

A Publication List

(Papers with U. Vienna affiliation 2011–2015 ordered reversely by publication date)

Peer reviewed main journals:

A&A: Astronomy and Astrophysics

ApJ: Astrophysical Journal

ApJL: Astrophysical Journal Letter

MNRAS: Monthly Notices of the Royal Astronomical Society

Group members:

Dannerbauer, H., Maier, C., Verdugo, M., Kuchner, U.

Publications in Refereed Journals (2015–2011):

- [1] Boehm, A., Ziegler, B. L. 2015. Disk galaxy scaling relations at intermediate redshifts - I. The Tully-Fisher and velocity-size relations. Astronomy and Astrophysics sub., ArXiv e-prints arXiv:1507.07353.
- [2] Eigenthaler, P., Ploeckinger, S., Verdugo, M., Ziegler, B. 2015. Star formation properties of Hickson Compact Groups based on deep H α imaging. Monthly Notices of the Royal Astronomical Society 451, 2793-2813.
- [3] Girardi, M., and 37 colleagues 2015. CLASH-VLT: Substructure in the galaxy cluster MACS J1206.2-0847 from kinematics of galaxy populations. Astronomy and Astrophysics 579, A4.
- [4] Maier, C., Ziegler, B. L., Lilly, S. J., Contini, T., Pérez-Montero, E., Lamareille, F., Bolzonella, M., Le Flo'c'h, E. 2015. Mass-metallicity relation of zCOSMOS galaxies at $z \approx 0.7$, its dependence on star formation rate, and the existence of massive low-metallicity galaxies. Astronomy and Astrophysics 577, A14.
- [5] Barrera-Ballesteros, J. K., and 29 colleagues 2015. Tracing kinematic (mis)alignments in CALIFA merging galaxies: Stellar and ionized gas kinematic orientations at every merger stage. ArXiv e-prints arXiv:1506.03819.
- [6] García-Benito, R., and 74 colleagues 2015. CALIFA, the Calar Alto Legacy Integral Field Area survey. III. Second public data release. Astronomy and Astrophysics 576, A135.
- [7] Aguerri, J. A. L., and 27 colleagues 2015. Bar pattern speeds in CALIFA galaxies. I. Fast bars across the Hubble sequence. Astronomy and Astrophysics 576, A102.
- [8] Evans, C., and 70 colleagues 2015. The Science Case for Multi-Object Spectroscopy on the European ELT. ArXiv e-prints arXiv:1501.04726.
- [9] Sánchez, S. F., and 28 colleagues 2015. Imprints of galaxy evolution on H II regions. Memory of the past uncovered by the CALIFA survey. Astronomy and Astrophysics 574, A47.
- [10] García-Lorenzo, B., and 30 colleagues 2015. Ionized gas kinematics of galaxies in the CALIFA survey. I. Velocity fields, kinematic parameters of the dominant component, and presence of kinematically distinct gaseous systems. Astronomy and Astrophysics 573, A59.

- [11] Annunziatella, M., and 31 colleagues 2014. CLASH-VLT: The stellar mass function and stellar mass density profile of the $z = 0.44$ cluster of galaxies MACS J1206.2-0847. *Astronomy and Astrophysics* 571, A80.
- [12] Dannerbauer, H., and 18 colleagues 2014. An excess of dusty starbursts related to the Spiderweb galaxy. *Astronomy and Astrophysics* 570, A55.
- [13] Maier, C., Lilly, S. J., Ziegler, B. L., Contini, T., Pérez Montero, E., Peng, Y., Balestra, I. 2014. The Mass-Metallicity and Fundamental Metallicity Relations at $z > 2$ Using Very Large Telescope and Subaru Near-infrared Spectroscopy of zCOSMOS Galaxies. *The Astrophysical Journal* 792, 3.
- [14] Walcher, C. J., and 50 colleagues 2014. CALIFA: a diameter-selected sample for an integral field spectroscopy galaxy survey. *Astronomy and Astrophysics* 569, A1.
- [15] González Delgado, R. M., and 29 colleagues 2014. Insights on the Stellar Mass-Metallicity Relation from the CALIFA Survey. *The Astrophysical Journal* 791, L16.
- [16] Barrera-Ballesteros, J. K., and 23 colleagues 2014. Kinematic alignment of non-interacting CALIFA galaxies. Quantifying the impact of bars on stellar and ionised gas velocity field orientations. *Astronomy and Astrophysics* 568, A70.
- [17] Wild, V., and 45 colleagues 2014. The Mice at play in the CALIFA survey. A case study of a gas-rich major merger between first passage and coalescence. *Astronomy and Astrophysics* 567, A132.
- [18] Jaffé, Y. L., Aragón-Salamanca, A., Ziegler, B., Kuntschner, H., Zaritsky, D., Rudnick, G., Poggianti, B. M., Hoyos, C., Halliday, C., Demarco, R. 2014. Ionized gas discs in elliptical and S0 galaxies at $z < 1$. *Monthly Notices of the Royal Astronomical Society* 440, 3491-3502.
- [19] Guennou, L., and 36 colleagues 2014. Mass profile and dynamical status of the $z \sim 0.8$ galaxy cluster LCDCS 0504. *Astronomy and Astrophysics* 566, A149.
- [20] Presotto, V., and 48 colleagues 2014. Intracluster light properties in the CLASH-VLT cluster MACS J1206.2-0847. *Astronomy and Astrophysics* 565, A126.
- [21] Sartoris, B., and 41 colleagues 2014. CLASH-VLT: Constraints on the Dark Matter Equation of State from Accurate Measurements of Galaxy Cluster Mass Profiles. *The Astrophysical Journal* 783, L11.
- [22] Ferreras, I., Böhm, A., Ziegler, B., Silk, J. 2014. Age-dating the Tully-Fisher relation at moderate redshift. *Monthly Notices of the Royal Astronomical Society* 437, 1872-1881.
- [23] Mast, D., and 29 colleagues 2014. The effects of spatial resolution on integral field spectrograph surveys at different redshifts - The CALIFA perspective. *Astronomy and Astrophysics* 561, A129.
- [24] Guennou, L., and 31 colleagues 2014. Structure and substructure analysis of DAFT/FADA galaxy clusters in the [0.4-0.9] redshift range. *Astronomy and Astrophysics* 561, A112.
- [25] Balestra, I., and 43 colleagues 2013. CLASH-VLT: spectroscopic confirmation of a $z = 6.11$ quintuply lensed galaxy in the Frontier Fields cluster RXC J2248.7-4431. *Astronomy and Astrophysics* 559, L9.

- [26] Marino, R. A., and 33 colleagues 2013. The O3N2 and N2 abundance indicators revisited: improved calibrations based on CALIFA and T_e -based literature data. *Astronomy and Astrophysics* 559, A114.
- [27] Singh, R., and 20 colleagues 2013. The nature of LINER galaxies: Ubiquitous hot old stars and rare accreting black holes. *Astronomy and Astrophysics* 558, A43.
- [28] Biviano, A., and 46 colleagues 2013. CLASH-VLT: The mass, velocity-anisotropy, and pseudo-phase-space density profiles of the $z = 0.44$ galaxy cluster MACS J1206.2-0847. *Astronomy and Astrophysics* 558, A1.
- [29] Papaderos, P., and 22 colleagues 2013. Nebular emission and the Lyman continuum photon escape fraction in CALIFA early-type galaxies. *Astronomy and Astrophysics* 555, L1.
- [30] Bösch, B., Böhm, A., Wolf, C., Aragón-Salamanca, A., Ziegler, B. L., Barden, M., Gray, M. E., Balogh, M., Meisenheimer, K., Schindler, S. 2013. Tully-Fisher analysis of the multiple cluster system Abell 901/902. *Astronomy and Astrophysics* 554, A97.
- [31] Sánchez, S. F., and 42 colleagues 2013. Mass-metallicity relation explored with CALIFA. I. Is there a dependence on the star-formation rate?. *Astronomy and Astrophysics* 554, A58.
- [32] Iglesias-Páramo, J., and 40 colleagues 2013. Aperture corrections for disk galaxy properties derived from the CALIFA survey. Balmer emission lines in spiral galaxies. *Astronomy and Astrophysics* 553, L7.
- [33] Bösch, B., Böhm, A., Wolf, C., Aragón-Salamanca, A., Barden, M., Gray, M. E., Ziegler, B. L., Schindler, S., Balogh, M. 2013. Ram pressure and dusty red galaxies - key factors in the evolution of the multiple cluster system Abell 901/902. *Astronomy and Astrophysics* 549, A142.
- [34] Husemann, B., and 75 colleagues 2013. CALIFA, the Calar Alto Legacy Integral Field Area survey. II. First public data release. *Astronomy and Astrophysics* 549, A87.
- [35] Verdugo, M., Lerchster, M., Böhringer, H., Hildebrandt, H., Ziegler, B. L., Erben, T., Finoguenov, A., Chon, G. 2012. The Cosmic Web and galaxy evolution around the most luminous X-ray cluster: RX J1347.5-1145. *Monthly Notices of the Royal Astronomical Society* 421, 1949-1968.
- [36] Kehrig, C., and 20 colleagues 2012. The ionized gas in the CALIFA early-type galaxies. I. Mapping two representative cases: NGC 6762 and NGC 5966. *Astronomy and Astrophysics* 540, A11.
- [37] Sánchez, S. F., and 71 colleagues 2012. CALIFA, the Calar Alto Legacy Integral Field Area survey. I. Survey presentation. *Astronomy and Astrophysics* 538, A8.
- [38] Tonini, C., Maraston, C., Ziegler, B., Böhm, A., Thomas, D., Devriendt, J., Silk, J. 2011. The hierarchical build-up of the Tully-Fisher relation. *Monthly Notices of the Royal Astronomical Society* 415, 811-828.
- [39] Da Rocha, C., Mieske, S., Georgiev, I. Y., Hilker, M., Ziegler, B. L., Mendes de Oliveira, C. 2011. Two formation channels of ultra-compact dwarf galaxies in Hickson compact groups. *Astronomy and Astrophysics* 525, A86.

Publications in non refereed journals (2015–2011): (cited as N# above)

- [1] Ziegler, B. L., Böhm, A. 2015. Kinematic Evolution of Field and Cluster Spiral Galaxies. IAU Symposium 311, 146-149.
- [2] Ziegler, B. L., Combes, F., Dannerbauer, H., Verdugo, M. 2015. Galaxies in 3D across the Universe. IAU Symposium 309, conference proceedings.
- [3] Kuchner, U., Maier, C., Ziegler, B., Verdugo, M., Czoske, O., Rosati, P., Balestra, I., Mercurio, A., Nonino, M. 2015. Is there a dependence in metallicity evolution on galaxy structures?. IAU Symposium 309, 289-290.
- [4] Maier, C., Lilly, S. J., Ziegler, B. L. 2015. Oxygen abundances of zCOSMOS galaxies at $z \sim 1.4$ based on five lines and implications for the fundamental metallicity relation. IAU Symposium 309, 281-282.
- [5] Evans, C. J., and 57 colleagues 2014. Science case and requirements for the MOSAIC concept for a multi-object spectrograph for the European Extremely Large Telescope. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series 9147, 914796.
- [6] Evans, C., and 20 colleagues 2013. ELT-MOS White Paper: Science Overview & Requirements. ArXiv e-prints arXiv:1303.0029.
- [7] Iodice, E., and 37 colleagues 2012. The structure of the barred galaxy NGC253: target of the VISTA and VST Science Verification extragalactic mini-survey.. *Memorie della Societa Astronomica Italiana* 83, 1174-1177.
- [8] Fritz, A., Ziegler, B. L. 2011. The Evolution of Spheroidal Galaxies in Different Environments. Contributed poster at EAS Symposia 'S9 Galaxy Evolution: The Key for Galaxy Formation Theories' of the JENAM 2011 European Week of Astronomy and Space Science (EWASS), Saint-Petersburg, Russia, 4-8 July 2011. <http://jenam2011.org/conf/>. Edited by B. Rocca-Volmerange and A. Dosroshkevich, online at ftp://ftp.iap.fr/pub/from_users/rocca/incoming/JENAM2011_Session9/ 2.
- [9] Ziegler, B. 2011. The Cosmic Web and galaxy evolution around the most luminous X-ray cluster. *Galaxy Formation* P65.
- [10] Böhm, A., Ziegler, B. L. 2011. Testing the Hierarchical Scenario with Field Disk Galaxy Evolution. *Environment and the Formation of Galaxies: 30 Years Later* 129.