015.
- van Dishoeck, E.F.: The molecular trail from clouds to stars and planets (Woltjer award lecture), invited talk, EWASS 2015, Tenerife, Spain, June 2015.
- van Dishoeck, E.F.: The molecular universe: from observations to laboratory and back, invited talk, IAU General Assembly, Focus meeting 12, Honolulu, USA, August 2015.
- van Dishoeck, E.F.: Water and ice in the universe: from clouds to planets, invited talk, Water in the universe, 2nd COSPAR Symposium, Foz do Iguacu, Brazil, November 2015.
- van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA, colloquium, ASTRON, Dwingeloo, Netherlands, September 2015.
- van Dishoeck, E.F.: Zooming into planet-forming zones of disks: sweet results from ALMA, colloquium, IAP, Paris, France, October 2015.
- Vilenius, E.: The diverse properties of trans-Neptunian objects, colloquium, ESO Stellar coffee and planetary tea, Garching, Germany, January 2015.
- Wegg, C.: Microlensing constraints on the mass profiles of the Milky Way's disk and dark matter halo invited talk, Excellence Cluster RA-E Research Day "What is the nature of dark matter and cosmic acceleration?", Munich, Germany, October 2015.
- Wegg, C.: The Structure and Dynamics of the Inner 5kpc of the Milky Way, contributed talk, EWASS 2015, La Laguna / Teneriffa, Spain, June 2015.
- Wegg, C.: The structure of the Milky Way bar and bulge from photometric surveys, contributed talk, Rainbows on the Southern Sky: science and legacy value of the ESO Public Surveys and Large Programmes, Munich, Germany, October 2015.
- Wen, M.: Indirect slumping technology development at MPE for the manufacturing of X-ray optics, contributed talk, 8th International Workshop on Astronomical X-Ray Optics, Prague, Czech Republic, December 2015.
- Wilman, D.J.: A more detailed picture of environmental effects with new ESO instrumentation, invited talk, In the Footsteps of Galaxies: Tracing the Evolution of Environmental Effects, Soverato, Italy, September 2015.
- Wilman, D.J.: An inside-out growth and outside-in truncation of star-forming disks? Testing the role of star-formation driven size growth with resolved H $\alpha$  maps from KMOS<sup>3D</sup> and HAGGIS at z=0-2.5, contributed talk, The Many Pathways to Galaxy Growth, Prato, Italy, May 2015.
- Wilman, D.J.: Resolved H $\alpha$  maps and profiles from KMOS<sup>3D</sup> and HAGGIS at z=0-2.6: Painting a picture of growth and quenching, colloquium, ICG, University of Portsmouth, ICG, University of Portsmouth, UK, June 2015.
- Wilman, D.J.: Satellite Quenching, invited talk, The Life and Death of Satellite Galaxies, Leiden, Netherlands, April 2015.
- Wilman, D.J.: The size growth and truncation of star forming galaxy disks in massive halos at z=0-2.5: Evidence from KMOS<sup>3D</sup> and HAGGIS, contributed talk, Let's Group. The Life-cycle of galaxies in their favourite environment, Garching, Germany, May 2015.
- Wisnioski, E.: KMOS<sup>3D</sup> - The evolution of resolved kinematics and star-formation from z=0.7-2.7, colloquium, Max Planck Institute for Astrophysics, Heidelberg, Germany, August 2015.
- Wisnioski, E.: KMOS<sup>3D</sup> - The evolution of resolved kinematics and star-formation from z=0.7-2.7, invited talk, Science with MOS: towards the E-ELT era, Cefalu, Italy, September 2015.
- Wisnioski, E.: Tracing high-z galaxy kinematics - evolution of turbulent disks to quenched spheroids, invited talk, Consensus, Evolution, Physics with 3D-HST, New Haven, USA, November 2015.
- Wisnioski, E.: Tracing high-z galaxy kinematics - evolution of turbulent disks to quenched spheroids, invited talk, The Many Pathways to Galaxy Growth, Prato, Italy, May 2015.
- Wuyts, E.: Galaxy evolution studies with KMOS, contributed talk, Star Formation History of the Universe, Munich, Germany, August 2015.
- Wuyts, E.: The evolution of galaxy abundances from z=2.6 to z=0.8, contributed talk, AG Splinter Meeting: Science with the LBT, Kiel, Germany, September 2015.
- Wuyts, E.: The evolution of metallicity and metallicity gradients from z=2.7 to 0.6 with KMOS<sup>3D</sup>, contributed talk,



Consensus, Evolution, Physics with 3D-HST, New Haven, USA, November 2015.

Wuyts, E.: The mass-metallicity relation and abundance gradients with KMOS<sup>3D</sup>, invited talk, 1st Carnegie Searle Symposium: Understanding Nebular Emission in High-Redshift Galaxies, Pasadena, USA, July 2015.

Wuyts, S.: Early galaxies: alive, dead, transitioning and/or active, colloquium, University of Texas at Austin, Austin, USA, April 2015.

Wuyts, S.: KMOS<sup>3D</sup>: the mass budget in early disks, invited talk, Census, Evolution, Physics, New Haven, USA, November 2015.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, Kali Institute for Astronomy and Astrophysics, Beijing, China, January 2015.

Wuyts, S.: Massive galaxy growth since cosmic noon, colloquium, University of Texas at Austin, Austin, USA, March 2015.

Wuyts, S.: The life and death of massive galaxies, invited talk, University of Bath, Bath, United Kingdom, March 2015.

Yu, H.-F.: Gamma-ray bursts from theory to observation: spectral analysis, emission mechanisms, and more, contributed talk, Universe Cluster Science F Day, Garching, Germany, July 2015.

Yu, H.-F.: On the Sharpness of Gamma-Ray Burst Prompt Emission Spectra, contributed talk, Sixth International Fermi Symposium, Washington D.C., U.S.A., November 2015.

## Dissertationen

- Buchner, J.: On the obscuration of the growing supermassive black hole population. Ludwig-Maximilians-Universität München 2015.
- Chatzopoulos, S.: The old nuclear star cluster in the Milky Way. Ludwig-Maximilians-Universität München 2015.
- Kulkarni, S.: Understanding the evolutionary modes of disks with resolved H $\alpha$  maps of 390 galaxies in local groups. Ludwig-Maximilians-Universität München 2015.
- Longobardi, A.: Where stellar halos coexist with intracluster light: a case study of the giant Virgo-central galaxy M87. Ludwig-Maximilians-Universität München 2015.
- Greisel, N.: Photometric redshifts and properties of galaxies from the Sloan Digital Sky Survey. Ludwig-Maximilians-Universität München 2015.
- Holland, J. G.: Optical and X-ray structures in the REXCESS sample of galaxy clusters. Ludwig-Maximilians-Universität München 2015.
- Hsu, L.-T.: Photometric redshifts of faint X-ray sources: paving the way towards the study of AGN/galaxy co-evolution over cosmic time. Ludwig-Maximilians-Universität München 2015.
- Huber, M. B.: The relation between physical properties of galaxies and their environmental geometry in the Sloan Digital Sky Survey. Ludwig-Maximilians-Universität München 2015.
- Maggi, P.: On the population of supernova remnants in the Large Magellanic Cloud observed with XMM-Newton. Technische Universität München 2015.

## Masterarbeiten

- Simm, T.: AGN optical variability in the PAN-STARRS1 survey. Ludwig-Maximilians-Universität München 2015.
- Weber, J.: Test and Characterization of the GRAVITY Laser Metrology Injection. Technische Universität München 2015.

## Bachelorarbeiten

- Haberland, M.: Massebestimmung supermassiver schwarzer Löcher mit Reverberation Mapping. Ludwig-Maximilians-Universität München 2015.
- Unterauer, E.: Altersbestimmung von Zwerggalaxien: die synthetic Color-Magnitude-Diagramm Methode. Ludwig-Maximilians-Universität München 2015.
- Gillhuber, M.: Entwicklung und Realisierung einer Schrittmotorenregelung zur Bestimmung von Positionierungsgenauigkeiten im Bogensekundenbereich mit abschließender Eignungsbewertung für die Instrumentalisierung am Very Large Telescope. Hochschule für Angewandte Wissenschaften Landshut 2015.