

CURRICULUM VITAE

Name: **Dr. Asmus Böhm**
Place of birth: Kassel, Germany
Nationality: German
Address: Institute for Astrophysics
Türkenschanzstrasse 17
1180 Vienna, Austria
Email: asmus.boehm@univie.ac.at
Phone: +43-1427753826
Homepage: <http://homepage.univie.ac.at/asmus.boehm/>

EDUCATION & JOB HISTORY

05/2017 - present: University Assistant, Institute for Astrophysics, Vienna, AUT
02/2015 - 04/2017: External Scientist, Institute for Astro- and Particle Physics, Innsbruck, AUT
02/2009 - 01/2015: Research Assistant, Institute for Astro- and Particle Physics, Innsbruck, AUT
10/2005 - 01/2009: Postdoc, Leibniz Institute for Astrophysics, Potsdam, GER
12/2003 - 09/2005: Postdoc, University Observatory Göttingen, GER
06/1999 - 12/2003: PhD thesis at University Observatory Göttingen, GER, entitled
“The evolution of distant spiral galaxies in the FORS Deep Field”
(grade: summa cum laude)
12/1997 - 05/1999: Diploma thesis at University Observatory Göttingen, GER,
on photometry and spectroscopy of quasar environments
(grade: very good; thesis won “Berliner-Ungewitter” award)
10/1990 - 05/1999: Physics studies at University of Göttingen, GER

LANGUAGES

German (native speaker), English (fluent), French (basics)

FIELDS OF RESEARCH

- Kinematics of distant galaxies
- Clusters of galaxies & cluster-specific interaction processes
- Galaxy evolution, in particular utilizing galaxy scaling relations
- Surface brightness profile fitting, quantitative galaxy morphologies
- Stellar populations & spectrophotometric analysis of galaxies
- Galaxy surveys: core team member of
 - FORS Deep Field (150h VLT/FORS; PI I. Appenzeller, Heidelberg, GER)
 - OMEGA (90h GTC/OSIRIS; PI A. Aragón-Salamanca, Nottingham, UK)
 - STAGES (80 orbits HST/ACS; PI M. Gray, Nottingham, UK)
- Host galaxies of Active Galactic Nuclei
- Quasar environments & interaction-activity connection

PUBLICATIONS

- 49 refereed papers (one more submitted; 15 as first or second author)
- Most cited first author paper: 105 citations (Böhm et al. 2004, A&A, 420, 97)
- Total citations: 1691
- Total normalized citations: 148
- h-index: 23

EXPERIENCE

- Reduction and analysis of deep photometric and spectroscopic data
(2D: e.g. FORS, VIMOS; 3D: KMOS, SINFONI, VIMOS/IFU)
- Supervision and teaching on all levels: scholars, undergraduates, Master & PhD
- Dozens of contributed and invited talks at international conferences and workshops
- Programming languages: CSS, Fortran, HTML, IDL, Python
- Software packages: e.g. IRAF, GALFIT, MIDAS, Py3D, SExtractor, SuperMongo
- Operating systems: Linux, Unix, Windows
- Referee for ApJ, A&A, MNRAS
- Public outreach: frequent talks for pupils, students, teachers or amateur astronomers

SUCCESSFUL OBSERVING TIME PROPOSALS

- **143 hours as Principal Investigator with the ESO Very Large Telescope:**
(~ 800 kEUR according to the factor of 50 kEUR/VLT night used by ESO)
 - Observing Period 92, ID 092.B-0147: 20 h with SINFONI
“The tip of the iceberg — kinematics and mass distributions of the most massive disk galaxies at redshifts $z \approx 0.9$ ”
 - Observing Period 91, ID 091.B-0579: 26 h with VIMOS (IFU mode)
“Integral Field Units vs. slit spectroscopy: how to derive the kinematics of intermediate-redshift disk galaxies?”
 - Observing Period 90, ID 090.B-0705: 12.5 h with VIMOS (MOS mode)
“Dusty red galaxies: a smoking gun in the creation of cluster S0 galaxies?”
 - Observing Period 84, ID 384.A-0813: 9 h with VIMOS (MOS mode)
“A kinematic survey of disk galaxies in the A901/02 supercluster”
 - Observing Period 81, ID 081.B-0107: 25 h with FORS (MOS mode)
“The evolution of low-luminosity disk galaxies out to redshifts $z \approx 0.7$: evidence for down-sizing?”
 - Observing Period 81, ID 081.B-0110: 12.5 h with FORS (MOS mode)
“The missing link: correlating bulge velocity dispersion and disk maximum rotation velocity in spiral galaxies at intermediate redshifts”
 - Observing Period 79, ID 079.B-0246: 25 h with FORS (MOS mode)
“The evolution of low-luminosity disk galaxies out to redshifts $z \approx 0.7$: evidence for down-sizing?”
 - Observing Period 79, ID 079.B-0603: 12.5 h with FORS (MOS mode)
“The missing link: correlating bulge velocity dispersion and disk maximum rotation velocity in spiral galaxies at intermediate redshifts”
- Total amount of VLT time as Co-Investigator: 182 hours (17 proposals)
- Usage of other facilities as Co-Investigator:
 - Gran Telescopio Canarias: 113 h with OSIRIS (3 proposals)
 - Calar Alto 2.2m: 6 nights with PANIC (1 proposal)
 - HST: 27 orbits total with ACS (3 proposals) and NICMOS (1 proposal)
 - Gemini: 21 h with GMOS (1 proposal), 5 h with NIRI (1 proposal)

STUDENT SUPERVISION & TEACHING

- PhD students:
 - Florian Pranger* (Innsbruck, 10/2011-12/2014, thesis title: “Galaxy properties in cluster systems of different dynamical state”)
→ two accepted first author papers by the time of thesis defense
 - Benjamin Bösch* (Innsbruck, 02/2010-06/2013, thesis title: “Kinematic studies of disk galaxies inside and around the Abell 901/902 cluster system”)
→ two accepted first author papers by the time of thesis defense
- Master students: *Christopher Schurz* (Vienna, started 11/2017)
- Bachelor students:
 - Vienna: *Markus Levonyak* (started 02/2018), *Sanje Fenkart* (started 12/2017)
 - Innsbruck: *Kathrin Schmidt* (2012), *Eva Canaval* (2011), *Michael Neustetter* (2011)
- Supervision of students during semester break (projects ranging from 2 to 8 weeks):
1× at Göttingen university, 5× at Leibniz Institute Potsdam, 1× at Innsbruck university
- Lectures:
 - “Early Universe”, Vienna, 2018 (shared with Prof. B. Ziegler)
 - “Astronomy and Astrophysics I”, Potsdam, 2007/08 (shared with Prof. M. Steinmetz)
 - “Galactic and Extragalactic Astrophysics”, Potsdam, 2006/07
(frequent replacements of Prof. L. Wisotzki)
 - “Astronomy and Astrophysics II”, Berlin, 2006
(frequent replacements of Prof. L. Wisotzki)
- Seminars:
 - Bachelor seminar, Vienna, 2018
 - Bachelor seminar, Innsbruck, 2011 and 2012
 - “Extragalactic Astrophysics”, Innsbruck 2010/11 and 2011/12 (“AstroMundus”)
 - “Astronomy and Astrophysics II”, Innsbruck, 2010
 - “Astronomy and Astrophysics I”, Potsdam, 2007/08
 - “Astronomy and Astrophysics II”, Berlin, 2006
- Practicals:
 - Night-time telescope practicals, Innsbruck, 2009/10 & 2010
 - Block astrophysical practical Innsbruck, 2009/10
 - Astrophysical practical, Göttingen, multiple semesters
 - Laboratory practical “Experimental physics I”, Göttingen, 2002/03

List of Publications

Refereed Journals

50. Wolf, C., Weinzirl, T., Aragón-Salamanca, A., Gray, M. E., Rodriguez del Pino, B., Chies-Santos, A. L., Bamford, S. P., **Böhm, A.**, & Harborne, K. 2018, “OMEGA — OSIRIS Mapping of Emission-line Galaxies in A901/2: IV. Extinction of Star-Formation Estimators with Inclination”, MNRAS, submitted
49. Pérez, J. M., Ziegler, B. L., Verdugo, M., **Böhm, A.**, & Tanaka, M. 2017 “Galaxy kinematics in the XMM2235 cluster field at $z \approx 1.4$ ”, A&A, 605, A127
48. Weinzirl, T., Aragón-Salamanca, A., Gray, M. E., Bamford, S. P., Rodriguez del Pino, B., Chies-Santos, A. L., **Böhm, A.**, Wolf, C., & Cool, R. J. 2017, “OMEGA — OSIRIS Mapping of Emission-line Galaxies in A901/2: III. — Galaxy Properties Across Projected Phase Space in A901/2”, MNRAS, 471, 182
47. Rodriguez del Pino, B., Aragón-Salamanca, A., Chies-Santos, A. L., Weinzirl, T., Bamford, S. P., Gray, M. E., Maltby, D., Wolf, C., & **Böhm, A.** 2017, “OMEGA — OSIRIS Mapping of Emission-line Galaxies in A901/2: II. — Environmental influence on integrated star formation properties and AGN activity”, MNRAS, 467, 4200
46. **Böhm, A.** & Ziegler, B.L. 2016, “Disk galaxy scaling relations at intermediate redshifts I. The Tully-Fisher and velocity-size relations”, A&A, 592, A64
45. Hoyos, C., Aragón-Salamanca, A., Gray, M. E., Wolf, C., Maltby, D., Bell, E. F., **Böhm, A.**, & Jogee, S. 2016, “Linking the Structural Properties of Galaxies and their Star Formation Histories with STAGES”, MNRAS, 455, 295
44. Chies-Santos, A. L., Rodriguez del Pino, B., Aragón-Salamanca, A., Bamford, S. P., Gray, M. E., Wolf, C., **Böhm, A.** Maltby, D., Pintos-Castro, I., Sanchez-Portal, M., & Weinzirl, T. 2015, “OMEGA — OSIRIS Mapping of Emission-line Galaxies in A901/2: I. — Survey description, data analysis, and star formation and AGN activity in the highest density regions”, MNRAS, 450, 4458
43. Maltby, D. T., Aragón-Salamanca, A., Gray, M.E., Hoyos, C., Wolf, C., Jogee, S., & **Böhm, A.** 2015, “The environmental dependence of the structure of galactic discs in STAGES S0 galaxies: implications for S0 formation”, MNRAS, 447, 1506
42. Pranger¹, F., **Böhm, A.**, Ferrari, C., Maurogordato, S., Benoist, C., Höller, H., & Schindler, S. 2014, “Abell 2384: the galaxy population of a cluster post-merger”, A&A, 570, A40
41. Ferreras, I., **Böhm, A.**, Ziegler, B.L., & Silk, J. 2014, “Age-dating the Tully-Fisher relation at moderate redshift”, MNRAS, 437, 1872

¹ F. Pranger is a former PhD student supervised by me at Innsbruck University. He successfully defended his thesis in December 2014.

40. Pranger¹, F., **Böhm, A.**, Ferrari, C., Diaferio, A., Hunstead, R. W., Maurogordato, S., Benoist, C., Brinchmann, J., & Schindler, S. 2013, “The galaxy population of the complex cluster system Abell 3921”, *A&A*, 557, A62 (NB: an erratum to this paper was published in 2014, *A&A*, 567, C1, containing a small correction to the star formation rates; all conclusions remained unchanged)
39. Bösch², 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”, *A&A*, 554, A97
38. Bösch², 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”, *A&A*, 549, A142
37. **Böhm, A.**, Wisotzki, L., Bell, E. F., Jahnke, K., Wolf, C., Bacon, D., Barden, M., Gray, M. E., Hoeppe, G., Jogee, S., McIntosh, D. H., Peng, C. Y., Robaina, A. R., Balogh, M., Barazza, F. D., Caldwell, J. A. R., Heymans, C., Häußler, B., van Kampen, E., Lane, K., Meisenheimer, K., Sanchez, S. F., Taylor, A. N., Zheng, X. 2013, “AGN host galaxies at redshift $z \approx 0.7$: peculiar or not?”, *A&A*, 549, A46
36. Hoyos, C., Aragón-Salamanca, A., Gray, M. E., Maltby, D. T., Barazza, F. D., Bell, E. F., **Böhm, A.**, Häußler, B., Jahnke, K., Jogee, S., Lane, K. P., McIntosh, D. H., Wolf, C. 2012, “A new automatic method to identify galaxy mergers I. Description and application to the STAGES survey”, *MNRAS*, 419, 2703
35. Simon, P., Heymans, C., Schrabback, T., Taylor, A. N., Gray, M. E., van Waerbeke, L., Wolf, C., Bacon, D., Barden, M., **Böhm, A.**, Häußler, B., Jahnke, K., Jogee, S., van Kampen, E., Meisenheimer, K., Peng, C. Y. 2012, “Spatial matter density mapping of the STAGES Abell A901/2 supercluster field with 3D lensing”, *MNRAS*, 419, 998
34. Maltby, D. T., Gray, M. E., Aragón-Salamanca, A., Wolf, C., Bell, E. F., Jogee, S., Häußler, B., Barazza, F. D., **Böhm, A.**, Jahnke, K. 2012, “The environmental dependence of the structure of galactic discs in STAGES spiral galaxies”, *MNRAS*, 419, 669
33. Tonini, C., Maraston, C., Ziegler, B. L., **Böhm, A.**, Thomas, D., Devriendt, J., & Silk, J. 2011, “The hierarchical build-up of the Tully-Fisher relation”, *MNRAS*, 415, 811
32. Kutdemir, E., Ziegler, B. L., Peletier, R., 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”, *A&A*, 520, 109
31. Maltby, D. T., Aragón-Salamanca, A., Gray, M. E., Barden, M., Häußler, B., Wolf, C., Peng, C. Y., Jahnke, K., McIntosh, D. H., **Böhm, A.**, & van Kampen, E. 2010, “The environmental dependence of the stellar-mass-size relation in STAGES galaxies”, *MNRAS*, 402, 282
30. Barazza, F. D., Wolf, C., Gray, M. E., Jogee, S., Balogh, M., McIntosh, D. H., Bacon, D., Barden, M., Bell, E. F., **Böhm, A.**, Caldwell, J. A. R., Häußler, B., Heiderman, A., Heymans,

²B. Bösch is a former PhD student supervised by me at Innsbruck University. He successfully defended his thesis in June 2013.

- C., Jahnke, K., van Kampen, E., Lane, K., Marinova, I., Meisenheimer, K., Peng, C. Y., Sanchez, S. F., Taylor, A., Wisotzki, L., & Zheng, X. 2009, “Relating basic properties of bright early-type dwarf galaxies to their location in Abell 901/902”, *A&A*, 508, 665
29. Heiderman, A., Jogee, S., Marinova, I., van Kampen, E., Barden, M., Peng, C. Y., Heymans, C., Gray, M. E., Bell, E. F., Bacon, D., Balogh, M., Barazza, F. D., **Böhm, A.**, Caldwell, J. A. R., Häußler, B., Jahnke, K., Lane, K., McIntosh, D. H., Meisenheimer, K., Sanchez, S. F., Somerville, R., Taylor, A., Wisotzki, L., Wolf, C., & Zheng, X. 2009, “Interacting galaxies in the A901/902 Supercluster with STAGES”, *ApJ*, 705, 1433
28. Robaina, A. R., Bell, E. F., Skelton, R. E., McIntosh, D. H., Somerville, R. S., Zheng, X., Rix, H.-W., Bacon, D., Balogh, M., Barazza, F. D., Barden, M., **Böhm, A.**, Caldwell, J. A. R., Gallazzi, A., Gray, M. E., Häußler, B., Heymans, C., Jahnke, K., Jogee, S., van Kampen, E., Lane, K., Meisenheimer, K., Papovich, C., Peng, C. Y., Sanchez, S., Skibba, R., Taylor, A., Wisotzki, L., & Wolf, C. 2009, “Less than 10 Percent of star formation in $z \sim 0.6$ massive galaxies is triggered by major interactions”, *ApJ*, 704, 324
27. Jahnke, K., Elbaz, D., Pantin, E., **Böhm, A.**, Wisotzki, L., Letawe, G., Chantry, V., & Lagage, P.-O. 2009, “The QSO HE 0450-2958: Scantily Dressed or Heavily Robed? A Normal Quasar as Part of an Unusual ULIRG”, *ApJ*, 700, 1820
26. Marinova, I., Jogee, S., Heiderman, A., Barazza, F. D., Gray, M. E., Barden, M., Wolf, C., Peng, C. Y., Bacon, D., Balogh, M., Bell, E. F., **Böhm, A.**, Caldwell, J. A. R., Häußler, B., Heymans, C., Jahnke, K., van Kampen, E., Lane, K., McIntosh, D. H., Meisenheimer, K., Sanchez, S. F., Somerville, R., Taylor, A., Wisotzki, L., & Zheng, X. 2009, “Barred galaxies in the Abell 901/2 supercluster with STAGES”, *ApJ*, 698, 1639
25. Fritz, A., **Böhm, A.**, & Ziegler, B. L. 2009, “The evolution of field early-type galaxies in the FDF and WHDF”, *MNRAS*, 393, 1467
24. Wolf, C., Aragón-Salamanca, A., Balogh, M., Barden, M., Bell, E. F., Gray, M. E., Peng, C. Y., Bacon, D., Barazza, F. D., **Böhm, A.**, Caldwell, J. A. R., Gallazzi, A., Häußler, B., Heymans, C., Jahnke, K., Jogee, S., van Kampen, E., Lane, K., McIntosh, D. H., Meisenheimer, K., Papovich, C., Sanchez, S., Taylor, A., Wisotzki, L., & Zheng, X. 2009, “The STAGES view of red spirals and dusty red galaxies: mass-dependent quenching of star-formation in cluster infall”, *MNRAS*, 393, 1302
23. Gray, M. E., Wolf, C., Barden, M., Peng, C. Y., Häußler, B., Bell, E. F., McIntosh, D. H., Guo, Y., Caldwell, J. A. R., Bacon, D., Balogh, M., Barazza, F. D., **Böhm, A.**, Heymans, C., Jahnke, K., Jogee, S., van Kampen, E., Lane, K., Meisenheimer, K., Sanchez, S., Taylor, A., Wisotzki, L., Zheng, X., Green, D. A., Beswick, R. J., Saikia, D. J., Gilmour, R., Johnson, B. D., & Papovich, C. 2009, “STAGES: the Space Telescope A901/2 Galaxy Evolution Survey”, *MNRAS*, 393, 1275
22. Gallazzi, A., Bell, E. F., Wolf, C., Gray, M. E., Papovich, C., Barden, M., Peng, C. Y., Meisenheimer, K., Heymans, C., van Kampen, E., Gilmour, R., Balogh, M., McIntosh, D. H., Bacon, D., Barazza, F. D., **Böhm, A.**, Caldwell, J. A. R., Häußler, B., Jahnke, K., Jogee, S., Lane, K., Robaina, A. R., Sanchez, S., Taylor, A., Wisotzki, L., & Zheng, X. 2009, “Obscured

star formation in intermediate-density environments: a Spitzer study of the Abell 901/902 supercluster”, *ApJ*, 690, 1883

21. Kutdemir, E., Ziegler, B. L., Peletier, R. F., Da Rocha, C., Kronberger, T., Kapferer, W., Schindler, S., **Böhm, A.**, Jäger, K., Kuntschner, H., & Verdugo, M. 2008, “Internal kinematics of spiral galaxies in distant clusters”, *A&A*, 488, 117

20. Heymans, C., Gray, M. E., Peng, C. Y., Van Waerbeke, L., Bell, E. F., Wolf, C., Bacon, D., Balogh, M., Barazza, F. D., Barden, M., **Böhm, A.**, Caldwell, J. A. R., Häußler, B., Jahnke, K., Jogee, S., van Kampen, E., Kopesov, S., Lane, K., McIntosh, D. H., Meisenheimer, K., Mellier, Y., Rix, H.-W., Sanchez, S. F., Taylor, A. N., Wisotzki, L., & Zheng, X. 2008, “The dark matter environment of the Abell 901/902 supercluster: a weak lensing analysis of the HST STAGES survey”, *MNRAS*, 385, 1431

19. **Böhm, A.**, & Ziegler, B. L. 2007, “Evolution of field spiral galaxies up to redshifts $z=1$ ”, *ApJ*, 668, 846

18. Kronberger, T., Kapferer, W., Schindler, S., **Böhm, A.**, Kutdemir, E., & Ziegler, B.L. 2006, “Internal kinematics of modelled interacting disk galaxies”, *A&A*, 458, 69

17. Gabasch, A., Hopp, U., Feulner, G., Bender, R., Seitz, S., Saglia, R. P., Snigula, J., Drory, N., Appenzeller, I., Heidt, J., **Böhm, A.**, Jäger, K., & Ziegler, B. L. 2006, “The evolution of the luminosity functions in the FORS Deep Field from low to high redshift: II. The red bands”, *A&A*, 448, 101

16. Kapferer, W., Kronberger, T., Schindler, S., **Böhm, A.**, Ziegler, B. L. 2006, “Internal kinematics of isolated modelled disk galaxies”, *A&A*, 446, 847

15. **Böhm, A.**, & Ziegler, B. L. 2005, “The evolution of field spiral galaxies over the past 8 Gyr”, *RvMA*, 18, 106

14. Ziegler, B. L., Thomas, D., **Böhm, A.**, Bender, R., Fritz, A., & Maraston, C. 2005, “Kinematic and chemical evolution of early-type galaxies”, *A&A*, 433, 519

13. Ferreras, I., Silk, J., **Böhm, A.**, & Ziegler, B. L. 2004, “The star formation history of intermediate redshift late-type galaxies”, *MNRAS*, 355, 64

12. Fuchs, B., **Böhm, A.**, Möllenhoff, C., & Ziegler, B. L. 2004, “Quantitative interpretation of the rotation curves of spiral galaxies at redshifts $z \approx 0.7$ and $z \approx 1.0$ ”, *A&A*, 427, 95

11. Jäger, K., Ziegler, B. L., **Böhm, A.**, Heidt, J., Möllenhoff, C., Hopp, U., Mendez, R. H., & Wagner, S. 2004, “Internal kinematics of spiral galaxies in distant clusters. Part II. Observations and data analysis”, *A&A*, 422, 907

10. Gabasch, A., Bender, R., Seitz, S., Hopp, U., Saglia, R. P., Feulner, G., Snigula, J., Drory, N., Appenzeller, I., Heidt, J., Mehlert, D., Noll, S., **Böhm, A.**, Jäger, K., Ziegler, B. L., & Fricke, K. J. 2004, “The evolution of the luminosity functions in the FORS Deep Field from low to high redshift. I. The blue bands”, *A&A*, 421, 41

9. **Böhm, A.**, Ziegler, B. L., Saglia, R. P., Bender, R., Fricke, K. J., Gabasch, A., Heidt, J.,

- Mehlert, D., Noll, S., & Seitz, S. 2004, “The Tully-Fisher relation at intermediate redshift”, *A&A*, 420, 97
8. Noll, S., Mehlert, D., Appenzeller, I., Bender, R., **Böhm, A.**, Gabasch, A., Heidt, J., Hopp, U., Jäger, K., Seitz, S., Stahl, O., Tapken, C., & Ziegler, B. L. 2004, “The FORS Deep Field spectroscopic survey”, *A&A*, 418, 885
7. Ziegler, B. L., **Böhm, A.**, Jäger, K., Heidt, J., & Möllenhoff, C. 2003, “Internal kinematics of spiral galaxies in distant clusters”, *ApJL*, 598, 87
6. **Böhm, A.**, Ziegler, B. L., Fricke, K. J., & the FDF Team 2003, “Scaling relations of field spirals at intermediate redshift”, *Ap&SS*, 284, 689
5. Heidt, J., Appenzeller, I., Gabasch, A., Jäger, K., Seitz, S., Bender, R., **Böhm, A.**, Snigula, J., Fricke, K. J., Hopp, U., Kümmel, M., Möllenhoff, C., Szeifert, T., Ziegler, B. L., Drory, N., Mehlert, D., Moorwood, A., Nicklas, H., Noll, S., Saglia, R. P., Seifert, W., Stahl, O., Sutorius, E., & Wagner, S. J. 2003, “The FORS Deep Field: field selection, photometric observations and photometric catalog”, *A&A*, 398, 49
4. Mehlert, D., Noll, S., Appenzeller, I., Saglia, R. P., Bender, R., **Böhm, A.**, Drory, N., Fricke, K. J., Gabasch, A., Heidt, J., Hopp, U., Jäger, K., Möllenhoff, C., Seitz, S., Stahl, O., & Ziegler, B. L. 2002, “Evidence for chemical evolution in the spectra of high redshift galaxies”, *A&A*, 393, 809
3. Ziegler, B. L., **Böhm, A.**, Fricke, K. J., Jäger, K., Nicklas, H., Bender, R., Drory, N., Gabasch, A., Saglia, R. P., Seitz, S., Heidt, J., Mehlert, D., Möllenhoff, C., Noll, S., & Sutorius, E. 2002, “The evolution of the Tully-Fisher relation of spiral galaxies”, *ApJL*, 654, 69
2. Heidt, J., Appenzeller, I., Bender, R., **Böhm, A.**, Drory, N., Fricke, K. J., Gabasch, A., Hopp, U., Jäger, K., Kümmel, M., Mehlert, D., Möllenhoff, C., Moorwood, A., Nicklas, H., Noll, S., Saglia, R. P., Seifert, W., Seitz, S., Stahl, O., Sutorius, E., Szeifert, T., Wagner, S. J., & Ziegler, B. L. 2001, “The FORS Deep Field”, *RvMA*, 14, 209
1. Groot, P. J., Galama, T. J., Vreeswijk, P. M., ... (39 other co-authors) ..., **Böhm, A.**, & Fricke, K. J. 1998, “The rapid decay of the optical emission from GRB 980326 and its possible implication”, *ApJL*, 502, 123

Theses

- Böhm, A.** 2003, “The Evolution of Distant Spiral Galaxies in the FORS Deep Field”, PhD thesis, University of Göttingen, available for download at [this URL](#)
- Böhm, A.** 1999, “Analyse von Quasarumgebungen im niedrigen Rotverschiebungsbereich anhand von Direktbildern, Multiobjektspektren und Datenbanken”, diploma thesis, University of Göttingen

Non-refereed Publications

41. Ziegler, B.L., & **Böhm, A.** 2015, “Kinematic Evolution of Field and Cluster Spiral Galaxies”, proceedings of IAU Symp. 311 “Galaxy Masses as Constraints of Formation Models”, eds. M. Cappellari & S. Courteau, Cambridge Univ. Press, p. 146
40. **Böhm, A.**, & Ziegler, B. L. 2011, “Testing the Hierarchical Scenario with Field Disk Galaxy Evolution”, proceedings of the JENAM 2010 in Lisbon, Portugal, Sep 6-10 2010, Springer, 129
39. Marinova, I., Jogee, S., Heiderman, A., Barazza, F.D., Gray, M.E, Barden, M., Wolf, C., Peng, C.Y., Bacon, D., Balogh, M., Bell, E.F., **Böhm, A.**, et al. 2011, “Barred disks in dense environments”, in “Tumbling, twisting, and winding galaxies: Pattern speeds along the Hubble sequence”, E. M. Corsini and V. P. Debattista (eds.), *Memorie della Societa' Astronomica Italiana Supplement*, vol. 18, p. 61
38. **Böhm, A.**, & Ziegler, B. L. 2010, “Disk galaxy evolution since redshift $z = 1$ ”, proceedings of the “3rd Algerian workshop on Astronomy and Astrophysics” held in Constantine, Algeria, June 16-17 2009, AIP Conference Proceedings 1295, Mebarki, N., Mimouni, J. (eds.), 33
37. 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”, proceedings of the conference “Galaxies in Isolation: Exploring Nature vs. Nurture”, Granada 2009, ASP Conf. Ser. 421, Verdes-Montenegro, L., Sulentic, J. W., & del Olmo, A. (eds.), 197
36. Heiderman, A., Jogee, S., Marinova, I., . . . , **Böhm, A.**, et al. 2009, “Galaxy Mergers in the A901/902 Supercluster with STAGES”, proceedings of a conference held 11-14 November 2008 at the University of Texas, Austin, Texas, USA, ASP Conf. Ser. 419, Jogee, S., Marinova, I., Hao, L., & Blanc, G. A. (eds.), 257
35. Marinova, I., Jogee, S., Barazza, F. D., . . . , **Böhm, A.**, et al. 2009, “The Properties of Local Barred Disks in the Field and Dense Environments: Implications for Galaxy Evolution”, proceedings of a conference held 11-14 November 2008 at the University of Texas, Austin, Texas, USA, ASP Conf. Ser. 419, Jogee, S., Marinova, I., Hao, L., & Blanc, G. A. (eds.), 138
34. Wolf, C., Aragón-Salamanca, A., Balogh, M., . . . , **Böhm, A.**, et al. 2009, “Optically-Passive Spirals: the Missing Link in Gradual Star Formation Suppression upon Cluster Infall”, proceedings of the conference “The Starburst-AGN Connection”, held 27-31 October 2008, at Shanghai Normal University, Shanghai, China, ASP Conf. Ser. 408, Wang, W., Zhaoqing, Y., Luo, Z., & Chen, Z. (eds.), 248
33. 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
32. **Böhm, A.** & Ziegler B L. 2008, “The (Anti-)Hierarchical Evolution of Disk Galaxies”, proceedings from the conference “Formation and Evolution of Galaxy Disks”, Rome, Oct 1-5, 2007, Funes, J. & Cosini, E. M., (eds.), ASP Conf. Ser. 396, 419

31. Heiderman, A. L., Jogee, S., Bacon, D. J., Balogh, M. L., Barden, M., Barazza, F. D., Bell, E. F., **Böhm, A.**, et al. 2008, “Galaxy Evolution in Dense Environments: Properties of Interacting Galaxies in the A901/02 Supercluster”, proceedings from the conference “Formation and Evolution of Galaxy Disks”, Rome, Oct 1-5, 2007, Funes, J. & Cosini, E. M., (eds.), ASP Conf. Ser. 396, 269
30. Heiderman, A. L., Jogee, S., Bacon, D. J., Balogh, M. L., Barden, M., Barazza, F. D., Bell, E. F., **Böhm, A.**, et al. 2008, “Morphological Transformations of Galaxies in the A901/02 Supercluster from STAGES”, proceedings of the “Frank N. Bash Symposium 2007: New Horizons in Astronomy”, Frebel, A., Maund, J., Shen, J., & Siegel. M., (eds.), ASP Conf. Ser. 393, 211
29. Marinova, I., Jogee, S., Bacon, D., Balogh, M., Barden, M., Barazza, F. D., Bell, E. F., **Böhm, A.**, et al. 2008, “The Evolution of Bars and Disks as a Function of Environment in STAGES”, American Astronomical Society, AAS Meeting #211, #97.12
28. Marinova, I., Jogee, S., Bacon, D., Balogh, M., Barden, M., Barazza, F. D., Bell, E. F., **Böhm, A.**, et al. 2008, “Characterizing Barred Galaxies in the Abell 901/902 Supercluster”, proceedings of the “Frank N. Bash Symposium 2007: New Horizons in Astronomy”, Frebel, A., Maund, J., Shen, J., & Siegel. M., (eds.), ASP Conf. Ser. 393, 231
27. **Böhm, A.**, & Ziegler, B.L. 2007, “The Evolution of Disk Galaxy Scaling Relations Since Redshift $z=1$ ”, Galaxy Evolution Across the Hubble Time, IAU Symposium 235, 14-17 August, 2006 in Prague, Czech Republic. Combes, F. & Palous, J. (eds.), proceedings of the IAU 2, Cambridge University Press, 258
26. **Böhm, A.** & Ziegler B L. 2007, “The Evolution of disk galaxies since $z=1$ ”, proceedings of the conference “Cosmic Frontiers” in Durham, UK, August 2007, ASP Conf. Ser. 379, Metcalfe, N., Shanks, T. (eds.), 278
25. **Böhm, A.**, Wisotzki, L., & the GEMS team 2007, “No color-morphology bimodality of AGN host galaxies”, proceedings of the conference “Cosmic Frontiers” in Durham, UK, August 2007, ASP Conf. Ser. 379, Metcalfe, N., Shanks, T. (eds.), 185
24. Gray, M., Aragón-Salamanca, A., Bacon, D., Balogh, M., Barazza, F. D., Barden, M., Bell, E. F., Beswick, R., **Böhm, A.**, et al. 2007, American Astronomical Society, AAS Meeting #211, #132.20
23. Heiderman, A. L., Jogee, S., Bacon, D. J., Balogh, M. L., Barden, M., Barazza, F. D., Bell, E. F., **Böhm, A.**, et al. 2007, “Transformation Of Galaxies By Interactions And Mergers In The A901/02 Supercluster: Environmental Constraints From The Stages Survey” American Astronomical Society, AAS Meeting #211, #96.13
22. Heymans, C., Gray, M. E., Peng, C. Y., . . . , **Böhm, A.**, et al. 2007, “The Dark Matter Environment of the Abell 901/902 Supercluster: A High Resolution Weak Lensing Mass Map of the HST STAGES Survey”, American Astronomical Society, AAS Meeting #211, #67.05
21. Kronberger, T., Kapferer, W., Schindler, S., **Böhm, A.**, Kutdemir, E., & Ziegler, B. L. 2007, “Internal Kinematics of Modelled Isolated and Interacting Disc Galaxies”, Galaxy Evolution Across the Hubble Time, IAU Symposium 235, 14-17 August, 2006 in Prague, Czech Republic.

- Combes, F. & Palous, J. (eds.), proceedings of the IAU 2, Cambridge University Press, 216
20. Wolf, C., Gray, M. E., Bell, E. F., . . . , **Böhm, A.**, et al. 2007, “Optically Passive Infall Spirals In Stages: Star Formation Only Semi-quenched”, American Astronomical Society, AAS Meeting #211, #67.01
19. Ziegler, B. L., Kutdemir, E., **Böhm, A.**, Jäger, K., Verdugo, M., Peletier, R. F., Kronberger, T., Kapferer, W., & Schindler, S. 2007, “Distant Galaxy Transformation Probed by VLT and HST” Galaxy Evolution Across the Hubble Time, IAU Symposium 235, 14-17 August, 2006 in Prague, Czech Republic. Combes, F. & Palous, J. (eds.), proceedings of the IAU 2, Cambridge University Press, 391
18. Ziegler, B. L., **Böhm, A.**, Fritz, A., 2006, “Downsizing Scaling Relations”, proceedings of the XXIst IAP Colloquium “Mass Profiles and Shapes of Cosmological Structures”, Paris 4-9 July 2005, France, G. Mamon, F. Combes, C. Deffayet, B. Fort (eds.), EAS Publ. Ser. Vol. 20, 303
17. **Böhm, A.**, & Ziegler, B. L. 2005, “Disk galaxy evolution up to redshift $z = 1$ ”, proceedings of the conference ”Baryons in Dark Matter Halos”, Novigrad, Croatia, 5-9 October 2004, Dettmar, R.-J., Klein, U., Salucci, P. (eds.), Published by SISSA, Proceedings of Science, http://pos.sissa.it/archive/conferences/014/005/BDMH2004_005.pdf
16. Kronberger, T., Kapferer, W., Schindler, S., van Kampen, E., Kimeswenger, S., Mair, M., Domainko, W., **Böhm, A.**, & Ziegler, B. L. 2005, “Star formation rates and kinematics of modelled interactions galaxies”, ANS, 326, 498
15. Appenzeller, I., Mehlert, D., Noll, S., Bender, R., **Böhm, A.**, Gabasch, A., Heidt, J., Hopp, U., Jäger, K., Seitz, S., & The FDF Team 2004, “High Redshift Galaxies in the FORS Deep Field”, in Studies of Galaxies in the Young Universe with New Generation Telescope, proceedings of Japan-German Seminar, held in Sendai, Japan, July 24-28, 2001, Arimoto, N., Duschl, W. (eds.), 8
14. Appenzeller, I., Bender, R., **Böhm, A.**, Frank, S., Fricke, K. J., Gabasch, A., Heidt, J., Hopp, U., Jäger, K., Mehlert, D., Noll, S., Saglia, R. P., Seitz, S., Tapken, C., & Ziegler, B. L. 2004, “Exploring cosmic evolution with the FORS Deep Field”, The Messenger, 166, 18
13. Fritz, A., Ziegler, B. L., & **Böhm, A.** 2004, “Kinematics and Line Diagnostics of Field Ellipticals at $z = 0.4$ ”, ANS, 325, 111
12. Jäger, K., **Böhm, A.**, Ziegler, B. L., Heidt, J., & Möllenhoff, C. 2004, “Internal kinematics of spiral galaxies in distant rich galaxy clusters”, proceedings of the IAU Colloquium 195 “Outskirts of Galaxy Clusters: Intense Life in the Suburbs”, Torino, Italy, March 12-16 2004, Diaferio, A., et al. (eds.), 372
11. Jäger, K., **Böhm, A.**, & Ziegler, B. L. 2004, “Internal Kinematics of Disk Galaxies in Rich Distant Galaxy Clusters”, ANS, 325, 110
10. Ziegler, B. L., **Böhm, A.**, Jäger, K., Fritz, A., & Heidt, J. 2004, “Internal Kinematics of Spiral Galaxies in Distant Clusters”, in Clusters of Galaxies: Probes of Cosmological Structure

and Galaxy Evolution, Carnegie Observatories Astrophysics Series, Mulchaey, J. S., Dressler, A., Oemler, A. (eds.), 54

9. Appenzeller, I., Bender, R., **Böhm, A.**, Gabasch, A., Heidt, J., Jäger, K., Mehlert, D., Noll, S., Seitz, S., & Ziegler, B. L. 2003, “The FORS Deep Field: a Deep 3-D Map”, IAUS, 216, 56

8. **Böhm, A.**, Ziegler, B. L., & Fricke, K. J. 2003, “The Fundamental Plane of Spirals at Intermediate Redshift”, ANS, 324, 38

7. Heidt, J., **Böhm, A.**, Jäger, K., Ziegler, B. L., & Möllenhoff, C. 2003, “The Kinematics of Spirals in Distant Galaxy Clusters”, IAUJD, 10, 50

6. Bender, R., Appenzeller, I., **Böhm, A.**, Drory, N., Fricke, K. J., Gabasch, A., Heidt, J., Hopp, U., Jäger, K., Kümmel, M., Mehlert, D., Möllenhoff, C., Moorwood, A., Nicklas, H., Noll, S., Saglia, R. P., Seifert, W., Seitz, S., Sutorius, E., Szeifert, T., Wagner, S. J., & Ziegler, B. L. 2001, “The FORS Deep Field: Photometric Data and Photometric Redshifts”, proceedings of the ESO/ECF/STScI Workshop held at Garching, Germany, 9-12 October 2000, Cristiani, S., Renzini, A., Williams, R. E. (eds.), Springer, 96

5. **Böhm, A.**, Ziegler, B. L., & Fricke, K. J. 2001, “The Tully–Fisher Relation of Field Spirals at Intermediate Redshift”, AG Abstract Series, 18, 57

4. Fritz, A., **Böhm, A.**, & Ziegler, B. L. 2001, “Evolution of Elliptical Galaxies in the FORS Deep Field”, AG Abstract Series, 18, 62

3. Appenzeller, I., Bender, R., **Böhm, A.**, et al. 2000, Drory, N., Fricke, K. J., Hafner, R., Heidt, J., Hopp, U., Jäger, K., Kümmel, M., Mehlert, D., Möllenhoff, C., Moorwood, A., Nicklas, H., Noll, S., Saglia, R. P., Seifert, W., Seitz, S., Stahl, O., Sutorius, E., Szeifert, T., Wagner, S. J., & Ziegler, B. L. 2000, “The FORS Deep Field”, The Messenger, 100, 44

2. **Böhm, A.**, Jäger, K., & Fricke, K. J. 1999, “A large Survey of Quasar Environments”, AG Abstract Series, 15, 45

1. Jäger, K., Fricke, K. J., **Böhm, A.**, & Heidt, J. 1998, “On the environments of radio-quiet QSOs”, AG Abstract Series, 14, 63