

München

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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. T. Birnstiel [-6973], Prof. Dr. Dr.habil. H. Boehringer [-6964], Prof. Dr. Dr.habil. A. Burkert [-5992], PD Dr. Dr.habil. K. Butler [-6018], Lehrstuhlvertretung Prof. Dr. W. Dehnen [-6035], PD Dr. Dr.habil. K. Dolag [-5994], Prof. Dr. B. Ercolano [-6974], Honorarprofessor Dr. Dr.habil. R.-P. Kudritzki [-6810], 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. A. Arth [-5847], Dr. C. Alig [-6966], Dr. H. Barwig [-5974], Dr. A. Beifiori [-6017], Dr. S. Bocquet [-6034], Dr. J. Chan (MPE), Dr. G. Chon (EXC)[-6964], Dr. J. Dietrich [-5942], Dr. J. Drazkowska (ERC)[-9294], Dr. P. Erwin (MPE), Dr. M. Fabricius (MPE), Dr. D. Farrow (MPE), Dr. M. Fossati (MPE), Dr. R. Gabler [-6019], Dr. A. Galametz (MPE), Dr. C. Gössl [-5972], Dr. M. Goto-Egner [-6949](DFG), Dr. T. Grassi [-9279], Dr. M. Gritschneder [-6986](DFG), Dr. F. Grupp [-6005], Dr. R. Häfner [-6012], Dr. N. Hamaus [-9294], Dr. T. Hoffmann [-6024], Dr. D. Hubber [-9279](Konwihl-IV), Dr. U. Hopp [-5997], Dr. B. Hoyle [-5989](MPE), Dr. H. Israel [-6949], Dr. M. Klein [-6006], Dr. M. Kümmel [-5993], Dr. N. Maddox [-6949], Dr. X. Mazzalay (MPE), Dr. J. T. Mendel (MPE), Dr. M. Mirkazemi, Dr. A. Monna [-5983](BMBF), Dr. C. Obermeier [-5995](MPE), Dr. A. Obreja [-5918], Dr. K. Paech [-5895](EXC), Dr. M. Pannella [-6006], Dr. M. Petkova, Dr. G. Picogna [-6973](EXC), Dr. G. Pollina [-5987], Dr. R. Remus [-6986], Dr. B. Riaz [-6002](DFG), Dr. A. Riffeser [-5973], Dr. A. Sanchez (MPE), Dr. M. Schartmann (DFG)[-5994], Dr. S. Seitz

[-5996], Dr. J. Snigula [-6027](MPE), Dr. S. Stammler [-9298](ERC), Dr. L. Steinborn [-6968](EXC), Dr. V. Strazzullo [-6033], Dr. J. Thomas (MPE), MSci T. Vassallo [-5918], Dr. M. Vignola (MPE), Dr. L. Wang [-5983](MPE), Dr. J. Weber[-6030](DFG), Dr. D. Wilman [-5998](DFG)

Doktoranden:

Dipl.-Phys. M. Behrendt (GIF), MSci R. Capasso [-6029], MSci L.P. Carneiro [-6029], MSci V. Fahrenschon [-5983](MPE), MSci S. Fleischlen [-5991](DFG), MSci R. Franz [-5970](DFG), MSci O. Friedrich [-5978], MSci M. Garate [-6029](ERC), MSci S. Grandis [-6029], MSci N. Gupta [-6029], MSci M. Häuser [-5846](BMBF), MSci S. Heigl [-6031](MPE), MSci L. Hennicker [-6004](DFG), MSci J. Hou (MPE), MSci H. Kellermann [-5983](MPE), MSci M. Kluge [-5981](MPE), MSci M. Kodric [-6975], MSci J. O' Leary [-5990](DFG), MSci M. Lippich-Golobart (MPE), MSci M. Lotz [-5847](EXC), MSci P. Lustig [-6023], MSci K. Monsch [-5847](DFG), MSci B. Neureither (MPE), MSci M. Paulus [-6029], MSci A. Ragagnin [-6029], MSci R. Rehmann [-5978](EXC), MSci F. Schulze [-5990](MPE), MSci M. Smolla [-6029](DFG), MSci L. Steinborn [-6968](TR33), MSci U. Steinwandel [-5990](DFG), MSci A. Teklu [-6968](EXC), MSci T. Varga [-5981](MPE), MSci A. Zormpas [-6029](TR96)

Diplomanden und Masteranden:

J. Bach [-5977], J. Diehl [-5979], A. Djamali [-5979], B. Ferrer [-5977], P. Förster [-5982], D. Frei [-5982], A. Halder [-5978], A. Hoffmann [-5981], S. Krampf [-5978], Y. Liu [-5982], B. Mayr [-5991], K. Mehrgan (MPE), V. Nistane [-5981], G. Pentaris (MPE), E. SEXTL [-5979], J. Steuer [-5982], S. Tian [-5981], F. Turan [-6966], A. Tzelepidis [-5981], M. Weiler [-5981], C.v. Wedemeyer [-5981], O. Zier [-5991]

Technisches Personal und Softwareentwickler:

Dipl.-Phys. A. Bohnet (MPE), M. Gillhuber (MPE), Dipl.-Ing.(FH) H.J. Hess [-6010], MSci. M. Häuser [5846] (BMBF), M. Schuster [-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]

Sekretariat und Verwaltung:

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

Observatorium Wendelstein [Tel: 08023-]:

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

1.2 Personelle Veränderungen

Ausgeschieden:

F. Beaujean (31.05.2018), L.P. Carneiro (31.10.2018) M. Costanzi (15.10.2018), T. Gianantonio (28.02.2018), N. Gupta (31.01.2018) S. Hagstotz (30.06.2018), A. Karasz (12.02.2018), M. Kodric (30.11.2018), G.-X. Li (31.08.2018), C. Liu (31.08.2018), T. Tutis (30.10.2018)

Neueinstellungen und Änderungen des Anstellungsverhältnisses:

H. Boehringer (01.08.2018), G. Chon (01.06.2018), W. Dehnen (01.10.2018), J. Drazkowska (01.06.2018), P. Lustig (17.09.2018), N. Maddox (01.09.2018), B. Neureither (01.10.2018), J. O Leary (01.03.2018), B. Riaz (01.09.2018), M. Schuster (01.09.2018), M. Smolla (01.08.2018), A. Zormpas (01.04.2018)

2 Lehrtätigkeit und Prüfungen

2.1 Lehrtätigkeiten

Vertreten durch Prof. Dr. R. Bender, Prof. Dr. T. Birnstiel, Prof. Dr. A. Burkert, PD Dr. K. Butler, Prof. Dr. W. Dehnen, 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

34 Naturwissenschaftliche Vorprüfungen in Zahnmedizin,

32 Bachelorprüfungen in Physik,

72 Promotionsprüfungen in Physik und

2 Habilitationen in Physik und Astronomie abgenommen.

3 Wissenschaftliche Arbeiten

3.1 Kosmologie und Strukturbildung

- Langzeitentwicklung von Radiogalaxien in Galaxienhaufen und deren umgebendem Feld (Zeitskala 10 GJ).
(M. Klein, J. Mohr, M. Pannella)
- Untersuchung von Umgebungseinflüssen auf die Entwicklung von Galaxien.
(J. Mohr, M. Klein, N. Maddox, M. Pannella, V. Strazzullo)
- Kosmologische Beobachtungen und Untersuchungen zur Expansionsgeschichte des Universums sowie zur Bildung großräumiger Strukturen.
(J. Weller, R. Bender, S. Seitz, J. Mohr, S. Bocquet, J. Dietrich, M. Klein, V. Strazzullo, 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, J. Mohr, S. Bocquet, J. Dietrich, M. Klein)

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, A. Riffeser, J. Mohr, S. Bocquet, J. Dietrich, M. Klein, N. Maddox, M. Panella, V. Strazzullo)

- Chemische Entwicklung und Entfernung von Galaxien mit aktiver Sternentstehung. (R.-P. Kudritzki)
- Numerische Simulationen zur Entstehung und Entwicklung von Galaxien, Galaxiengruppen und -haufen und Strukturbildung. (A. Burkert, K. Dolag, J. Weller, S. Bocquet)

3.3 Sterne und Planeten

- Suche nach extrasolaren Planeten. (R. Bender, R.P. Saglia, A. Riffeser)
- Numerische Simulationen zur Stern- und Planetenentstehung und zur chemischen Entwicklung protoplanetarischer Scheiben. (B. Ercolano, T. Birnstiel, A. Burkert)
- Beobachtungen von Sternen sowie Untersuchungen zu deren Struktur, Entstehung, Entwicklung und Endphasen. (A. Burkert, T. Preibisch, B. Ercolano, R.-P. Kudritzki, 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, A. Hess, F. Grupp, C. Gössl, F. Lang, U. Hopp, A. Riffeser)
- 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)
- Entwicklung von Algorithmen sowie Software für den SKA-Vorläufer D-MeerKAT. (M. Klein, N. Maddox, J. Mohr, M. Pannella, V. Strazzullo)

4 Masterarbeiten, Diplomarbeiten, Dissertationen, Habilitationen

4.1 Masterarbeiten, Diplomarbeiten

Abgeschlossen:

- Bach, Simon: Redshift Space Distortions and Cosmic Voids. München, USM, Masterarbeit, 2018
- Batziou, Eirini: The Interplay of Magnetic Fields and Star Formation Processes Using SPMHD Simulations. München, USM, Masterarbeit, 2018
- Bittner, Adrian: Spiral Galaxies in Cosmological Zoom-Simulations. München, USM, Masterarbeit, 2018
- Frei, Dennis: Stellar and Wind Parameters of B-Supergiants in the Small Magellanic Cloud, and Wind-Momentum Luminosity Relation. München, USM, Masterarbeit, 2018
- Furtak, Lukas: Strong gravitational lensing analysis of PLCK G287.0+32.9. München, USM, Masterarbeit, 2018

- Geray, Karademir: Simulated Galaxy Interactions In Cosmological and Idealized Environments. München, USM, Masterarbeit, 2018
- Hochstetter, Fabian: Test and implementation of a guiding camera for FOCES at the 2m Wendelstein telescope. München, USM, Masterarbeit, 2018
- Lingg, Jakob: Photometric Redshift Estimation and Testing of Chromatic Correction Mapping for Euclid. München, USM, Masterarbeit, 2018
- Mehrgan, Kianusch: The faint center of Holm15A - The dynamical fingerprints of the largest supermassive black hole known so far? München, USM, Masterarbeit, 2018
- Neureiter, Bianca: The distribution and dynamics of stars in early-type galaxies. München, USM, Masterarbeit, 2018
- Nistane, Viraj: CMB Angular Power Spectrum for an Off-center Observer in a Large-Scale Void Model, München, USM, Masterarbeit, 2018
- Puchert, Patrick: Photometric Redshift Estimation, Spectroscopic Redshift Estimation And Prediction of Artificial Spectra with Machine Learning. München, USM, Masterarbeit, 2018
- Schuster, Nico: Influence of Massive Neutrinos on Cosmic Voids. München, USM, Masterarbeit, 2018
- Tzelepidis, Alexandros: Evolution of Galaxy Populations in SZ Selected Galaxy Clusters to $z=1$. München, USM, Masterarbeit, 2018
- Wölfer, Lisa: Thermal and Hydrodynamical Simulations of X-ray photoevaporation in metal depleted circumstellar discs. München, USM, Masterarbeit, 2018
- Wolf, Julien Anton: Generating Volumetric Representations of the Dark Matter Halo Distribution using Deep Machine Learning. München, USM, Masterarbeit, 2018

4.2 Dissertationen

Abgeschlossen:

- Carneiro, Luiz Paulo: Atmospheric NLTE-Models for the Spectroscopic Analysis of massive stars: New methods and first results for deriving CNO surface abundances. München, USM, Dissertation, 2018
- Cikota, Aleksandar: Narrowing down supernova progenitors with (spectro)polarimetry. München, USM, Dissertation, 2018
- Finozzi, Fabrizio: Triaxial Models of massive elliptical galaxies. München, USM, Dissertation, 2018
- Friedrich, Oliver: Weak-Lensing: Density split statistics. München, USM, Dissertation, 2018
- Gupta, Nikhel: High Frequency Cluster Radio Galaxies and the Sunyaev-Zel'dovich Effect Properties of Galaxy Clusters. München, USM, Dissertation, 2018.
- Hagstotz, Steffen: Large-Scale Structure Probes of Accelerated Expansion. München, USM, Dissertation, 2018
- Pollina, Giorgia: Cosmic Voids in Large-Scale Structure Surveys. München, USM, Dissertation, 2018
- Ragagnin, Antonio: From the mass-concentration relation of haloes to GPUs and into the web: A guide on fully utilizing super computers for the largest, cosmological hydrodynamic simulations. München, USM, Dissertation, 2018
- Steinborn, Lisa: Modelling active galactic nuclei in cosmological simulations: how sub-grid models help to reveal the driving mechanisms of nuclear activity. München, USM, Dissertation, 2018
- Teklu, Adelheid: A Dress Code for Galaxies: How the Interplay of Gas, Stars, Dark Matter and Environment shapes their appearance in Simulations. München, USM, Dissertation, 2018
- Weber, Johann: Three-dimensional, time-dependent Radiative Transfer for H II Regions, the Diffuse Ionized Gas, and the Reionization of the Universe. München, USM, Dissertation, 2018

5 Veröffentlichungen

5.1 In Zeitschriften und Büchern

- Abbott, T. M. C., Abdalla, F. B., Alarcon, A., et al.: *Dark Energy Survey year 1 results: Cosmological constraints from galaxy clustering and weak lensing*. Phys. Rev. D **98**, 043526 (2018)
- Abbott, T. M. C., Abdalla, F. B., Annis, J., et al.: *Dark Energy Survey Year 1 Results: A Precise H_0 Estimate from DES Y1, BAO, and D/H Data*. MNRAS **480**, 3879 (2018)
- Abolfathi, B., Aguado, D. S., Aguilar, G., et al.: *The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment*. ApJS **235**, 42 (2018)
- Agnello, A., Lin, H., Buckley-Geer, L., et al.: *Models of the strongly lensed quasar DES J0408-5354*. MNRAS **472**, 4038 (2017)
- Arrigoni Battaia, F., Prochaska, J. X., Hennawi, J. F., et al.: *Inspiraling halo accretion mapped in Ly α emission around a $z \sim 3$ quasar*. MNRAS **473**, 3907 (2018)
- Assef, R. J., Prieto, J. L., Stern, D., et al.: *A Luminous Transient Event in a Sample of WISE-selected Variable AGNs*. ApJ **866**, 26 (2018)
- Astropy Collaboration, Price-Whelan, A. M., Sipőcz, B. M., et al.: *The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package*. AJ **156**, 123 (2018)
- Avila, S., Crocce, M., Ross, A. J., et al.: *Dark Energy Survey Year-1 results: galaxy mock catalogues for BAO*. MNRAS **479**, 94 (2018)
- Bae, J., Pinilla, P., Birnstiel, T.: *Diverse Protoplanetary Disk Morphology Produced by a Jupiter-mass Planet*. ApJ **864**, L26 (2018)
- Balestra, I., Vanzella, E., Rosati, P., et al.: *CLASH-VLT: spectroscopic confirmation of a $z = 6.11$ quintuply lensed galaxy in the Frontier Fields Cluster RXC J2248.7-4431 (Corrigendum)*. A&A **611**, C2 (2018)
- Ballone, A., Schartmann, M., Burkert, A., et al.: *3D AMR hydrosimulations of a compact-source scenario for the Galactic Centre cloud G2*. MNRAS **479**, 5288 (2018)
- Baxter, E. J., Raghunathan, S., Crawford, T. M., et al.: *A measurement of CMB cluster lensing with SPT and DES year 1 data*. MNRAS **476**, 2674 (2018)
- Bellstedt, S., Forbes, D. A., Romanowsky, A. J., et al.: *Erratum: The SLUGGS Survey: a comparison of total-mass profiles of early-type galaxies from observations and cosmological simulations, to ~ 4 effective radii*. MNRAS **478**, 1925 (2018)
- Bellstedt, S., Forbes, D. A., Romanowsky, A. J., et al.: *The SLUGGS survey: a comparison of total-mass profiles of early-type galaxies from observations and cosmological simulations, to ~ 4 effective radii*. MNRAS **476**, 4543 (2018)
- Berger, T. A., Kudritzki, R.-P., Urbaneja, M. A., et al.: *Quantitative Spectroscopy of Supergiants in the Local Group Dwarf Galaxy IC 1613: Metallicity and Distance*. ApJ **860**, 130 (2018)
- Biffi, V., Dolag, K., Merloni, A.: *AGN contamination of galaxy-cluster thermal X-ray emission: predictions for eRosita from cosmological simulations*. MNRAS **481**, 2213 (2018)

- Blaña Díaz, M., Gerhard, O., Wegg, C., et al.: *Sculpting Andromeda – made-to-measure models for M31’s bar and composite bulge: dynamics, stellar and dark matter mass*. MNRAS **481**, 3210 (2018)
- Blaña Díaz, M., Gerhard, O., Wegg, C., et al.: *Sculpting Andromeda – made-to-measure models for M31’s bar and composite bulge: dynamics, stellar and dark matter mass*. MNRAS (2018)
- Böhm, V., Hilbert, S., Greiner, M., et al.: *Bayesian weak lensing tomography: Reconstructing the 3D large-scale distribution of matter with a lognormal prior*. Phys. Rev. D **96**, 123510 (2017)
- Bonamigo, M., Grillo, C., Ettori, S., et al.: *Dissection of the Collisional and Collisionless Mass Components in a Mini Sample of CLASH and HFF Massive Galaxy Clusters at $z \approx 0.4$* . ApJ **864**, 98 (2018)
- Boselli, A., Fossati, M., Cuillandre, J. C., et al.: *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE). III. Star formation in the stripped gas of NGC 4254*. A&A **615**, A114 (2018)
- Boselli, A., Fossati, M., Ferrarese, L., et al.: *A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE). I. Introduction to the survey*. A&A **614**, A56 (2018)
- Buck, T., Macciò, A. V., Dutton, A. A., et al.: *NIHAO XV: The environmental impact of the host galaxy on galactic satellite and field dwarf galaxies*. MNRAS (2018)
- Buck, T., Ness, M. K., Macciò, A. V., et al.: *Stars Behind Bars. I. The Milky Way’s Central Stellar Populations*. ApJ **861**, 88 (2018)
- Burigana, C., Carvalho, C. S., Trombetti, T., et al.: *Exploring cosmic origins with CORE: Effects of observer peculiar motion*. J. Cosmology Astropart. Phys. **4**, 021 (2018)
- Calderón, D., Cuadra, J., Schartmann, M., et al.: *The Galactic Centre source G2 was unlikely born in any of the known massive binaries*. MNRAS **478**, 3494 (2018)
- Capasso, R., Saro, A., Mohr, J. J., et al.: *Galaxy kinematics and mass calibration in massive SZE-selected galaxy clusters to $z = 1.3$* . MNRAS **482**, 1043 (2019)
- Capelo, P. R., Bovino, S., Lupi, A., et al.: *The effect of non-equilibrium metal cooling on the interstellar medium*. MNRAS **475**, 3283 (2018)
- Carneiro, L. P., Puls, J., Hoffmann, T. L.: *Carbon line formation and spectroscopy in O-type stars*. A&A **615**, A4 (2018)
- Castignani, G., Combes, F., Salomé, P., et al.: *Molecular gas in two companion cluster galaxies at $z = 1.2$* . A&A **617**, A103 (2018)
- Castro, T., Quartin, M., Giocoli, C., et al.: *The effect of baryons in the cosmological lensing PDFs*. MNRAS **478**, 1305 (2018)
- Cawthon, R., Davis, C., Gatti, M., et al.: *Dark Energy Survey Year 1 Results: calibration of redMaGiC redshift distributions in DES and SDSS from cross-correlations*. MNRAS **481**, 2427 (2018)
- Challinor, A., Allison, R., Carron, J., et al.: *Exploring cosmic origins with CORE: Gravitational lensing of the CMB*. J. Cosmology Astropart. Phys. **4**, 018 (2018)
- Chan, J. C. C., Beifiori, A., Saglia, R. P., et al.: *The KMOS Cluster Survey (KCS). II. The Effect of Environment on the Structural Properties of Massive Cluster Galaxies at Redshift $1.39 < z < 1.61$* . ApJ **856**, 8 (2018)

- Chan, K. C., Crocce, M., Ross, A. J., et al.: *BAO from angular clustering: optimization and mitigation of theoretical systematics*. MNRAS **480**, 3031 (2018)
- Chang, C., Baxter, E., Jain, B., et al.: *The Splashback Feature around DES Galaxy Clusters: Galaxy Density and Weak Lensing Profiles*. ApJ **864**, 83 (2018)
- Chang, C., Pujol, A., Mawdsley, B., et al.: *Dark Energy Survey Year 1 results: curved-sky weak lensing mass map*. MNRAS **475**, 3165 (2018)
- Chirivì, G., Suyu, S. H., Grillo, C., et al.: *MACS J0416.1-2403: Impact of line-of-sight structures on strong gravitational lensing modelling of galaxy clusters*. A&A **614**, A8 (2018)
- Chiu, I., Mohr, J. J., McDonald, M., et al.: *Baryon content in a sample of 91 galaxy clusters selected by the South Pole Telescope at $0.2 < z < 1.25$* . MNRAS **478**, 3072 (2018)
- Choksi, N., Behroozi, P., Volonteri, M., et al.: *Recoiling supermassive black hole escape velocities from dark matter haloes*. MNRAS **472**, 1526 (2017)
- Chown, R., Otori, Y., Aylor, K., et al.: *Maps of the Southern Millimeter-wave Sky from Combined 2500 deg² SPT-SZ and Planck Temperature Data*. ApJS **239**, 10 (2018)
- Cilibrasi, M., Szulágyi, J., Mayer, L., et al.: *Satellites form fast and late: a population synthesis for the Galilean moons*. MNRAS **480**, 4355 (2018)
- Coccatto, L., Fabricius, M. H., Saglia, R. P., et al.: *Spectroscopic decomposition of NGC 3521: unveiling the properties of the bulge and disc*. MNRAS **477**, 1958 (2018)
- Colavincenzo, M., Sefusatti, E., Monaco, P., et al.: *Comparing approximate methods for mock catalogues and covariance matrices III: Bispectrum*. MNRAS (2018)
- Coogan, R. T., Daddi, E., Sargent, M. T., et al.: *Merger-driven star formation activity in Cl J1449+0856 at $z = 1.99$ as seen by ALMA and JVLA*. MNRAS **479**, 703 (2018)
- Costanzi, M., Roza, E., Rykoff, E. S., et al.: *Modelling projection effects in optically selected cluster catalogues*. MNRAS **482**, 490 (2019)
- Crocce, M., Ross, A. J., Sevilla-Noarbe, I., et al.: *Dark Energy Survey year 1 results: galaxy sample for BAO measurement*. MNRAS **482**, 2807 (2019)
- Cui, W., Knebe, A., Yepes, G., et al.: *The Three Hundred project: a large catalogue of theoretically modelled galaxy clusters for cosmological and astrophysical applications*. MNRAS **480**, 2898 (2018)
- Davis, C., Roza, E., Roodman, A., et al.: *Cross-correlation redshift calibration without spectroscopic calibration samples in DES Science Verification Data*. MNRAS **477**, 2196 (2018)
- de Bernardis, P., Ade, P. A. R., Baselmans, J. J. A., et al.: *Exploring cosmic origins with CORE: The instrument*. J. Cosmology Astropart. Phys. **4**, 015 (2018)
- De Boni, C., Böhringer, H., Chon, G., et al.: *Evolution of the degree of substructures in simulated galaxy clusters*. MNRAS **478**, 2086 (2018)
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