

# Galaxien und Kosmologie / Galaxies / Cosmology

## Refereed Papers

Abazajian, K., J. K. Adelman-McCarthy, M. A. Agüeros, S. S. Allam, K. S. J. Anderson, S. F. Anderson, J. Annis, N. A. Bahcall, I. K. Baldry, S. Bastian, A. Berlind, M. Bernardi, M. R. Blanton, J. J. Bochanski, Jr., W. N. Boroski, H. J. Brewington, J. W. Briggs, J. Brinkmann, R. J. Brunner, T. Budavári, L. N. Carey, F. J. Castander, A. J. Connolly, K. R. Covey, I. Csabai, J. J. Dalcanton, M. Doi, F. Dong, D. J. Eisenstein, M. L. Evans, X. Fan, D. P. Finkbeiner, S. D. Friedman, J. A. Frieman, M. Fukugita, B. Gillespie, K. Glazebrook, J. Gray, E. K. Grebel, J. E. Gunn, V. K. Gurbani, P. B. Hall, M. Hamabe, D. Harbeck, F. H. Harris, H. C. Harris, M. Harvanek, S. L. Hawley, J. Hayes, T. M. Heckman, J. S. Hendry, G. S. Hennessy, R. B. Hindsley, C. J. Hogan, D. W. Hogg, D. J. Holmgren, J. A. Holtzman, S.-i. Ichikawa, T. Ichikawa, Z. Ivezic, S. Jester, D. E. Johnston, A. M. Jorgensen, M. Juric, S. M. Kent, S. J. Kleinman, G. R. Knapp, A. Y. Kniazev, R. G. Kron, J. Krzesinski, D. Q. Lamb, H. Lampeitl, B. C. Lee, H. Lin, D. C. Long, J. Loveday, R. H. Lupton, E. Mannery, B. Margon, D. Martínez-Delgado, T. Matsubara, P. M. McGehee, T. A. McKay, A. Meiksin, B. Ménard, J. A. Munn, T. Nash, E. H. Neilsen, Jr., H. J. Newberg, P. R. Newman, R. C. Nichol, T. Nicinski, M. Nieto-Santisteban, A. Nitta, S. Okamura, W. O'Mullane, R. Owen, N. Padmanabhan, G. Pauls, J. Peoples, J. R. Pier, A. C. Pope, D. Pourbaix, T. R. Quinn, M. J. Raddick, G. T. Richards, M. W. Richmond, H.-W. Rix, C. M. Rockosi, D. J. Schlegel, D. P. Schneider, J. Schroeder, R. Scranton, M. Sekiguchi, E. Sheldon, K. Shimasaku, N. M. Silvestri, J. A. Smith, V. Smolcic, S. A. Snedden, A. Stebbins, C. Stoughton, M. A. Strauss, M. SubbaRao, A. S. Szalay, I. Szapudi, P. Szkody, G. P. Szokoly, M. Tegmark, L. Teodoro, A. R. Thakar, C. Tremonti, D. L. Tucker, A. Uomoto, D. E. Vanden Berk, J. Vandenberg, M. S. Vogeley, W. Voges, N. P. Vogt, L. M. Walkowicz, S.-i. Wang, D. H. Weinberg, A. A. West, S. D. M. White, B. C. Wilhite, Y. Xu, B. Yanny, N. Yasuda, C.-W. Yip, D. R. Yocum, D. G. York, I. Zehavi, S. Zibetti and D. B. Zucker: The Third Data Release of the Sloan Digital Sky Survey. *The Astronomical Journal* **129**, 1755-1759 (2005)

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## Veröffentlichungen / *Publications* 2005

### Invited Papers and Reviews:

*Bailer-Jones, C. A. L.*: Astronomical object classification and parameter estimation with the Gaia Galactic Survey Satellite. In: Classification – the Ubiquitous Challenge, (Eds.) C. Weihs, W. Gaul. Studies in classification, data analysis and knowledge organization Springer, 325–329 (2005)

*Bailer-Jones, C. A. L.*: Design of astronomical filter systems for stellar classification using evolutionary algorithms. In: Classification – the Ubiquitous Challenge, (Eds.) C. Weihs, W. Gaul. Studies in classification, data analysis and knowledge organization Springer, 330–337 (2005)

*Hayano, Y., W. Gaessler, N. Takato, H. Takami, M. Iye, Y. Minowa, P. Wizinowsich and D. Summers*: Observational impact of scattered light from the laser beam of a laser guide star adaptive optics. In: Annual Report of the National Astronomical Observatory of Japan, (Eds.) K. Tanikawa, M. Imanishi, A. Ueda, M. Oe, T. Sekii, M. Sôma, M. Miyoshi, Y. Yamashita. **6**, National Astronomical Observatory of Japan, 29 (2005)

*Hempel, A., T. M. Herbst and D. J. Thompson*: Surface density of extremely red objects with  $R - J \geq q$ ; 5. Astronomy and Astrophysics 443, 831-839 (2005)

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# Galaxien und Kosmologie / Galaxies / Cosmology

## Contributed Papers

*Bailer-Jones, C. A. L.:* Microarcsecond astronomy with Gaia: The solar system, the galaxy and beyond. In: *Transits of Venus: New views of the solar system and galaxy*, (Ed.) D. W. Kurtz. **196**, Cambridge Univ. Pr., 429-443 (2005)

*Boone, F., F. Combes, S. García-Burillo, A. J. Baker, L. Hunt, S. Léon, E. Schinnerer, R. Neri, L. J. Tacconi, P. Englmaier and A. Eckart:* The molecular gas in the nuclear region of NGC 4569. In: *The evolution of starbursts*, (Eds.) E. Hüttemeister, E. Manthey, D. Bomans, K. Weis. AIP Conference Proceedings **783**, AIP, 161-164 (2005)

*Castro-Tirado, A. J., J. Gorosabel, A. de Ugarte Postigo, S. Guziy, M. Jelinek, M. Karrer, H.-J. Roeser, N. Elias-Rosa, O. Bogdanov and A. Aguirre:* GRB 050724: optical and near-IR observations. GRB Circular Network **3673**, 1 (2005)

*Cavadore, C., E. W. Elst, C.-I. Lagerkvist, A. Boattini, H. Boehnhardt, R. Behrend, F. Hormuth, A. Fitzsimmons, R. Gauderon, B. Pernier, B.-O. Demory, D. Deluz, P. Royer, C. Vuissoz, S. Berthet, M. Cherix, H.-J. Roeser, H. Hippelein, S. Falter, C. Wolf, E. Bell, G. Bourban, S. Fornasier, E. Dotto, M. Marmier and H. Scholl:* Minor Planet Observations [809 European Southern Observatory, La Silla]. *Minor Planet Circulars* **5435**, (2005)

*Chesneau, O., M. Min, T. Herbst, L. B. F. M. Waters, C. Leinert and D. J. Hillier:* The sub-arcsecond dusty environment of Eta Carinae. In: *The Fate of the Most Massive Stars*, (Eds.) R. Humphreys, K. Stanek. ASP Conf. Ser. **332**, ASP, 165 (2005)

*Cox, P., A. Beelen, F. Bertoldi, A. Omont, C. L. Carilli and F. Walter:* Gas and dust in high redshift quasars. In: *The Dusty and Molecular Universe: A Prelude to HERSCHEL and ALMA*, (Ed.) A. Wilson. ESA SP-**577**, ESA, 115-120 (2005)

*de Ugarte Postigo, A., J. Gorosabel, A. J. Castro-Tirado, M. Jelinek, S. Guziy, H.-J. Roeser, A. Aguirre, S. Pedraz and O. Bogdanov:* GRB 050724: j-band observations. GRB Circular Network **3680**, 1 (2005)

*García-Burillo, S., F. Combes, E. Schinnerer, F. Boone and L. K. Hunt:* How to feed AGN: The NUGA view. In: *The Evolution of Starbursts*, (Eds.) E. Hüttemeister, E. Manthey, D. Bomans, K. Weis. **783**, AIP, 196-202 (2005)

*Goto, M., W. Gässler, Y. Hayano, M. Iye, Y. Kamata, T. Kanzawa, N. Kobayashi, Y. Minowa, D. J. Saint-Jacques, H. Takami, N. Takato and H. Terada:* Spatially resolved spectroscopy of proto-planetary nebulae. In: *Science with Adaptive Optics*, (Eds.) W. Brandner, M. E. Kasper. ESO Astrophysics Symposia Springer, 264-269 (2005)

*Hammer, F., H. Flores, X. Zheng and Y. Liang:* A recent rebuilding of most spirals? In: *Starbursts: From 30 Doradus to Lyman Break Galaxies*, (Eds.) R. de Grijs, R. M. González Delgado. *Astrophysics and Space Science Library* **329**, Springer, 273-278 (2005)

*Häring, N., H. W. Rix, M. Hartung, A. Prieto, R. Lenzen and K. Meisenheimer:* The nucleus of Centaurus A with NACO. In: *Science with Adaptive Optics*, (Eds.) W. Brandner, M. E. Kasper. ESO Astrophysics Symposia Springer, 311-314 (2005)

*Heymans, C., M. L. Brown, M. Barden, J. Caldwell, B. Häußler, K. Jahnke, H.-W. Rix, S. Beckwith, E. F. Bell, A. Borch, S. Jogee, D. H. McIntosh, K. Meisenheimer, C. Peng, S. Sánchez, R. Somerville, A. N. Taylor, L. Wisotzki and C. Wolf:* Weak lensing studies from space with GEMS. *New Astronomy Review* **49**, 392-395 (2005)

*Heymans, C., M. L. Brown, M. Barden, J. A. R. Caldwell, K. Jahnke, H.-W. Rix, A. N. Taylor, S. Beckwith, E. Bell, A. Borch, B. Häußler, S. Jogee, D. H. McIntosh, K. Meisenheimer, C. Peng, S. F. Sánchez, R. Somerville, L. Wisotzki and C. Wolf:* Weak Lensing Results from GEMS. In: *Impact of Gravitational Lensing on Cosmology*, (Eds.) Y. Mellier, G. Meylan. *Proceedings of IAU Symposium* **225**, Cambridge Univ. Pr., 43-48 (2005)

*Kleinheinrich, M., H.-W. Rix, P. Schneider, T. Erben, K. Meisenheimer, C. Wolf and M. Schirmer:* Galaxy-galaxy lensing studies from COMBO-17. In: *Impact of Gravitational Lensing on Cosmology*, (Eds.) Y. Mellier, G. Meylan. *Proceedings of IAU Symposium* **225**, Cambridge Univ. Pr., 249-254 (2005)

*Krause, M., A. Löhr, C. Fendt and N. Neininger:* The magnetic field along the jet of NGC 4258 and its interaction with molecular gas. In: *The Magnetized Plasma in Galaxy Evolution*, (Eds.) K. Chyzy, K. Otmianowska-Mazur, M. Soida, R.-J. Dettmar. Jagiellonian University, 217-222 (2005)

*Le Floc'h, E., C. Papovich, H. Dole, E. Egami, P. Pérez-González, G. Rieke, M. Rieke and E. Bell:* Evolution of the IR energy density and SFH up to  $z = 1$ : First results from MIPS. In: *Starbursts: From 30 Doradus to Lyman Break Galaxies*, (Eds.) R. de Grijs, R. M. González Delgado. *Astrophysics and Space Science Library* **329**, Springer, 279-282 (2005)

*Ott, J., A. Weiß, C. Henkel and F. Walter:* The Temperature Distribution of Dense Molecular Gas in

Starburst Cores. In: The Evolution of Starbursts, (Eds.) E. Hüttemeister, E. Manthey, D. Bomans, K. Weis. AIP Conference Proceedings **783**, American Institute of Physics, 141-147 (2005)

*Pyo, T.-S., M. Hayashi, N. Kobayashi, A. T. Tokunaga, H. Terada, M. Goto, H. Takami, N. Takato, W. Gässler, S. Oya, Y. Hayano, Y. Kamata, Y. Minowa, T. Usada, M. Iye and Y. Yamashita:* The structure of the young stellar outflows revealed by high angular resolution [Fe II]  $\lambda$  1.644  $\mu$ m ... In: Science with Adaptive Optics, (Eds.) W. Brandner, M. E. Kasper. Springer, 242-247 (2005)

*Ragazzoni, R., C. Arcidiacono, G. Bono, M. Busso, E. Diolaiti, J. Farinato, A. Moore, A. Riccardi, P. Salinari, R. Soci, G. Tosti and E. Vernet:* An adaptive 2 m class telescope for a microlensing search from Antarctica. In: Dome C Astronomy and Astrophysics Meeting, (Eds.) M. Giard, F. Casoli, F. Paletou. EAS Publications Series **14**, EDP Sciences, 161-167 (2005)

*Schartmann, M., K. Meisenheimer, M. Camenzind, S. Wolf and T. Henning:* Towards a physical model of dust tori in Active Galactic Nuclei. In: The Spectral Energy Distributions of Gas-Rich Galaxies: Confronting Models with Data, (Eds.) C. C. Popescu, R. J. Tuffs. AIP Conference Proceedings **761**, AIP, 277-281 (2005)

*Schinnerer, E., T. Böker, D. S. Meier, U. Lisenfeld and E. Emsellem:* Fueling nuclear star clusters: Gas dynamics in the central 100pc. In: The Evolution of Starbursts, (Eds.) E. Hüttemeister, E. Manthey, D. Bomans, K. Weis. AIP Conference Proceedings **783**, AIP, 209-215 (2005)

*Schinnerer, E., N. Z. Scoville and C. L. Carilli:* The COSMOS survey from the radio perspective. In: The Dusty and Molecular Universe: A Prelude to HERSCHEL and ALMA, (Ed.) A. Wilson. ESA SP- **577**, ESA, 107-110 (2005)

*Schinnerer, E., A. Weiss, S. Aalto, N. Z. Scoville, M. P. Rupen, R. C. Kennicutt and R. Beck:* Star Clusters in M51: Connection between molecular gas stars and dust. In: Starbursts: From 30 Doradus to Lyman Break Galaxies, (Eds.) R. de Grijs, R. M. González Delgado. Astrophysics and Space Science Library **329**, Springer, 251-254 (2005)

*Staguhn, J. G., E. Schinnerer, A. Eckart and J. Scharwächter:* Sub-arcsecond multi-transition molecular line observations of the nearby QSO I ZW 1. In: The Dusty and Molecular Universe: A Prelude to HERSCHEL and ALMA, (Ed.) A. Wilson. ESA SP- **577**, ESA, 331-332 (2005)

*Walter, F.:* Resolved molecular gas emission in J1148+5251: Fueling a starburst at  $z = 6.4$ . In: The Evolution of Starbursts, (Eds.) E. Hüttemeister, E. Manthey, D. Bomans, K. Weis. AIP Conference Proceedings **783**, AIP, 394-400 (2005)

*Walter, F.:* Resolved molecular gas emission in a QSO host galaxy at  $z = 6.4$ . In: Starbursts: From 30 Doradus to Lyman Break Galaxies, (Eds.) R. de Grijs, R. M. González Delgado. Astrophysics and Space Science Library **329**, Springer, 327-330 (2005)

*Walter, F.:* Star formation triggered by interactions. In: The Dusty and Molecular Universe: A Prelude to HERSCHEL and ALMA, (Ed.) A. Wilson. ESA SP- **577**, ESA, 99-104 (2005)

*Walter, F., E. Brinks, W. J. G. de Blok, M. D. Thornley and R. C. Kennicutt:* First Results from THINGS: The HI Nearby Galaxy Survey. In: Extra-Planar Gas, (Ed.) R. Braun. ASP Conf. Ser. **331**, ASP, 269-274 (2005)

*Weiß, A., D. Downes, C. Henkel and F. Walter:* CO and CI at redshift 2.5. In: The Evolution of Starbursts, (Eds.) E. Hüttemeister, E. Manthey, D. Bomans, K. Weis. AIP Conference Proceedings **783**, AIP, 401-407 (2005)

# Galaxien und Kosmologie / *Galaxies / Cosmology*

## Popular Papers

*Davies, R., S. Hippler and R. Ragazzoni*: Künstliche Sterne und grosse Gesichtsfelder. Adaptive Optik in der Astronomie Teil II. Sterne und Weltraum **44,4**, 34–45 (2005)

*Hoeppe, G., M. Barden, T. Bürke, B. Häussler and H.-W. Rix*: HUBBLE in der Unterwelt. Die Ausstellung »Das halbe Universum« in München. Sterne und Weltraum **44,7**, 50–55 (2005)

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