

*Prof. Dr. Bodo L. Ziegler*

## **Publication List**

(ordered reversely by publication date; last revision: September 15, 2015)

*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 (2015–2005):**

- [1] Eigenthaler, P., Ploeckinger, S., Verdugo, M., Ziegler, B. 2015. Star formation properties of Hickson Compact Groups based on deep H $\alpha$  imaging. Monthly Notices of the Royal Astronomical Society 451, 2793-2813.
- [2] 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.
- [3] 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.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] 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.
- [8] 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.

- [9] Dannerbauer, H., and 18 colleagues 2014. An excess of dusty starbursts related to the Spiderweb galaxy. *Astronomy and Astrophysics* 570, A55.
- [10] 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  $z \sim 2$  Using Very Large Telescope and Subaru Near-infrared Spectroscopy of zCOSMOS Galaxies. *The Astrophysical Journal* 792, 3.
- [11] Walcher, C. J., and 50 colleagues 2014. CALIFA: a diameter-selected sample for an integral field spectroscopy galaxy survey. *Astronomy and Astrophysics* 569, A1.
- [12] González Delgado, R. M., and 29 colleagues 2014. Insights on the Stellar Mass-Metallicity Relation from the CALIFA Survey. *The Astrophysical Journal* 791, L16.
- [13] 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.
- [14] 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.
- [15] 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  $z \sim 1$ . *Monthly Notices of the Royal Astronomical Society* 440, 3491-3502.
- [16] 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.
- [17] Presotto, V., and 48 colleagues 2014. Intracluster light properties in the CLASH-VLT cluster MACS J1206.2-0847. *Astronomy and Astrophysics* 565, A126.
- [18] 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.
- [19] 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.
- [20] 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.
- [21] 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.

- [22] 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.
- [23] 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.
- [24] 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.
- [25] 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.
- [26] 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.
- [27] 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.
- [28] 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.
- [29] 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.
- [30] 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.
- [31] 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.
- [32] 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.
- [33] 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.
- [34] Sánchez, S. F., and 71 colleagues 2012. CALIFA, the Calar Alto Legacy Integral Field Area survey. I. Survey presentation. *Astronomy and Astrophysics* 538, A8.

- [35] 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.
- [36] 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.
- [37] Kutdemir, E., Ziegler, B. L., Peletier, R. F., Da Rocha, C., Böhm, A., Verdugo, M. 2010. Internal kinematics of spiral galaxies in distant clusters. IV. Gas kinematics of spiral galaxies in intermediate redshift clusters and in the field. *Astronomy and Astrophysics* 520, A109.
- [38] Fritz, A., Ziegler, B. L. 2009. The evolution of spheroidal galaxies in different environments. *Astronomische Nachrichten* 330, 1010.
- [39] Kapferer, W., Sluka, C., Schindler, S., Ferrari, C., Ziegler, B. 2009. The effect of ram pressure on the star formation, mass distribution and morphology of galaxies. *Astronomy and Astrophysics* 499, 87-102.
- [40] Fritz, A., Böhm, A., Ziegler, B. L. 2009. The evolution of field early-type galaxies in the FDF and WHDF. *Monthly Notices of the Royal Astronomical Society* 393, 1467-1492.
- [41] Kutdemir, E., and 10 colleagues 2008. Internal kinematics of spiral galaxies in distant clusters. III. Velocity fields from FORS2/MXU spectroscopy. *Astronomy and Astrophysics* 488, 117-131.
- [42] Da Rocha, C., Ziegler, B. L., Mendes de Oliveira, C. 2008. Intragroup diffuse light in compact groups of galaxies - II. HCG 15, 35 and 51. *Monthly Notices of the Royal Astronomical Society* 388, 1433-1443.
- [43] Verdugo, M., Ziegler, B. L., Gerken, B. 2008. The galaxy populations from the centers to the infall regions in  $z \approx 0.25$  clusters. *Astronomy and Astrophysics* 486, 9-24.
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- [45] Böhm, A., Ziegler, B. L. 2007. Evolution of Field Spiral Galaxies up to Redshifts  $z = 1$ . *The Astrophysical Journal* 668, 846-852.
- [46] Kronberger, T., Kapferer, W., Schindler, S., Ziegler, B. L. 2007. 2D velocity fields of simulated interacting disc galaxies. *Astronomy and Astrophysics* 473, 761-770.
- [47] Kronberger, T., Kapferer, W., Schindler, S., Böhm, A., Kutdemir, E., Ziegler, B. L. 2006. Internal kinematics of modelled interacting disc galaxies. *Astronomy and Astrophysics* 458, 69-78.
- [48] Gabasch, A., and 14 colleagues 2006. The evolution of the luminosity functions in the FORS deep field from low to high redshift. II. The red bands. *Astronomy and Astrophysics* 448, 101-121.

- [49] Kapferer, W., Kronberger, T., Schindler, S., Böhm, A., Ziegler, B. L. 2006. Internal kinematics of isolated modelled disc galaxies. *Astronomy and Astrophysics* 446, 847-854.
- [50] Böhm, A., Ziegler, B. L. 2005. The Evolution of Field Spiral Galaxies over the Past 8 Gyr. *Reviews in Modern Astronomy* 18, 106-124.
- [51] Verdugo, M., Ziegler, B. 2005. Galaxy populations in the infall regions of intermediate redshift clusters.. *Astronomische Nachrichten* 326, 517-518.
- [52] Kronberger, T., Kapferer, W., Schindler, S., van Kampen, E., Kimeswenger, S., Mair, M., Domainko, W., Boehm, A., Ziegler, B. L. 2005. Star formation rates and kinematics of modelled interactions galaxies.. *Astronomische Nachrichten* 326, 498-499.
- [53] Da Rocha, C., Mendes de Oliveira, C., Ziegler, B. L. 2005. Wavelet analysis on intra-group light in Hickson compact groups.. *Astronomische Nachrichten* 326, 488-489.
- [54] Ziegler, B. L., Thomas, D., Böhm, A., Bender, R., Fritz, A., Maraston, C. 2005. Kinematic and chemical evolution of early-type galaxies. *Astronomy and Astrophysics* 433, 519-530.
- [55] Fritz, A., Ziegler, B. L., Bower, R. G., Smail, I., Davies, R. L. 2005. On the evolutionary status of early-type galaxies in clusters at  $z \sim 0.2$  - I. The Fundamental Plane. *Monthly Notices of the Royal Astronomical Society* 358, 233-255.

**Publications in non refereed journals (2015–2005):**

- [1] 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.
- [2] Girardi, M., and 37 colleagues 2015. VizieR Online Data Catalog: MCS J1206.2-0847 galaxies spectral classification (Girardi+, 2015). *VizieR Online Data Catalog* 357, 90004.
- [3] Ziegler, B. L., Böhm, A. 2015. Kinematic Evolution of Field and Cluster Spiral Galaxies. *IAU Symposium* 311, 146-149.
- [4] Garcia-Lorenzo, B., and 31 colleagues 2015. VizieR Online Data Catalog: Gas kinematics in CALIFA survey (Garcia-Lorenzo+, 2015). *VizieR Online Data Catalog* 357, 30059.
- [5] 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.
- [6] 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.

- [7] Ziegler, B. L., Combes, F., Dannerbauer, H., Verdugo, M. 2015. Galaxies in 3D across the Universe. IAU Symposium 309, .
- [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] Dannerbauer, H., and 18 colleagues 2014. VizieR Online Data Catalog: Spiderweb galaxy 870um and 1.4GHz images (Dannerbauer+, 2014). VizieR Online Data Catalog 357, 55.
- [10] Dannerbauer, H., and 20 colleagues 2014. Characterizing Dusty Starbursts at  $z=2.2$  in a High Density Field. ATNF Proposal 6378.
- [11] 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.
- [12] Marino, R. A., and 33 colleagues 2013. VizieR Online Data Catalog: Updated O3N2 and N2 abundance indicators (Marino+, 2013). VizieR Online Data Catalog 355, 90114.
- [13] Verdugo, M., Ziegler, B. 2013. RXJ1347(11)  $z \approx 0.45$  Cluster Complex on 20x20Mpc Scale. Tracing Cosmic Evolution with Clusters of Galaxies, a conference held 1-5 July, 2013 in Sexton, Italy. Online at <http://www.sexten-cfa.eu/en/conferences/2013/details/34-SestoClusters2013.html> ; <http://www.sexten-cfa.eu/en/conferences/2013/details/34-SestoClusters2013.html/Aj>, id.110 110.
- [14] Kuchner, U., Ziegler, B., Dannerbauer, H., Verdugo, M., Czoske, O., Ivanov, V. 2013. The Activity of Galaxies in Clusters: Verification and Inspection of 3 Clusters in One Shot. Tracing Cosmic Evolution with Clusters of Galaxies, a conference held 1-5 July, 2013 in Sexton, Italy. Online at <http://www.sexten-cfa.eu/en/conferences/2013/details/34-SestoClusters2013.html> ; <http://www.sexten-cfa.eu/en/conferences/2013/details/34-SestoClusters2013.html/Aj>, id.98 98.
- [15] Fritz, A., Ziegler, B. 2013. The Evolution of the Stellar Content in Cluster Early-Type Glaxies. Tracing Cosmic Evolution with Clusters of Galaxies, a conference held 1-5 July, 2013 in Sexton, Italy. Online at <http://www.sexten-cfa.eu/en/conferences/2013/details/34-SestoClusters2013.html> ; <http://www.sexten-cfa.eu/en/conferences/2013/details/34-SestoClusters2013.html/Aj>, id.97 97.
- [16] Evans, C., and 20 colleagues 2013. ELT-MOS White Paper: Science Overview Requirements. ArXiv e-prints arXiv:1303.0029.
- [17] Kutdemir, E., Ziegler, B. L., Peletier, R. F., Da Rocha, C., Boehm, A., Verdugo, M. 2012. VizieR Online Data Catalog: Gas kinematics of spiral galaxies (Kutdemir+, 2010). VizieR Online Data Catalog 352, 109.

- [18] 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.
- [19] 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](ftp://ftp.iap.fr/pub/from_users/rocca/incoming/JENAM2011.Session9/2).
- [20] Ziegler, B. 2011. The Cosmic Web and galaxy evolution around the most luminous X-ray cluster. *Galaxy Formation* P65.
- [21] 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.
- [22] Ziegler, B. L., Kutdemir, E., Da Rocha, C., Böhm, A., Peletier, R. F., Verdugo, M. 2010. Kinematic and Structural Evolution of Field and Cluster Spiral Galaxies. *Galaxies in Isolation: Exploring Nature Versus Nurture* 421, 197.
- [23] Böhm, A., Ziegler, B. L. 2010. Disk Galaxy Evolution Since Redshift  $z = 1$ . *American Institute of Physics Conference Series* 1295, 33-41.
- [24] Rupprecht, G., Böhnhardt, H., Moehler, S., Møller, P., Saviane, I., Ziegler, B. 2010. Twenty Years of FORS Science Operations on the VLT. *The Messenger* 140, 2-7.
- [25] Kapferer, W., Schindler, S., Ziegler, B., Ferrari, C. 2010. The effect of ram pressure on the star formation, mass distribution and morphology of galaxies. *38th COSPAR Scientific Assembly* 38, 2634.
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- [27] Ziegler, B., Kutdemir, E., Da Rocha, C., Böhm, A., Kapferer, W., Kuntschner, H., Peletier, R., Schindler, S., Verdugo, M. 2009. Velocity Fields of Distant Galaxies with FORS2. *The Messenger* 137, 34-40.
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- [29] Tobehn, C., Penné, B., Kassebom, M., Ziegler, B., Mahal, S., Greinacher, R., Holsten, S., Borowy, C. 2008. Earth Observation Missions at OHB System. *ESA Special Publication* 660, 53.
- [30] Verdugo, M., Ziegler, B. L., Gerken, B. 2008. VizieR Online Data Catalog: Redshifts in  $z \sim 0.25$  clusters (Verdugo+, 2008). *VizieR Online Data Catalog* 348, 60009.

- [31] Böhm, A., Ziegler, B. L. 2007. The Evolution of Disk Galaxies since  $z=1$ . *Cosmic Frontiers* 379, 278.
- [32] Kutdemir, E., Ziegler, B., Peletier, R. F. 2007. Velocity Fields of Spiral Galaxies in  $z0.5$  Clusters. *IAU Symposium* 241, 569-570.
- [33] Böhm, A., Ziegler, B. L. 2007. The Evolution of Disk Galaxy Scaling Relations Since Redshift  $z = 1$ . *IAU Symposium* 235, 391-391.
- [34] Ziegler, B. L., Kutdemir, E., Böhm, A., Jäger, K., Verdugo, M., Peletier, R., Kronberger, T., Kapferer, W., Schindler, S. 2007. Distant Galaxy Transformation Probed by VLT and HST. *IAU Symposium* 235, 258-258.
- [35] Verdugo, M., Ziegler, B. L. 2007. Galaxy Population in the Infall Regions of Intermediate Redshift Clusters. *IAU Symposium* 235, 254-254.
- [36] Kronberger, T., Kapferer, W., Schindler, S., Böhm, A., Kutdemir, E., Ziegler, B. L. 2007. Internal Kinematics of Modelled Isolated and Interacting Disc Galaxies. *IAU Symposium* 235, 216-216.
- [37] Da Rocha, C., Ziegler, B. L., Mendes de Oliveira, C. 2007. Dynamical Evolution in Hickson Compact Groups using Intragroup Light. *IAU Symposium* 235, 199-199.
- [38] Alizadeh, M., Fritz, A., Da Rocha, C., Ziegler, B. L. 2007. K-band Evolution of Elliptical Galaxies in the Cluster Abell 2390 at  $z=0.23$ . *IAU Symposium* 235, 187-187.
- [39] Boehm, A., Ziegler, B. L. 2006. The Evolution of Disk Galaxies Since  $z=1$ . *ArXiv Astrophysics e-prints arXiv:astro-ph/0611326*.
- [40] Verdugo, M., Ziegler, B. L. 2006. Galaxy populations in the infall regions of  $z \sim 0.25$  clusters. *Revista Mexicana de Astronomía y Astrofísica Conference Series* 26, 201.
- [41] Fritz, A., Ziegler, B. L., Bower, R. G., Smail, I., Davies, R. L. 2006. VizieR Online Data Catalog: UBIc photometry of ACO2390 early-type galaxies (Fritz+, 2005). *VizieR Online Data Catalog* 735, 80233.
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- [43] Ziegler, B. L., Böhm, A., Fritz, A. 2006. Downsizing Scaling Relations. *EAS Publications Series* 20, 303-304.
- [44] Da Rocha, C., Mendes de Oliveira, C., Ziegler, B. L. 2006. Intra-group Light in Hickson Compact Groups. *EAS Publications Series* 20, 273-274.
- [45] Kapferer, W., Kronberger, T., Schindler, S., Boehm, A., Ziegler, B. L. 2005. Internal kinematics of isolated modelled disk galaxies. *ArXiv Astrophysics e-prints arXiv:astro-ph/0509534*.

- [46] Jaeger, K., Ziegler, B. L., Boehm, A., Heidt, J., Moellenhoff, C., Hopp, U., Mendez, R. H., Wagner, S. 2005. VizieR Online Data Catalog: Velocities of spiral galaxies in distant clusters (Jaeger+, 2004). VizieR Online Data Catalog 342, 20907.
- [47] Ziegler, B. 2005. Galaxy Transformation as probed by Morphology and Velocity Fields of Distant Cluster Galaxies. HST Proposal 10635.