

München

Universitäts-Sternwarte München (USM)
der Fakultät für Physik
der Ludwig-Maximilians-Universität (LMU)

Scheinerstr. 1, 81679 München
Tel: (0 89) 2180-6001, Fax: (0 89) 2180-6003
E-Mail: adis@usm.lmu.de
Internet: <http://www.usm.lmu.de>

1 Personal und Ausstattung

1.1 Personalstand

Lehrstühle:

Prof. Dr. Dr.habil. R. Bender [-6001], Prof. Dr. Dr.habil. A. Burkert [-5992], Prof. Dr. J. Mohr [-5967]

Professoren und Privatdozenten:

Prof. Dr. Dr.habil. R. Bender [-6001], Prof. Dr. Dr.habil. A. Burkert [-5992], PD Dr. Dr.habil. K. Butler [-6018], PD Dr. Dr.habil. K. Dolag [-5994], Prof. Dr. B. Ercolano [-6974], Prof. i.R. Dr. Dr.habil. T. Gehren [-6035], Prof. Dr. T. Giannantonio [-6035] Prof. Dr. Dr.habil. H. Lesch [-6007], Prof. Dr. J. Mohr [-5967], Dr. B. Moster (DFG/Emmy-Noether) [9284], Prof. Dr. Dr.habil. A.W.A. Pauldrach [-6021], Prof. Dr. T. Preibisch [-6016], PD Dr. Dr.habil. J. Puls [-6022], PD Dr. Dr.habil. R.P. Saglia [-5998] (MPE), Prof. Dr. J. Weller [-5976]

Wissenschaftliche Mitarbeiter:

Dr. C. Alig [-5991], Dr. I. Balestra [-9298], Dr. H. Barwig [-5974], Dr. F. Beaujean, Dr. A. Beck [-6031], Dr. A. Beifiori [-6017](LMU), Dr. A. Bode (MPE), Dr. J. Chan (MPE), Dr. M. Costanzi [-5989], Dr. J. Dietrich [-5942], Dr. P. Erwin (MPE), Dr. M. Fabricius (MPE), Dr. D. Farrow (MPE), Dr. K. Fierlinger (MPE), Dr. M. Fossati (MPE), Dr. R. Gabler [-6019], Dr. A. Galametz (MPE), Dr. C. Gössl [-5972], Dr. M. Gritschneider [-6986](DFG), Dr. F. Grupp [-6005], Dr. R. Häfner [-6012], Dr. N. Hamaus [-9294], Dr. T. Hoffmann [-6024], Dr. D. Hubber [-9279](EXC), Dr. U. Hopp [-5997], Dr. B. Hoyle [-5989](MPE), Dr. H. Israel [-6949], Dr. M. Klein [-6006], Dr. M. Kümmel [-5993], Dr. G.-X. Li [-6030] (DFG), Dr. X. Mazzalay (MPE), Dr. J. T. Mendel (MPE), Dr. M. Mirkazemi, Dr. A. Monna [-5983](MPE), Dr. F. Montesano (MPE), Dr. J. Müller [-6007], Dr. C. Obermeier [-5995](MPE), Dr. M. Opitsch (MPE), Dr. K. Paech [-5895](EXC), Dr. M. Pannella [-6006], Dr. M. Petkova, Dr. G. Picogna [-6973](EXC), Dr. D. Rapetti, Dr. R. Remus [-6986], Dr. A. Riffeser [-5973], Dr. V. Roccatagliata [-6973](DFG), Dr. A. Sanchez (MPE), Dr. A. Saro [-6034], Dr. S. Seitz [-5996], Dr. J. Snigula [-6027](MPE), Dr. V. Strazzullo [-6033], Dr. J.

Thomas (MPE), Dr. M. Trevor (MPE), Dr. T. Vassallo [-5918], Dr. L. Wang [-5983](MPE), Dr. M. Wetzstein [-5918], Dr. D. Wilman [-5998](DFG), Dr. M. Zintl [-5991] (EXC)

Doktoranden:

MSci A. Arth [-5847](MPE), MSci A. Ballone (EXC), Dipl.-Phys. M. Behrendt (MPE), MSci R. Capasso [-6029], MSci L.P. Carneiro [-6029], MSci F. Finozzi (MPE), MSci O. Friedrich [-5978](TR33), MSci S. Grandis [-6029], MSci N. Gupta [-6023], MSci M. Häuser [-5846](BMBF), MSci S. Hagstotz [-5987](TR33), MSci S. Heigl [-5970], MSci L. Hennicker [-6004](DFG), MSci J. Hou (TR33), MSci H. Kellermann [-5983](MPE), MSci M. Kluge [-5981](MPE), MSci M. Kodric [-6975], MSci M. Lippich-Golobart (MPE,TR33), MSci G. Pollina [-5987](EXC), MSci A. Ragagnin [-5979], MSci M.M. Rau [-5978](TR33), MSci K. Sandesh (MPE), MSci P. Schneider [-6029], MSci F. Schulze [6968](MPE), MSci L. Steinborn [-5990](TR33), MSci C. Stern [-6029], MSci M. Tazzari (ESO), MSci A. Teklu [-6968](EXC), MSci T. Tutis [-5987](EXC), MSci T. Varga [-5982](MPE), Dipl.-Phys. J. Weber[-6030](DFG)

Diplomanden und Masteranden:

E. Amazo-Gomez [-5977], N. Baisert [-5983], M. Bianco [-5979], V. Fahrenschon (MPE), S. Flaischlen [-5991], P. Förster [-5990], C. Hackl [-5972], S. Hammer [-5979], J. Jennings [-5981], H. Jeon [-5970], J. Kaminski [-5979], A. Kakoschke [-5979], M. Kastl [-5981], M. Ködel [-6004], R. Lohmeyer [-5979], P. Luppe [-5981], E. Mevius [-5979], K. Monsch [-5970], J. Osada [-5977], L. Porth [-5982], L. Reb [-5978], F. Rizzuto [-5982], E. Sanchis [-5979], X. Shao [-5981], G. Temple [-5979], J. Wolf [-5982], A. Zormpas [-5979]

Technisches Personal und Softwareentwickler:

Dipl.-Phys. A. Bohnet (MPE), M. Gillhuber (MPE), Dipl.-Ing.(FH) H.J. Hess [-6010], MSci. M. Häuser [5846] (BMBF), A. Karasz [-5986], Dipl.-Ing.(FH) H. Kravcar [-5971] (BMBF), Dipl. Phys F. Lang-Bardl [-6965], Dipl.-Phys. J. Richter [-6013] (BMBF), Dr. J. Schlichter [-6011] (BMBF), L. Schneiders-Fesl [-6025], M. Siedschlag [-5970], Dipl.-Phys. M. Wegner [-6020] (BMBF), P. Well [-5988]

Observatorium Wendelstein:

Dipl.-Geophys. W. Mitsch [08023/8198-0], C. Ries [08023/8198-0], M. Schmidt [08023/8198-0]

Sekretariat und Verwaltung:

N. Auer [-6095], S. Grötsch [-6001], U. Le Guay [-6000], G. Niggel [-5869]

1.2 Personelle Veränderungen

Ausgeschieden:

A. Brucalassi (31.07.2016) J. Dale (31.08.2016), I-N. Chiu (30.06.2016), B. Gazkowski (30.06.2016), J. Grieb (30.04.2016), J. Koppenhöfer (30.04.2016), D. Rapetti (30.06.2016), S. Salazar (30.06.2016), M. Wetzstein (30.09.2016)

Neueinstellungen und Änderungen des Anstellungsverhältnisses:

M. Behrendt (01.01.2016), M. Costanzi (30.06.2016), T. Giannantonio (01.10.2016), S. Hagstotz (31.08.2016), J. Hou (01.09.2016), B. Hoyle (31.08.2016), H. Israel (01.01.2016), M. Kodric (01.01.2016), B. Moster (01.03.2016), G. Picogna (01.04.2016), F. Schulze (01.06.2016), T. Tutis (01.09.2016), M. Zintl (01.12.2016)

2 Lehrtätigkeit und Prüfungen

2.1 Lehrtätigkeiten

Vertreten durch Prof. Dr. R. Bender, Prof. Dr. A. Burkert, PD Dr. K. Butler, Prof. Dr. B. Ercolano, Prof. Dr. T. Giannantonio, Prof. Dr. H. Lesch, Prof. Dr. J. Mohr, Dr. B. Moster, Prof. Dr. A.W.A. Pauldrach, Prof. Dr. Th. Preibisch, PD Dr. J. Puls, PD Dr. R.P. Saglia, und Prof. Dr. J. Weller wurde die Lehre im Gebiet der Physik, Astronomie und Astrophysik an der LMU-München (incl. IMPRS) durchgeführt.

2.2 Prüfungen

Es wurden 32 Naturwissenschaftliche Vorprüfungen in Zahmedizin, 29 Bachelorprüfungen in Physik, 68 Promotionsprüfungen in Physik und 3 Habilitationen in Physik und Astronomie abgenommen.

3 Wissenschaftliche Arbeiten

3.1 Kosmologie und Strukturbildung

- Beobachtung und Untersuchung der Struktur, Dynamik und Entwicklung des Universums.
(J. Dietrich, J. Mohr, A. Saro, V. Strazzullo)
- Kosmologische Beobachtungen und Untersuchungen zur Expansionsgeschichte des Universums sowie zur Bildung großräumiger Strukturen.
(J. Weller, R. Bender, S. Seitz, A. Pauldrach, T. Hoffmann)
- Beobachtungen und Interpretation zur Verteilung kosmischer Hohlräume.
(J. Weller)
- Entwicklung und Anwendung von “Machine Learning” Methoden zur Bestimmung photometrischer Rotverschiebungen.
(J. Weller, S. Seitz)
- Untersuchungen zur Ionisierungsgeschichte des Universums mit Hilfe der kosmischen Hintergrundstrahlung.
(J. Weller)
- Untersuchung und kosmologische Beobachtung der Dunklen Energie und modifizierter Gravitation.
(J. Weller, S. Seitz, R. Bender)

3.2 Extragalaktische Astronomie

- Beobachtungen und Untersuchungen der Struktur, Dynamik und Entwicklung von Galaxien und Galaxienhaufen unter Berücksichtigung von Dunkler Energie, Dunkler Materie, Gravitationslinsen und Schwarzen Löchern.
(R. Bender, R.P. Saglia, S. Seitz, U. Hopp, J. Weller)
- Numerische Simulationen zur Entstehung und Entwicklung von Galaxien, Galaxiengruppen und -haufen und Strukturbildung.
(A. Burkert, K. Dolag, J. Weller)

3.3 Sterne und Planeten

- Suche nach extrasolaren Planeten.
(R. Bender, R.P. Saglia)

- Numerische Simulationen zur Stern- und Planetenentstehung und zur chemischen Entwicklung protoplanetarischer Scheiben.
(B. Ercolano, A. Burkert)
- Beobachtungen von Sternen sowie Untersuchungen zu deren Struktur, Entstehung, Entwicklung und Endphasen.
(A. Burkert, T. Preibisch, B. Ercolano, A. Pauldrach, J. Puls, K. Butler, T. Hoffmann, A. Riffeser, R. Bender, S. Seitz, U. Hopp, C. Gössl)

3.4 Plasma-Astrophysik

- Untersuchungen zur Dynamik von Magnetfeldern in ionisierten Plasmen mit Staub und Neutralgas.
(H. Lesch, K. Dolag)

3.5 Instrumentenentwicklung

- Entwicklung von Spektrographen sowie Instrumenten-Bau für moderne Teleskope.
(R. Bender, B. Muschielok, A. Hess, F. Grupp, C. Gössl, F. Lang, U. Hopp)
- Betrieb des Wendelsteinobservatoriums durch zwei Teleskope mit 2m und 40cm Hauptspiegeldurchmesser.
(R. Bender, U. Hopp, W. Mitsch, A. Riffeser, C. Gössl, F. Lang, C. Ries, M. Schmidt)
- Entwicklung von Algorithmen und Software für die ESA Euclid Mission
(H. Israel, M. Kuemmel, J. Mohr, T. Vassallo)

4 Masterarbeiten, Diplomarbeiten, Dissertationen, Habilitationen

4.1 Masterarbeiten, Diplomarbeiten

Abgeschlossen:

- Amazo-Gomez, E.: Observational study of convection related phenomena in cool main sequence stars. München, USM, Masterarbeit, 2016
- Augustin, Ramona: Strong Lensing Analysis of Abell 370. München, USM, Masterarbeit, 2016
- Bolze, Riccardo: Approximate mock catalogues for the Hobby-Eberly Telescope Dark Energy Experiment. München, USM, Masterarbeit, 2016
- Franz, R.: Escape of Ionizing Photons from Galaxies: The role of Porosity and star formation History. München, USM, Masterarbeit, 2016
- Konrad, Norbert: Applying machine learning techniques to observational properties of galaxies in cosmic voids. München, USM, Masterarbeit, 2016
- März, Michael Maximilian: Data Augmentation for Photometric Redshift Estimation. München, USM, Masterarbeit, 2016
- Mevius, Emilio: Simulation of Chemical Enrichment in Galaxies. München, USM, Masterarbeit, 2016
- Porth, Lucas: Nonlinear structure formation and the halo model. München, USM, Masterarbeit, 2016
- Rehmann, Romy Louise: Weak lensing analysis of SZ selected Planck clusters with the 2m Fraunhofer telescope. München, USM, Masterarbeit, 2016
- Varga, Tamás Norbert: Probing the Dark Matter Substructure of Galaxy Clusters via Weak Gravitational Lensing. München, USM, Masterarbeit, 2016

4.2 Dissertationen

Abgeschlossen:

- Alvarado-Gomez, J: Magnetic fields in Sun-like stars and their effects on circumstellar environments. München, USM, Dissertation, 2016
- Ballone, Alessandro: The Galactic Center cloud G2 as an outflow from a central star. München, USM, Dissertation, 2016
- Chi Chung Chan, Jeffrey: Constraining the formation and evolution of cluster galaxies at $z \sim 1.5$ using sizes and colour gradients. München, USM, Dissertation, 2016
- Chiu, I-Non: Studies of Baryon Content and Gravitational Lensing Effects in Galaxy Clusters. München, USM, Dissertation, 2016
- Fossati, Matteo: Environmentally driven suppression of star formation in galaxies over the last 10 billion years. München, USM, Dissertation, 2016
- Gaczkowski, B: The origin of the Lupus I molecular cloud Formation between colliding shells? München, USM, Dissertation, 2016
- Grieb, Jan Niklas: Anisotropic galaxy clustering measurements in Fourier space and cosmological implications from the BOSS DR12 sample. München, USM, Dissertation, 2016
- Kosyra, Ralf: Environmental selection effects of Sunyaev Zel'dovich selected clusters of galaxies and instrumentation dedicated to the photometric study of large scale structure. München, USM, Dissertation, 2016
- McLeod, A: Feedback in massive star-forming regions traced by integral field spectroscopy. München, USM, Dissertation, 2016
- Obermeier, Christian: Searching for hot Jupiter transits around cool stars. München, USM, Dissertation, 2016
- Opitsch, Michael: The bar of the Andromeda galaxy revealed by integral field spectroscopy. München, USM, Dissertation, 2016
- Salazar-Albornoz, Salvador: A tomographic approach to the statistical analysis of the large-scale structure of the Universe. München, USM, Dissertation, 2016

5 Veröffentlichungen

5.1 In Zeitschriften und Büchern

- Abbott, B. P., Abbott, R., Abbott, T. D., et al.: *Supplement: "Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914"* (2016, *ApJL*, 826, L13). *ApJS* **225**, 8 (2016)
- Abbott, B. P., Abbott, R., Abbott, T. D., et al.: *Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914*. *ApJ* **826**, L13 (2016)
- Abbott, T., Abdalla, F. B., Allam, S., et al.: *Cosmology from cosmic shear with Dark Energy Survey Science Verification data*. *Phys. Rev. D* **94**, 022001 (2016)
- Achitouv, I., Baldi, M., Puchwein, E., et al.: *Imprint of $f(R)$ gravity on nonlinear structure formation*. *Phys. Rev. D* **93**, 103522 (2016)
- Alexander, R. D., Wynn, G. A., Mohammed, H., et al.: *Magnetospheres of hot Jupiters: hydrodynamic models and ultraviolet absorption*. *MNRAS* **456**, 2766 (2016)
- Alvarado-Gómez, J. D., Hussain, G. A. J., Cohen, O., et al.: *Simulating the environment around planet-hosting stars. II. Stellar winds and inner astrospheres*. *A&A* **594**, A95 (2016)
- Alvarado-Gómez, J. D., Hussain, G. A. J., Cohen, O., et al.: *Simulating the environment around planet-hosting stars. I. Coronal structure*. *A&A* **588**, A28 (2016)

- Amodeo, S., Ettori, S., Capasso, R., et al.: *The relation between mass and concentration in X-ray galaxy clusters at high redshift*. A&A **590**, A126 (2016)
- Annis, J., Soares-Santos, M., Berger, E., et al.: *A Dark Energy Camera Search for Missing Supergiants in the LMC after the Advanced LIGO Gravitational-wave Event GW150914*. ApJ **823**, L34 (2016)
- Applegate, D. E., Mantz, A., Allen, S. W., et al.: *Cosmology and astrophysics from relaxed galaxy clusters - IV. Robustly calibrating hydrostatic masses with weak lensing*. MNRAS **457**, 1522 (2016)
- Asensio-Torres, R., Janson, M., Hashimoto, J., et al.: *Polarimetry and flux distribution in the debris disk around HD 32297*. A&A **593**, A73 (2016)
- Balbinot, E., Yanny, B., Li, T. S., et al.: *The Phoenix Stream: A Cold Stream in the Southern Hemisphere*. ApJ **820**, 58 (2016)
- Balestra, I., Mercurio, A., Sartoris, B., et al.: *CLASH-VLT: Dissecting the Frontier Fields Galaxy Cluster MACS J0416.1-2403 with 800 Spectra of Member Galaxies*. ApJS **224**, 33 (2016)
- Ballone, A., Schartmann, M., Burkert, A., et al.: *The G2+G2t Complex as a Fast and Massive Outflow?* ApJ **819**, L28 (2016)
- Balogh, M. L., McGee, S. L., Mok, A., et al.: *Evidence for a change in the dominant satellite galaxy quenching mechanism at $z = 1$* . MNRAS **456**, 4364 (2016)
- Bastian, N., Niederhofer, F., Kozhurina-Platais, V., et al.: *A young cluster with an extended main-sequence turnoff: confirmation of a prediction of the stellar rotation scenario*. MNRAS **460**, L20 (2016)
- Baxter, E., Clampitt, J., Giannantonio, T., et al.: *Joint measurement of lensing-galaxy correlations using SPT and DES SV data*. MNRAS **461**, 4099 (2016)
- Bayliss, M. B., Ruel, J., Stubbs, C. W., et al.: *SPT-GMOS: A Gemini/GMOS-South Spectroscopic Survey of Galaxy Clusters in the SPT-SZ Survey*. ApJS **227**, 3 (2016)
- Beck, A. M., Dolag, K., Donnert, J. M. F.: *Geometrical on-the-fly shock detection in smoothed particle hydrodynamics*. MNRAS **458**, 2080 (2016)
- Beck, A. M., Murante, G., Arth, A., et al.: *An improved SPH scheme for cosmological simulations*. MNRAS **455**, 2110 (2016)
- Beck, M. C., Beck, A. M., Beck, R., et al.: *New constraints on modelling the random magnetic field of the MW*. J. Cosmology Astropart. Phys. **5**, 056 (2016)
- Becker, M. R., Troxel, M. A., MacCrann, N., et al.: *Cosmic shear measurements with Dark Energy Survey Science Verification data*. Phys. Rev. D **94**, 022002 (2016)
- Behrendt, M., Burkert, A., Schartmann, M.: *Clusters of Small Clumps Can Explain the Peculiar Properties of Giant Clumps in High-redshift Galaxies*. ApJ **819**, L2 (2016)
- Bel, J., Branchini, E., Di Porto, C., et al.: *The VIMOS Public Extragalactic Redshift Survey (VIPERS). On the recovery of the count-in-cell probability distribution function*. A&A **588**, A51 (2016)
- Beutler, F., Seo, H.-J., Ross, A. J., et al.: *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in Fourier-space*. MNRAS (2016)

- Biffi, V., Borgani, S., Murante, G., et al.: *On the Nature of Hydrostatic Equilibrium in Galaxy Clusters*. ApJ **827**, 112 (2016)
- Bocquet, S., Saro, A., Dolag, K., et al.: *Halo mass function: baryon impact, fitting formulae, and implications for cluster cosmology*. MNRAS **456**, 2361 (2016)
- Bonnett, C., Troxel, M. A., Hartley, W., et al.: *Redshift distributions of galaxies in the Dark Energy Survey Science Verification shear catalogue and implications for weak lensing*. Phys. Rev. D **94**, 042005 (2016)
- Boselli, A., Cuillandre, J. C., Fossati, M., et al.: *Spectacular tails of ionized gas in the Virgo cluster galaxy NGC 4569*. A&A **587**, A68 (2016)
- Brucalassi, A., Pasquini, L., Saglia, R., et al.: *Search for giant planets in M67. III. Excess of hot Jupiters in dense open clusters*. A&A **592**, L1 (2016)
- Burkert, A., Förster Schreiber, N. M., Genzel, R., et al.: *The Angular Momentum Distribution and Baryon Content of Star-forming Galaxies at $z \sim 1-3$* . ApJ **826**, 214 (2016)
- Cabrera-Ziri, I., Bastian, N., Hilker, M., et al.: *Is the escape velocity in star clusters linked to extended star formation histories? Using NGC 7252: W3 as a test case*. MNRAS **457**, 809 (2016)
- Cabrera-Ziri, I., Niederhofer, F., Bastian, N., et al.: *No evidence for younger stellar generations within the intermediate-age massive clusters NGC 1783, NGC 1806 and NGC 411*. MNRAS **459**, 4218 (2016)
- Calderón, D., Ballone, A., Cuadra, J., et al.: *Clump formation through colliding stellar winds in the Galactic Centre*. MNRAS **455**, 4388 (2016)
- Caminha, G. B., Grillo, C., Rosati, P., et al.: *CLASH-VLT: A highly precise strong lensing model of the galaxy cluster RXC J2248.7-4431 (Abell S1063) and prospects for cosmography*. A&A **587**, A80 (2016)
- Caminha, G. B., Karman, W., Rosati, P., et al.: *Discovery of a faint, star-forming, multiply lensed, Lyman- α blob*. A&A **595**, A100 (2016)
- Capozzi, D., Maraston, C., Daddi, E., et al.: *Revisiting the role of the thermally pulsating asymptotic-giant-branch phase in high-redshift galaxies*. MNRAS **456**, 790 (2016)
- Carbone, C., Petkova, M., Dolag, K.: *DEMNUi: ISW, Rees-Sciama, and weak-lensing in the presence of massive neutrinos*. J. Cosmology Astropart. Phys. **7**, 034 (2016)
- Carneiro, L. P., Puls, J., Sundqvist, J. O., et al.: *Atmospheric NLTE models for the spectroscopic analysis of blue stars with winds. III. X-ray emission from wind-embedded shocks*. A&A **590**, A88 (2016)
- Chan, J. C. C., Beifiori, A., Mendel, J. T., et al.: *Sizes, colour gradients and resolved stellar mass distributions for the massive cluster galaxies in XMMUJ2235-2557 at $z = 1.39$* . MNRAS **458**, 3181 (2016)
- Chang, C., Pujol, A., Gaztañaga, E., et al.: *Galaxy bias from the Dark Energy Survey Science Verification data: combining galaxy density maps and weak lensing maps*. MNRAS **459**, 3203 (2016)
- Chiu, I., Desai, S., Liu, J.: *ComEst: A completeness estimator of source extraction on astronomical imaging*. Astronomy and Computing **16**, 79 (2016)
- Chiu, I., Dietrich, J. P., Mohr, J., et al.: *Detection of enhancement in number densities of background galaxies due to magnification by massive galaxy clusters*. MNRAS **457**, 3050 (2016)

- Chiu, I., Mohr, J., McDonald, M., et al.: *Baryon content of massive galaxy clusters at $0.57 < z < 1.33$* . MNRAS **455**, 258 (2016)
- Chiu, I., Saro, A., Mohr, J., et al.: *Stellar mass to halo mass scaling relation for X-ray-selected low-mass galaxy clusters and groups out to redshift $z \approx 1$* . MNRAS **458**, 379 (2016)
- Clarke, S. D., Whitworth, A. P., Hubber, D. A.: *Perturbation growth in accreting filaments*. MNRAS **458**, 319 (2016)
- Clerkin, L., Kirk, D., Manera, M., et al.: *Testing the lognormality of the galaxy and weak lensing convergence distributions from Dark Energy Survey maps*. MNRAS (2016)
- Comparat, J., Delubac, T., Jouvel, S., et al.: *SDSS-IV eBOSS emission-line galaxy pilot survey*. A&A **592**, A121 (2016)
- Consolandi, G., Gavazzi, G., Fumagalli, M., et al.: *Robust automatic photometry of local galaxies from SDSS. Dissecting the color magnitude relation with color profiles*. A&A **591**, A38 (2016)
- Cowperthwaite, P. S., Berger, E., Soares-Santos, M., et al.: *A DECam Search for an Optical Counterpart to the LIGO Gravitational-wave Event GW151226*. ApJ **826**, L29 (2016)
- Crawford, T. M., Chown, R., Holder, G. P., et al.: *Maps of the Magellanic Clouds from Combined South Pole Telescope and PLANCK Data*. ApJS **227**, 23 (2016)
- Crocce, M., Carretero, J., Bauer, A. H., et al.: *Galaxy clustering, photometric redshifts and diagnosis of systematics in the DES Science Verification data*. MNRAS **455**, 4301 (2016)
- Crowther, P. A., Caballero-Nieves, S. M., Bostroem, K. A., et al.: *The R136 star cluster dissected with Hubble Space Telescope/STIS. I. Far-ultraviolet spectroscopic census and the origin of He II $\lambda 1640$ in young star clusters*. MNRAS **458**, 624 (2016)
- Cui, W., Power, C., Knebe, A., et al.: *nIFTy galaxy cluster simulations - IV. Quantifying the influence of baryons on halo properties*. MNRAS **458**, 4052 (2016)
- da Silva, R., Lemasle, B., Bono, G., et al.: *Neutron-capture elements across the Galactic thin disk using Cepheids*. A&A **586**, A125 (2016)
- Dark Energy Survey Collaboration, Abbott, T., Abdalla, F. B., et al.: *The Dark Energy Survey: more than dark energy - an overview*. MNRAS **460**, 1270 (2016)
- de Haan, T., Benson, B. A., Bleem, L. E., et al.: *Cosmological Constraints from Galaxy Clusters in the 2500 Square-degree SPT-SZ Survey*. ApJ **832**, 95 (2016)
- Desai, S., Mohr, J. J., Bertin, E., et al.: *Detection and removal of artifacts in astronomical images*. Astronomy and Computing **16**, 67 (2016)
- Dolag, K., Komatsu, E., Sunyaev, R.: *SZ effects in the Magneticum Pathfinder simulation: comparison with the Planck, SPT, and ACT results*. MNRAS **463**, 1797 (2016)
- Elahi, P. J., Knebe, A., Pearce, F. R., et al.: *nIFTy galaxy cluster simulations - III. The similarity and diversity of galaxies and subhaloes*. MNRAS **458**, 1096 (2016)
- English, W., Hardcastle, M. J., Krause, M. G. H.: *Numerical modelling of the lobes of radio galaxies in cluster environments - III. Powerful relativistic and non-relativistic jets*. MNRAS **461**, 2025 (2016)
- Ercolano, B., Owen, J. E.: *Blueshifted [O I] lines from protoplanetary discs: the smoking gun of X-ray photoevaporation*. MNRAS **460**, 3472 (2016)

- Erwin, P., Debattista, V. P.: *Caught in the Act: Direct Detection of Galactic Bars in the Buckling Phase*. ApJ **825**, L30 (2016)
- Fajardo-Mendieta, W. G., Martínez-Oliveros, J. C., Alvarado-Gómez, J. D., et al.: *Impulsivity Parameter for Solar Flares*. ApJ **818**, 56 (2016)
- Fierlinger, K. M., Burkert, A., Ntormousi, E., et al.: *Stellar feedback efficiencies: supernovae versus stellar winds*. MNRAS **456**, 710 (2016)
- Fossati, M., Fumagalli, M., Boselli, A., et al.: *MUSE sneaks a peek at extreme ram-pressure stripping events - II. The physical properties of the gas tail of ESO137-001*. MNRAS **455**, 2028 (2016)
- Fotopoulou, S., Pacaud, F., Paltani, S., et al.: *The XXL Survey. VI. The 1000 brightest X-ray point sources*. A&A **592**, A5 (2016)
- Friedrich, O., Seitz, S., Eifler, T. F., et al.: *Performance of internal covariance estimators for cosmic shear correlation functions*. MNRAS **456**, 2662 (2016)
- Gao, D.-Y., Ji, H.-X., Cao, C., et al.: *WES – Weihai Echelle Spectrograph*. PASP **128**, 125002 (2016)
- Gerdes, D. W., Jennings, R. J., Bernstein, G. M., et al.: *Observation of Two New L4 Neptune Trojans in the Dark Energy Survey Supernova Fields*. AJ **151**, 39 (2016)
- Giannantonio, T., Fosalba, P., Cawthon, R., et al.: *CMB lensing tomography with the DES Science Verification galaxies*. MNRAS **456**, 3213 (2016)
- Gil-Marín, H., Percival, W. J., Brownstein, J. R., et al.: *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: RSD measurement from the LOS-dependent power spectrum of DR12 BOSS galaxies*. MNRAS **460**, 4188 (2016)
- Ginsburg, A., Goss, W. M., Goddi, C., et al.: *Toward gas exhaustion in the W51 high-mass protoclusters*. A&A **595**, A27 (2016)
- Ginsburg, A., Henkel, C., Ao, Y., et al.: *Dense gas in the Galactic central molecular zone is warm and heated by turbulence*. A&A **586**, A50 (2016)
- Giocoli, C., Jullo, E., Metcalf, R. B., et al.: *Multi Dark Lens Simulations: weak lensing light-cones and data base presentation*. MNRAS **461**, 209 (2016)
- Gozaliasl, G., Finoguenov, A., Khosroshahi, H. G., et al.: *Brightest group galaxies: stellar mass and star formation rate (paper I)*. MNRAS **458**, 2762 (2016)
- Grandis, S., Rapetti, D., Saro, A., et al.: *Quantifying Tensions between CMB and Distance Datasets in Models with Free Curvature or Lensing Amplitude*. MNRAS **463**, 1416 (2016)
- Grandis, S., Seehars, S., Refregier, A., et al.: *Information gains from cosmological probes*. J. Cosmology Astropart. Phys. **5**, 034 (2016)
- Grieb, J. N., Sánchez, A. G., Salazar-Albornoz, S., et al.: *Gaussian covariance matrices for anisotropic galaxy clustering measurements*. MNRAS **457**, 1577 (2016)
- Grillo, C., Karman, W., Suyu, S. H., et al.: *The Story of Supernova “Refsdal” Told by Muse*. ApJ **822**, 78 (2016)
- Gruen, D., Friedrich, O., Amara, A., et al.: *Weak lensing by galaxy troughs in DES Science Verification data*. MNRAS **455**, 3367 (2016)
- Gupta, R. R., Kuhlmann, S., Kovacs, E., et al.: *Host Galaxy Identification for Supernova Surveys*. AJ **152**, 154 (2016)

- Hacar, A., Alves, J., Burkert, A., et al.: *Opacity broadening and interpretation of suprathermal CO linewidths: Macroscopic turbulence and tangled molecular clouds*. A&A **591**, A104 (2016)
- Hamaus, N., Pisani, A., Sutter, P. M., et al.: *Constraints on Cosmology and Gravity from the Dynamics of Voids*. Physical Review Letters **117**, 091302 (2016)
- Harrison, C. M., Simpson, J. M., Stanley, F., et al.: *ALMA resolves extended star formation in high- z AGN host galaxies*. MNRAS **457**, L122 (2016)
- Helminiak, K. G., Kuzuhara, M., Mede, K., et al.: *SEEDS Direct Imaging of the RV-detected Companion to V450 Andromedae, and Characterization of the System*. ApJ **832**, 33 (2016)
- Hoffmann, T. L., Pauldrach, A. W. A., Kaschinski, C. B.: *Radiation-driven winds of hot luminous stars. XVIII. The unreliability of stellar and wind parameter determinations from optical vs. UV spectral analysis of selected central stars of planetary nebulae and the possibility of some CSPNs as single-star supernova Ia progenitors*. A&A **592**, A158 (2016)
- Hoyle, B.: *Measuring photometric redshifts using galaxy images and Deep Neural Networks*. Astronomy and Computing **16**, 34 (2016)
- Hoyle, B., Paech, K., Rau, M. M., et al.: *Tuning target selection algorithms to improve galaxy redshift estimates*. MNRAS **458**, 4498 (2016)
- Hubber, D. A., Ercolano, B., Dale, J.: *Observing gas and dust in simulations of star formation with Monte Carlo radiation transport on Voronoi meshes*. MNRAS **456**, 756 (2016)
- Hussain, G. A. J., Alvarado-Gómez, J. D., Grunhut, J., et al.: *A spectro-polarimetric study of the planet-hosting G dwarf, HD 147513*. A&A **585**, A77 (2016)
- Jarvis, M., Sheldon, E., Zuntz, J., et al.: *The DES Science Verification weak lensing shear catalogues*. MNRAS **460**, 2245 (2016)
- Jee, M. J., Tyson, J. A., Hilbert, S., et al.: *Cosmic Shear Results from the Deep Lens Survey. II. Full Cosmological Parameter Constraints from Tomography*. ApJ **824**, 77 (2016)
- Kacprzak, T., Kirk, D., Friedrich, O., et al.: *Cosmology constraints from shear peak statistics in Dark Energy Survey Science Verification data*. MNRAS **463**, 3653 (2016)
- Karman, W., Grillo, C., Balestra, I., et al.: *Highly ionized region surrounding SN Refsdal revealed by MUSE*. A&A **585**, A27 (2016)
- Kirk, D., Omori, Y., Benoit-Lévy, A., et al.: *Cross-correlation of gravitational lensing from DES Science Verification data with SPT and Planck lensing*. MNRAS **459**, 21 (2016)
- Kitaura, F.-S., Rodríguez-Torres, S., Chuang, C.-H., et al.: *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: mock galaxy catalogues for the BOSS Final Data Release*. MNRAS **456**, 4156 (2016)
- Krause, M. G. H., Charbonnel, C., Bastian, N., et al.: *Gas expulsion in massive star clusters?. Constraints from observations of young and gas-free objects*. A&A **587**, A53 (2016)
- Kwan, J., Sánchez, C., Clampitt, J., et al.: *Cosmology from large scale galaxy clustering and galaxy-galaxy lensing with Dark Energy Survey Science Verification data*. MNRAS (2016)

- Leistedt, B., Peiris, H. V., Elsner, F., et al.: *Mapping and Simulating Systematics due to Spatially Varying Observing Conditions in DES Science Verification Data*. ApJS **226**, 24 (2016)
- Li, C., de Grijs, R., Bastian, N., et al.: *The tight subgiant branch of the intermediate-age star cluster NGC 411 implies a single-aged stellar population*. MNRAS **461**, 3212 (2016)
- Li, G.-X., Burkert, A.: *Constructing multiscale gravitational energy spectra from molecular cloud surface density PDF - interplay between turbulence and gravity*. MNRAS **461**, 3027 (2016)
- Li, G.-X., Urquhart, J. S., Leurini, S., et al.: *ATLASGAL: A Galaxy-wide sample of dense filamentary structures*. A&A **591**, A5 (2016)
- Li, T. S., Balbinot, E., Mondrik, N., et al.: *Discovery of a Stellar Overdensity in Eridanus-Phoenix in the Dark Energy Survey*. ApJ **817**, 135 (2016)
- Li, T. S., DePoy, D. L., Marshall, J. L., et al.: *Assessment of Systematic Chromatic Errors that Impact Sub-1% Photometric Precision in Large-area Sky Surveys*. AJ **151**, 157 (2016)
- Lin, Y., Liu, H. B., Li, D., et al.: *Cloud Structure of Galactic OB Cluster-forming Regions from Combining Ground- and Space-based Bolometric Observations*. ApJ **828**, 32 (2016)
- Lomax, J. R., Wisniewski, J. P., Grady, C. A., et al.: *Constraining the Movement of the Spiral Features and the Locations of Planetary Bodies within the AB Aur System*. ApJ **828**, 2 (2016)
- Lomax, O., Whitworth, A. P., Hubber, D. A.: *Forming isolated brown dwarfs by turbulent fragmentation*. MNRAS **458**, 1242 (2016)
- Luque, E., Queiroz, A., Santiago, B., et al.: *Digging deeper into the Southern skies: a compact Milky Way companion discovered in first-year Dark Energy Survey data*. MNRAS **458**, 603 (2016)
- Maio, U., Petkova, M., De Lucia, G., et al.: *Radiative feedback and cosmic molecular gas: the role of different radiative sources*. MNRAS **460**, 3733 (2016)
- Mazzalay, X., Thomas, J., Saglia, R. P., et al.: *The supermassive black hole and double nucleus of the core elliptical NGC 5419*. MNRAS **462**, 2847 (2016)
- McLeod, A. F., Weilbacher, P. M., Ginsburg, A., et al.: *A nebular analysis of the central Orion nebula with MUSE*. MNRAS **455**, 4057 (2016)
- McDonald, M., Bulbul, E., de Haan, T., et al.: *The Evolution of the Intracluster Medium Metallicity in Sunyaev Zel'dovich-selected Galaxy Clusters at $0 < z < 1.5$* . ApJ **826**, 124 (2016)
- McDonald, M., Stalder, B., Bayliss, M., et al.: *Star-forming Brightest Cluster Galaxies at $0.25 < z < 1.25$: A Transitioning Fuel Supply*. ApJ **817**, 86 (2016)
- McLeod, A. F., Gritschneider, M., Dale, J. E., et al.: *Connecting the dots: a correlation between ionizing radiation and cloud mass-loss rate traced by optical integral field spectroscopy*. MNRAS **462**, 3537 (2016)
- Mehrtens, N., Romer, A. K., Nichol, R. C., et al.: *The XMM Cluster Survey: the halo occupation number of BOSS galaxies in X-ray clusters*. MNRAS **463**, 1929 (2016)
- Mizuki, T., Yamada, T., Carson, J. C., et al.: *High-contrast imaging of ϵ Eridani with ground-based instruments*. A&A **595**, A79 (2016)

- Niederhofer, F., Bastian, N., Kozhurina-Platais, V., et al.: *Controversial age spreads from the main sequence turn-off and red clump in intermediate-age clusters in the LMC*. A&A **586**, A148 (2016)
- Niederhofer, F., Hilker, M., Bastian, N., et al.: *Constraining the escape fraction of ionizing photons from H II regions within NGC 300: A concept paper*. A&A **592**, A47 (2016)
- Nord, B., Buckley-Geer, E., Lin, H., et al.: *Observation and Confirmation of Six Strong-lensing Systems in the Dark Energy Survey Science Verification Data*. ApJ **827**, 51 (2016)
- Obermeier, C., Koppenhoefer, J., Saglia, R. P., et al.: *Pan-Planets: Searching for hot Jupiters around cool dwarfs*. A&A **587**, A49 (2016)
- Ogiya, G., Burkert, A.: *Dynamical friction and scratches of orbiting satellite galaxies on host systems*. MNRAS **457**, 2164 (2016)
- Ogiya, G., Nagai, D., Ishiyama, T.: *Dynamical evolution of primordial dark matter haloes through mergers*. MNRAS **461**, 3385 (2016)
- Oh, D., Hashimoto, J., Carson, J. C., et al.: *Resolved Near-infrared Image of the Inner Cavity in the GM Aur Transitional Disk*. ApJ **831**, L7 (2016)
- Pacaud, F., Clerc, N., Giles, P. A., et al.: *The XXL Survey. II. The bright cluster sample: catalogue and luminosity function*. A&A **592**, A2 (2016)
- Paech, K., Pratt, S.: *Erratum: Origins of bulk viscosity in relativistic heavy ion collisions [Phys. Rev. C 74, 014901 (2006)]*. Phys. Rev. C **93**, 059902 (2016)
- Palmese, A., Lahav, O., Banerji, M., et al.: *Comparing Dark Energy Survey and HST-CLASH observations of the galaxy cluster RXC J2248.7-4431: implications for stellar mass versus dark matter*. MNRAS **463**, 1500 (2016)
- Papovich, C., Shipley, H. V., Mehtens, N., et al.: *The Spitzer-HETDEX Exploratory Large-area Survey*. ApJS **224**, 28 (2016)
- Park, Y., Krause, E., Dodelson, S., et al.: *Joint analysis of galaxy-galaxy lensing and galaxy clustering: Methodology and forecasts for Dark Energy Survey*. Phys. Rev. D **94**, 063533 (2016)
- Parker, R. J., Dale, J. E.: *Did the Solar system form in a sequential triggered star formation event?* MNRAS **456**, 1066 (2016)
- Parry, W. G., Grillo, C., Mercurio, A., et al.: *Dark matter fraction of low-mass cluster members probed by galaxy-scale strong lensing*. MNRAS **458**, 1493 (2016)
- Patrick, L. R., Evans, C. J., Davies, B., et al.: *Chemistry and kinematics of red supergiant stars in the young massive cluster NGC 2100*. MNRAS **458**, 3968 (2016)
- Petrushevska, T., Amanullah, R., Goobar, A., et al.: *High-redshift supernova rates measured with the gravitational telescope A 1689*. A&A **594**, A54 (2016)
- Pieres, A., Santiago, B., Balbinot, E., et al.: *Physical properties of star clusters in the outer LMC as observed by the DES*. MNRAS **461**, 519 (2016)
- Pizzuti, L., Sartoris, B., Borgani, S., et al.: *CLASH-VLT: testing the nature of gravity with galaxy cluster mass profiles*. J. Cosmology Astropart. Phys. **4**, 023 (2016)
- Planck Collaboration, Adam, R., Ade, P. A. R., et al.: *Planck 2015 results. I. Overview of products and scientific results*. A&A **594**, A1 (2016)

- Planck Collaboration, Adam, R., Ade, P. A. R., et al.: *Planck intermediate results. XXX. The angular power spectrum of polarized dust emission at intermediate and high Galactic latitudes.* *A&A* **586**, A133 (2016)
- Planck Collaboration, Ade, P. A. R., Aghanim, N., et al.: *Planck 2015 results. XXIV. Cosmology from Sunyaev-Zeldovich cluster counts.* *A&A* **594**, A24 (2016)
- Planck Collaboration, Ade, P. A. R., Aghanim, N., et al.: *Planck intermediate results. XXXVII. Evidence of unbound gas from the kinetic Sunyaev-Zeldovich effect.* *A&A* **586**, A140 (2016)
- Planck Collaboration, Ade, P. A. R., Aghanim, N., et al.: *Planck 2015 results. XXVII. The second Planck catalogue of Sunyaev-Zeldovich sources.* *A&A* **594**, A27 (2016)
- Planck Collaboration, Ade, P. A. R., Aghanim, N., et al.: *Planck 2015 results. XIII. Cosmological parameters.* *A&A* **594**, A13 (2016)
- Planck Collaboration, Ade, P. A. R., Aghanim, N., et al.: *Planck 2015 results. XII. Full focal plane simulations.* *A&A* **594**, A12 (2016)
- Planck Collaboration, Ade, P. A. R., Aghanim, N., et al.: *Planck 2015 results. XIX. Constraints on primordial magnetic fields.* *A&A* **594**, A19 (2016)
- Planck Collaboration, Aghanim, N., Arnaud, M., et al.: *Planck 2015 results. XXII. A map of the thermal Sunyaev-Zeldovich effect.* *A&A* **594**, A22 (2016)
- Planck Collaboration, Aghanim, N., Arnaud, M., et al.: *Planck 2015 results. XI. CMB power spectra, likelihoods, and robustness of parameters.* *A&A* **594**, A11 (2016)
- Przybilla, N., Fossati, L., Hubrig, S., et al.: *B fields in OB stars (BOB): Detection of a magnetic field in the He-strong star CPD -57 deg 3509.* *A&A* **587**, A7 (2016)
- Rawiraswattana, K., Hubber, D. A., Goodwin, S. P.: *Discs in misaligned binary systems.* *MNRAS* **460**, 3505 (2016)
- Reid, B., Ho, S., Padmanabhan, N., et al.: *SDSS-III Baryon Oscillation Spectroscopic Survey Data Release 12: galaxy target selection and large-scale structure catalogues.* *MNRAS* **455**, 1553 (2016)
- Remus, R.-S., Dolag, K., Naab, T., et al.: *The co-evolution of total density profiles and central dark matter fractions in simulated early-type galaxies.* *MNRAS* **464**, 3742 (2017)
- Rey-Raposo, R., Dobbs, C., Agertz, O., et al.: *The roles of stellar feedback and galactic environment in star-forming molecular clouds.* *MNRAS* **464**, 3536 (2017)
- Ross, A. J., Beutler, F., Chuang, C.-H., et al.: *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Observational systematics and baryon acoustic oscillations in the correlation function.* *MNRAS* (2016)
- Rozo, E., Rykoff, E. S., Abate, A., et al.: *redMaGiC: selecting luminous red galaxies from the DES Science Verification data.* *MNRAS* **461**, 1431 (2016)
- Rubin, R. H., Simpson, J. P., Colgan, S. W. J., et al.: *Spitzer observations of extragalactic H II regions - III. NGC 6822 and the hot star, H II region connection.* *MNRAS* **459**, 1875 (2016)
- Rykoff, E. S., Rozo, E., Hollowood, D., et al.: *The RedMaPPer Galaxy Cluster Catalog From DES Science Verification Data.* *ApJS* **224**, 1 (2016)
- Ryu, T., Sato, B., Kuzuhara, M., et al.: *High-contrast Imaging of Intermediate-mass Giants with Long-term Radial Velocity Trends.* *ApJ* **825**, 127 (2016)

- Saglia, R. P., Opitsch, M., Erwin, P., et al.: *The SINFONI Black Hole Survey: The Black Hole Fundamental Plane Revisited and the Paths of (Co)evolution of Supermassive Black Holes and Bulges*. ApJ **818**, 47 (2016)
- Sartoris, B., Biviano, A., Fedeli, C., et al.: *Next generation cosmology: constraints from the Euclid galaxy cluster survey*. MNRAS **459**, 1764 (2016)
- Schreiber, C., Elbaz, D., Pannella, M., et al.: *Observational evidence of a slow downfall of star formation efficiency in massive galaxies during the past 10 Gyr*. A&A **589**, A35 (2016)
- Seehars, S., Grandis, S., Amara, A., et al.: *Quantifying concordance in cosmology*. Phys. Rev. D **93**, 103507 (2016)
- Sembolini, F., Elahi, P. J., Pearce, F. R., et al.: *nIFTy galaxy cluster simulations - II. Radiative models*. MNRAS **459**, 2973 (2016)
- Sembolini, F., Yepes, G., Pearce, F. R., et al.: *nIFTy galaxy cluster simulations - I. Dark matter and non-radiative models*. MNRAS **457**, 4063 (2016)
- Shu, X. W., Elbaz, D., Bourne, N., et al.: *Identification of $z \gtrsim 2$ Herschel 500 μm Sources Using Color Deconfusion*. ApJS **222**, 4 (2016)
- Siegert, T., Diehl, R., Greiner, J., et al.: *Positron annihilation signatures associated with the outburst of the microquasar V404 Cygni*. Nature **531**, 341 (2016)
- Simm, T., Salvato, M., Saglia, R., et al.: *Pan-STARRS1 variability of XMM-COSMOS AGN. II. Physical correlations and power spectrum analysis*. A&A **585**, A129 (2016)
- Smith, M., Sullivan, M., D'Andrea, C. B., et al.: *DES14X3taz: A Type I Superluminous Supernova Showing a Luminous, Rapidly Cooling Initial Pre-peak Bump*. ApJ **818**, L8 (2016)
- Soares-Santos, M., Kessler, R., Berger, E., et al.: *A Dark Energy Camera Search for an Optical Counterpart to the First Advanced LIGO Gravitational Wave Event GW150914*. ApJ **823**, L33 (2016)
- Soergel, B., Flender, S., Story, K. T., et al.: *Detection of the kinematic Sunyaev-Zel'dovich effect with DES Year 1 and SPT*. MNRAS **461**, 3172 (2016)
- Steinacker, J., Bacmann, A., Henning, T., et al.: *Prestellar core modeling in the presence of a filament. The dense heart of L1689B*. A&A **593**, A6 (2016)
- Steinborn, L. K., Dolag, K., Comerford, J. M., et al.: *Origin and properties of dual and offset active galactic nuclei in a cosmological simulation at $z=2$* . MNRAS **458**, 1013 (2016)
- Strazzullo, V., Daddi, E., Gobat, R., et al.: *The Red Sequence at Birth in the Galaxy Cluster Cl J1449+0856 at $z = 2$* . ApJ **833**, L20 (2016)
- Suchyta, E., Huff, E. M., Aleksić, J., et al.: *No galaxy left behind: accurate measurements with the faintest objects in the Dark Energy Survey*. MNRAS **457**, 786 (2016)
- Tanga, M., Schady, P., Gatto, A., et al.: *Soft X-ray absorption excess in gamma-ray burst afterglow spectra: Absorption by turbulent ISM*. A&A **595**, A24 (2016)
- Tazzari, M., Testi, L., Ercolano, B., et al.: *Multiwavelength analysis for interferometric (sub-)mm observations of protoplanetary disks. Radial constraints on the dust properties and the disk structure*. A&A **588**, A53 (2016)

- Thomas, J., Ma, C.-P., McConnell, N. J., et al.: *A 17-billion-solar-mass black hole in a group galaxy with a diffuse core*. *Nature* **532**, 340 (2016)
- Treu, T., Brammer, G., Diego, J. M., et al.: *“Refsdal” Meets Popper: Comparing Predictions of the Re-appearance of the Multiply Imaged Supernova Behind MACSJ1149.5+2223*. *ApJ* **817**, 60 (2016)
- Umetsu, K., Zitrin, A., Gruen, D., et al.: *CLASH: Joint Analysis of Strong-lensing, Weak-lensing Shear, and Magnification Data for 20 Galaxy Clusters*. *ApJ* **821**, 116 (2016)
- Valentino, F., Daddi, E., Finoguenov, A., et al.: *A Giant Ly α Nebula in the Core of an X-Ray Cluster at $Z = 1.99$: Implications for Early Energy Injection*. *ApJ* **829**, 53 (2016)
- Vanzella, E., De Barros, S., Cupani, G., et al.: *High-resolution Spectroscopy of a Young, Low-metallicity Optically Thin $L = 0.02L_*$ Star-forming Galaxy at $z = 3.12$* . *ApJ* **821**, L27 (2016)
- Vanzella, E., de Barros, S., Vasei, K., et al.: *Hubble Imaging of the Ionizing Radiation from a Star-forming Galaxy at $z = 3.2$ with $f_{\text{esc}} > 50\%$* . *ApJ* **825**, 41 (2016)
- Villaescusa-Navarro, F., Planelles, S., Borgani, S., et al.: *Neutral hydrogen in galaxy clusters: impact of AGN feedback and implications for intensity mapping*. *MNRAS* **456**, 3553 (2016)
- Wade, G. A., Neiner, C., Alecian, E., et al.: *The MiMeS survey of magnetism in massive stars: introduction and overview*. *MNRAS* **456**, 2 (2016)
- Wang, K., Testi, L., Burkert, A., et al.: *A Census of Large-scale (≥ 10 pc), Velocity-coherent, Dense Filaments in the Northern Galactic Plane: Automated Identification Using Minimum Spanning Tree*. *ApJS* **226**, 9 (2016)
- Wang, T., Elbaz, D., Daddi, E., et al.: *Discovery of a Galaxy Cluster with a Violently Starbursting Core at $z = 2.506$* . *ApJ* **828**, 56 (2016)
- Wang, T., Elbaz, D., Schreiber, C., et al.: *Infrared Color Selection of Massive Galaxies at $z \geq 3$* . *ApJ* **816**, 84 (2016)
- Wilson, S., Hilton, M., Rooney, P. J., et al.: *The XMM Cluster Survey: evolution of the velocity dispersion-temperature relation over half a Hubble time*. *MNRAS* **463**, 413 (2016)
- Wuyts, E., Wisnioski, E., Fossati, M., et al.: *The Evolution of Metallicity and Metallicity Gradients from $z = 2.7$ to 0.6 with KMOS^{3D}*. *ApJ* **827**, 74 (2016)
- Wuyts, S., Förster Schreiber, N. M., Wisnioski, E., et al.: *KMOS3D: Dynamical Constraints on the Mass Budget in Early Star-forming Disks*. *ApJ* **831**, 149 (2016)
- Xu, B., Postman, M., Meneghetti, M., et al.: *The Detection and Statistics of Giant Arcs behind CLASH Clusters*. *ApJ* **817**, 85 (2016)
- Zeidler, P., Preibisch, T., Ratzka, T., et al.: *The VISTA Carina Nebula Survey. II. Spatial distribution of the infrared-excess-selected young stellar population*. *A&A* **585**, A49 (2016)
- Zenteno, A., Mohr, J. J., Desai, S., et al.: *Galaxy populations in the 26 most massive galaxy clusters in the South Pole Telescope SPT-SZ survey*. *MNRAS* **462**, 830 (2016)
- Zhang, C.-P., Li, G.-X., Wyrowski, F., et al.: *N131: A dust bubble born from the disruption of a gas filament*. *A&A* **585**, A117 (2016)

Zhang, Y., Miller, C., McKay, T., et al.: *Galaxies in X-Ray Selected Clusters and Groups in Dark Energy Survey Data. I. Stellar Mass Growth of Bright Central Galaxies since $z \sim 1.2$* . ApJ **816**, 98 (2016)

Zitlau, R., Hoyle, B., Paech, K., et al.: *Stacking for machine learning redshifts applied to SDSS galaxies*. MNRAS **460**, 3152 (2016)

5.2 Konferenzbeiträge

Beck, A. M.: *Origin of strong magnetic fields in Milky Way-like galaxies*. In: Bragaglia, A., Arnaboldi, M., Rejkuba, M., et al. (eds.): *The General Assembly of Galaxy Halos: Structure, Origin and Evolution*. IAU Symposium **317**, 274 (2016)

Beck, A. M.: *How do galaxies get their magnetic fields?* In: *The Interplay between Local and Global Processes in Galaxies*. (2016)

Charbonnel, C., Krause, M.: *Did globular clusters contribute to the stellar population of the Galactic halo?* In: Bragaglia, A., Arnaboldi, M., Rejkuba, M., et al. (eds.): *The General Assembly of Galaxy Halos: Structure, Origin and Evolution*. IAU Symposium **317**, 104 (2016)

Dietrich, J. P., Werner, N., Clowe, D., et al.: *The Dark Matter filament between Abell 222/223*. In: van de Weygaert, R., Shandarin, S., Saar, E., et al. (eds.): *The Zeldovich Universe: Genesis and Growth of the Cosmic Web*. IAU Symposium **308**, 193 (2016)

Dolag, K., Remus, R.-S., Teklu, A. F.: *From the Outskirts of Galaxies to Intra Cluster Light*. In: Bragaglia, A., Arnaboldi, M., Rejkuba, M., et al. (eds.): *The General Assembly of Galaxy Halos: Structure, Origin and Evolution*. IAU Symposium **317**, 292 (2016)

Konishi, M., Matsuo, T., Yamamoto, K., et al.: *A substellar companion to Pleiades III 3441*. PASJ (2016)

Lomax, O., Whitworth, A. P., Hubber, D. A.: *The Role of Discs in the Collapse and Fragmentation of Prestellar Cores*. PASA **33**, e004 (2016)

Oh, D., Hashimoto, J., Tamura, M., et al.: *Near-infrared imaging polarimetry of LkCa 15: A possible warped inner disk*. PASJ **68**, L3 (2016)

Ohta, Y., Fukagawa, M., Sitko, M. L., et al.: *Extreme asymmetry in the polarized disk of V1247 Orionis*. PASJ **68**, 53 (2016)

Poci, A., Kuehn, K., Abbott, T., et al.: *DESAAlert: Enabling Real-Time Transient Follow-Up with Dark Energy Survey Data*. PASA **33**, e049 (2016)

Remus, R.-S., Dolag, K.: *Connecting Small and Large Scales: The Role of Feedback in Establishing Global Galaxy Properties over Cosmic Times*. In: *The Interplay between Local and Global Processes in Galaxies*. (2016)

Steinborn, L. K., Dolag, K., Hirschmann, M., et al.: *AGN and their host galaxies*. In: *The Interplay between Local and Global Processes in Galaxies*. (2016)

Teklu, A. F., Remus, R.-S., Dolag, K.: *Dynamical Properties of Galaxies with Different Morphological Types at $z=0$ and $z=2$* . In: *The Interplay between Local and Global Processes in Galaxies*. (2016)

Prof. Dr. A.W.A. Pauldrach