

Galaxien und Kosmologie / Galaxies / Cosmology

Refereed Papers

Abazajian, K., J. K. Adelman-McCarthy, M. A. Agüeros, S. S. Allam, K. Anderson, S. J. , 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, J. W. Briggs, J. Brinkmann, R. J. Brunner, T. Budavári, L. N. Carey, S. Carliles, F. J. Castander, A. J. Connolly, I. Csabai, M. Doi, F. Dong, D. J. Eisenstein, M. L. Evans, X. Fan, D. P. Finkbeiner, S. D. Friedman, J. A. Frieman, M. Fukugita, R. R. Gal, B. Gillespie, K. Glazebrook, J. Gray, E. K. Grebel, J. E. Gunn, V. K. Gurbani, P. B. Hall, M. Hamabe, F. H. Harris, H. C. Harris, M. Harvanek, T. M. Heckman, J. S. Hendry, G. S. Hennessy, R. B. Hindsley, C. J. Hogan, D. W. Hogg, D. J. Holmgren, S.-i. Ichikawa, T. Ichikawa, Z. Ivezić, S. Jester, D. E. Johnston, A. M. Jorgensen, S. M. Kent, S. J. Kleinman, G. R. Knapp, A. Y. Kniazev, R. G. Kron, J. Krzesinski, P. Z. Kunszt, N. Kuropatkin, D. Q. Lamb, H. Lampeitl, B. C. Lee, R. F. Leger, N. Li, H. Lin, Y.-S. Loh, D. C. Long, J. Loveday, R. H. Lupton, T. Malik, B. Margon, T. Matsubara, P. M. McGehee, T. A. McKay, A. Meiksin, J. A. Munn, R. Nakajima, T. Nash, E. H. Neilsen, Jr. , H. J. Newberg, P. R. Newman, R. C. Nichol, T. Nicinski, M. Nieto-Santesteban, A. Nitta, S. Okamura, W. O'Mullane, J. P. Ostriker, R. Owen, N. Padmanabhan, J. Peoples, J. R. Pier, A. C. Pope, T. R. Quinn, G. T. Richards, M. W. Richmond, H.-W. Rix, C. M. Rockosi, D. J. Schlegel, D. P. Schneider, R. Scranton, M. Sekiguchi, U. Seljak, G. Sergey, B. Sesar, E. Sheldon, K. Shimasaku, W. A. Siegmund, 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 second data release of the Sloan Digital Sky Survey. *The Astronomical Journal* **128**, 502-512 (2004)

Bailer-Jones, C. A. L.: Evolutionary design of photometric systems and its application to Gaia. *Astronomy and Astrophysics* **419**, 385-403 (2004)

Bell, E. F., D. H. McIntosh, M. Barden, C. Wolf, J. A. R. Caldwell, H.-W. Rix, S. V. W. Beckwith, A. Borch, B. Häussler, K. Jahnke, S. Jogee, K. Meisenheimer, C. Peng, S. F. Sanchez, R. S. Somerville and L. Wisotzki: GEMS imaging of red-sequence galaxies at $z \sim 0.7$: Dusty or old? *The Astrophysical Journal* **600**, L11-L14 (2004)

Bell, E. F., C. Wolf, K. Meisenheimer, H.-W. Rix, A. Borch, S. Dye, M. Kleinheinrich, L. Wisotzki and D. H. McIntosh: Nearly 5000 distant early-type galaxies in COMBO-17: A red sequence and its evolution since $z \sim 1$. *The Astrophysical Journal* **608**, 752-767 (2004)

Bhaskara Rao, S. V. N., A. P. Mishra, R. D'Souza and T. K. Balasubramanian: Rovibrational matrix elements of polarizability of HD, HT and DT molecules [rapid communication]. *Journal of Quantitative Spectroscopy and Radiative Transfer* **87**, 203-210 (2004)

Boehnhardt, H., S. Bagnulo, K. Muinonen, M. A. Barucci, L. Kolokolova, E. Dotto and G. P. Tozzi: Surface characterization of 28978 Ixion (2001 KX₇₆). *Astronomy and Astrophysics* **415**, L21-L25 (2004)

Böker, T., M. Sarzi, D. E. McLaughlin, R. P. van der Marel, H.-W. Rix, L. C. Ho and J. C. Shields: A Hubble Space Telescope census of nuclear star clusters in late-type spiral galaxies. II. Cluster sizes and structural parameter correlations. *The Astronomical Journal* **127**, 105-118 (2004)

Burns, C. R., C. C. Dyer, P. P. Kronberg and H.-J. Röser: Theoretical modeling of weakly lensed polarized radio sources. *The Astrophysical Journal* **613**, 672-681 (2004)

Coleman, M., G. S. Da Costa, J. Bland-Hawthorn, D. Martínez-Delgado, K. C. Freeman and D. Malin: Shell structure in the fornax dwarf spheroidal galaxy. *The Astronomical Journal* **127**, 832-839 (2004)

Contini, M., S. M. Viegas and M. A. Prieto: The infrared continuum of active galactic nuclei. *Monthly Notices of the Royal Astronomical Society* **348**, 1065-1077 (2004)

de Bergh, C., H. Boehnhardt, M. A. Barucci, M. Lazzarin, S. Fornasier, J. Romon-Martin, G. P. Tozzi, A. Doressoundiram and E. Dotto: Aqueous altered silicates at the surface of two Plutinos? *Astronomy and Astrophysics* **416**, 791-798 (2004)

Dehnen, W., M. Odenkirchen, E. K. Grebel and H.-W. Rix: Modeling the disruption of the globular cluster Palomar 5 by galactic tides. *The Astronomical Journal* **127**, 2753-2770 (2004)

Delsanti, A., O. Hainaut, E. Jourdeuil, K. J. Meech, H. Boehnhardt and L. Barrera: Simultaneous visible-near IR photometric study of Kuiper Belt Object surfaces with the ESO/Very Large Telescopes. *Astronomy and Astrophysics* **417**, 1145-1158 (2004)

Dib, S. and A. Burkert: The origin of the H I holes in the interstellar medium of Holmberg II. *Astrophysics and Space Science* **292**, 135-140 (2004)

Dib, S., A. Burkert and A. Hujeirat: On the thermal instability in numerical models of the interstellar medium. *Astrophysics and Space Science* **289**, 465-468 (2004)

Dirsch, B., T. Richtler, D. Geisler, K. Gebhardt, M. Hilker, M. V. Alonso, J. C. Forte, E. K. Grebel, L. Infante, S. Larsen, D. Minniti and M. Rejkuba: The globular cluster system of NGC 1399. III. VLT spectroscopy and database. *The Astronomical Journal* **127**, 2114-2132 (2004)

Doherty, M., A. Bunker, R. Sharp, G. Dalton, I. Parry, I. Lewis, E. MacDonald, C. Wolf and H. Hippelein: Multi-object near-infrared H α spectroscopy of $z \sim 1$ star-forming galaxies in the Hubble Deep Field North. *Monthly Notices of the Royal Astronomical Society* **354**, L7-L12 (2004)

Finkbeiner, D. P., N. Padmanabhan, D. J. Schlegel, M. A. Carr, J. E. Gunn, C. M. Rockosi, M. Sekiguchi, R. H. Lupton, G. R. Knapp, Z. Ivezić, M. R. Blanton, D. W. Hogg, J. K. Adelman-McCarthy, J. Annis, J. Hayes, E. Kinney, D. C. Long, U. Seljak, M. A. Strauss, B. Yanny, M. A. Agüeros, S. S. Allam, S. F. Anderson, N. A. Bahcall, I. K. Baldry et al.: Sloan Digital Sky Survey Imaging of Low Galactic Latitude Fields: Technical Summary and Data Release. *The Astronomical Journal* **128**, 2577-2592 (2004)

Förster Schreiber, N. M., P. G. van Dokkum, M. Franx, I. Labbé, G. Rudnick, E. Daddi, G. D. Illingworth, M. Kriek, A. F. M. Moorwood, H.-W. Rix, H. Röttgering, I. Trujillo, P. van der Werf, L. van Starckenburg and S. Wuyts: A substantial population of red galaxies at $z > 2$: Modeling of the spectral energy distributions of an extended sample. *The Astrophysical Journal* **616**, 40-62 (2004)

Fornasier, S., A. Doressoundiram, G. P. Tozzi, M. A. Barucci, H. Boehnhardt, C. de Bergh, A. Delsanti, J. Davies and E. Dotto: ESO Large Program on physical studies of Trans-Neptunian objects and Centaurs: Final results of the visible spectrophotometric observations. *Astronomy and Astrophysics* **421**, 353-363 (2004)

Fornasier, S., E. Dotto, F. Marzari, M. A. Barucci, H. Boehnhardt, O. Hainaut and C. de Bergh: Visible spectroscopic and photometric survey of L5 Trojans: investigation of dynamical families. *Icarus* **172**, 221-232 (2004)

Gallart, C., A. Aparicio, W. L. Freedman, B. F. Madore, D. Martínez-Delgado and P. B. Stetson: The variable-star population in Phoenix: Coexistence of anomalous and short-period classical Cepheids and detection of RR Lyrae variables. *The Astronomical Journal* **127**, 1486-1501 (2004)

García-Berro, E., S. Torres, J. Isern and A. Burkert: Monte Carlo simulations of the halo white dwarf population. *Astronomy and Astrophysics* **418**, 53-65 (2004)

Girardi, L., E. K. Grebel, M. Odenkirchen and C. Chiosi: Theoretical isochrones in several photometric systems. II. The Sloan Digital Sky Survey ugriz system. *Astronomy and Astrophysics* **422**, 205-215 (2004)

Gray, M. E., C. Wolf, K. Meisenheimer, A. Taylor, S. Dye, A. Borch and M. Kleinheinrich: Linking star formation and environment in the A901/902 supercluster. *Monthly Notices of the*

Royal Astronomical Society **347**, L73-L77 (2004)

Gutiérrez, C. M., I. Trujillo, J. A. L. Aguerra, A. W. Graham and N. Caon: Quantitative morphology of galaxies in the core of the Coma cluster. *The Astrophysical Journal* **602**, 664-677 (2004)

Haas, M., S. A. H. Müller, F. Bertoldi, R. Chini, S. Egner, W. Freudling, U. Klaas, O. Krause, D. Lemke, K. Meisenheimer, R. Siebenmorgen and I. van Breemel: The ISOPHOT-MAMBO survey of 3CR radio sources: Further evidence for the unified schemes. *Astronomy and Astrophysics* **424**, 531-543 (2004)

Häring, N. and H.-W. Rix: On the black hole mass-bulge mass relation. *The Astrophysical Journal* **604**, L89-L92 (2004)

Hartung, M., T. M. Herbst, L. M. Close, R. Lenzen, W. Brandner, O. Marco and C. Lidman: A new VLT surface map of Titan at 1.575 microns. *Astronomy and Astrophysics* **421**, L17-L20 (2004)

Heymans, C., M. Brown, A. Heavens, K. Meisenheimer, A. Taylor and C. Wolf: Weak lensing with COMBO-17: Estimation and removal of intrinsic alignments. *Monthly Notices of the Royal Astronomical Society* **347**, 895-908 (2004)

Hogg, D. W., M. R. Blanton, J. Brinchmann, D. J. Eisenstein, D. J. Schlegel, J. E. Gunn, T. A. McKay, H.-W. Rix, N. A. Bahcall, J. Brinkmann and A. Meiksin: The dependence on environment of the color-magnitude relation of galaxies. *The Astrophysical Journal* **601**, L29-L32 (2004)

Huang, J.-S., P. Barmby, G. G. Fazio, S. P. Willner, G. Wilson, D. Rigopoulou, A. Alonso-Herrero, H. Dole, E. Egami, E. Le Floch, C. Papovich, P. G. Pérez-González, J. Rigby, C. W. Engelbracht, K. Gordon, D. Hines, M. Rieke, G. H. Rieke, K. Meisenheimer and S. Miyazaki: Infrared Array Camera (IRAC) imaging of the Lockman Hole. *Astrophysical Journal Supplement Series* **154**, 44-47 (2004)

Iye, M., H. Karoji, H. Ando, N. Kaifu, K. Kodaira, K. Aoki, W. Aoki, Y. Chikada, Y. Doi, N. Ebizuka, B. Elms, G. Fujihara, H. Furusawa, T. Fuse, W. Gaessler, S. Harasawa, Y. Hayano, M. Hayashi, S. Hayashi, S. Ichikawa, M. Imanishi, C. Ishida, Y. Kamata, T. Kanzawa, N. Kashikawa et al.: Current performance and on-going improvements of the 8.2 m Subaru Telescope. *Publications of the Astronomical Society of Japan* **56**, 381-397 (2004)

Jaffe, W., K. Meisenheimer, H. J. A. Röttgering, C. Leinert, A. Richichi, O. Chesneau, D. Fraix-Burnet, A. Glazeborg-Kluttig, G.-L. Granato, U. Graser, B. Heijligers, R. Köhler, F. Malbet, G. K. Miley, F. Paresce, J.-W. Pel, G. Perrin, F. Przygodda, M. Schoeller, H. Sol, L. B. F. M. Waters, G. Weigelt, J. Woillez and P. T. de Zeeuw: The central dusty torus in the active nucleus of NGC 1068. *Nature* **429**, 47-49 (2004)

Jahnke, K., S. F. Sánchez, L. Wisotzki, M. Barden, S. Beckwith, E. Bell, A. Borch, J. Caldwell, B. Häußler, S. Jogee, D. H. McIntosh, K. Meisenheimer, C. Y. Peng, H.-W. Rix, R. S. Somerville and C. Wolf: Ultraviolet light from young stars in GEMS quasar host galaxies at $1.8 < z < 2.75$. *The Astrophysical Journal* **614**, 568-585 (2004)

Jogee, S., F. D. Barazza, H.-W. Rix, I. Shlosman, M. Barden, C. Wolf, J. Davies, I. Heyer, S. V. W. Beckwith, E. F. Bell, A. Borch, J. A. R. Caldwell, C. J. Conselice, T. Dahlen, B. Häußler, C. Heymans, K. Jahnke, J. H. Knapen, S. Laine, G. M. Lubell, B. Mobasher, D. H. McIntosh, K. Meisenheimer, C. Y. Peng, S. Ravindranath, S. F. Sanchez, R. S. Somerville and L. Wisotzki: Bar evolution over the last 8 billion years: A constant fraction of strong bars in the GEMS survey. *The Astrophysical Journal* **615**, L105-L108 (2004)

Kniazev, A. Y., E. K. Grebel, S. A. Pustilnik, A. G. Pramskij, T. F. Kniazeva, F. Prada and D. Harbeck: Low surface brightness galaxies in the Sloan Digital Sky Survey. I. Search method and test sample. *The Astronomical Journal* **127**, 704-727 (2004)

Kniazev, A. Y., S. A. Pustilnik, E. K. Grebel, H. Lee and A. G. Pramskij: Strong emission line H II galaxies in the Sloan Digital Sky Survey. I. Catalog of DR1 objects with oxygen abundances from Te measurements. *Astrophysical Journal Supplement Series* **153**, 429-445 (2004)

Koch, A., M. Odenkirchen, E. K. Grebel and J. A. R. Caldwell: A calibration map for Wide Field

Imager photometry. *Astronomische Nachrichten* **325**, 299-306 (2004)

Koch, A., E. K. Grebel, M. Odenkirchen, D. Martínez-Delgado and J. A. R. Caldwell: Mass Segregation in the Globular Cluster Palomar 5 and its Tidal Tails. *The Astronomical Journal* **128**, 2274-2287 (2004)

Lee, B. C., S. S. Allam, D. L. Tucker, J. Annis, D. E. Johnston, R. Scranton, Y. Acebo, N. A. Bahcall, M. Bartelmann, H. Böhringer, N. Ellman, E. K. Grebel, L. Infante, J. Loveday, T. A. McKay, F. Prada, D. P. Schneider, C. Stoughton, A. S. Szalay, M. S. Vogeley, W. Voges and B. Yanny: A catalog of compact groups of galaxies in the SDSS commissioning data. *The Astronomical Journal* **127**, 1811-1859 (2004)

MacArthur, L. A., S. Courteau, E. Bell and J. A. Holtzman: Structure of disk-dominated galaxies. II. Color gradients and stellar population models. *The Astrophysical Journal Supplement Series* **152**, 175-199 (2004)

Maier, C., K. Meisenheimer and H. Hippelein: The metallicity-luminosity relation at medium redshift based on faint CADIS emission line galaxies. *Astronomy and Astrophysics* **418**, 475-485 (2004)

Martínez-Delgado, D., M. Á. Gómez-Flechoso, A. Aparicio and R. Carrera: Tracing out the Northern tidal stream of the Sagittarius dwarf spheroidal galaxy. *The Astrophysical Journal* **601**, 242-259 (2004)

McIntosh, D. H., H.-W. Rix and N. Caldwell: Structural evidence for environment-driven transformation of the blue galaxies in local Abell clusters: A85, A496, and A754. *The Astrophysical Journal* **610**, 161-182 (2004)

Morgan, N. D., J. A. R. Caldwell, P. L. Schechter, A. Dressler, E. Egami and H.-W. Rix: WFI J2026-4536 and WFI J2033-4723: Two new quadruple gravitational lenses. *The Astronomical Journal* **127**, 2617-2630 (2004)

Müller, S. H., M. Haas, R. Siebenmorgen, U. Klaas, K. Meisenheimer, R. Chini and M. Albrecht: Dust in 3CR radio galaxies: On the FR1-FR2 difference. *Astronomy and Astrophysics* **426**, L29-L32 (2004)

Murakawa, K., H. Suto, M. Tamura, N. Kaifu, H. Takami, N. Takato, S. Oya, Y. Hayano, W. Gaessler and Y. Kamata: CIAO: Coronagraphic imager with adaptive optics on the Subaru Telescope. *Publications of the Astronomical Society of Japan* **56**, 509-519 (2004)

Oguri, M., N. Inada, C. R. Keeton, B. Pindor, J. F. Hennawi, M. D. Gregg, R. H. Becker, K. Chiu, W. Zheng, S.-I. Ichikawa, Y. Suto, E. L. Turner, J. Annis, N. A. Bahcall, J. Brinkmann, F. J. Castander, D. J. Eisenstein, J. A. Frieman, T. Goto, J. E. Gunn, D. E. Johnston, S. M. Kent, R. C. Nichol, G. T. Richards, H.-W. Rix, D. P. Schneider, E. S. Sheldon and A. S. Szalay: Observations and theoretical implications of the large-separation lensed quasar SDSS J1004+4112. *The Astrophysical Journal* **605**, 78-97 (2004)

Peixinho, N., H. Boehnhardt, I. Belskaya, A. Doressoundiram, M. A. Barucci and A. Delsanti: ESO large program on Centaurs and TNOs: visible colors-final results. *Icarus* **170**, 153-166 (2004)

Prieto, M. A., K. Meisenheimer, O. Marco, J. Reunanen, M. Contini, Y. Clenet, R. I. Davies, D. Gratadour, T. Henning, U. Klaas, J. Kotilainen, C. Leinert, D. Lutz, D. Rouan and N. Thatte: Unveiling the central pc region of AGN: The Circinus Nucleus in the near-IR with the VLT. *The Astrophysical Journal* **614**, 135-141 (2004)

Pustilnik, S., A. Kniazev, A. Pramskij, Y. Izotov, C. Foltz, N. Brosch, J.-M. Martin and A. Ugryumov: HS 0837+4717 - a metal-deficient blue compact galaxy with large nitrogen excess. *Astronomy and Astrophysics* **419**, 469-484 (2004)

Reed, M. D., E. M. Green, K. Callera, I. R. Seitzzahl, B. A. White, E. A. Hyde, M. K. Giovanni, R. Ostensen, A. Bronowska, E. J. Jeffery, O. Cordes, S. Falter, H. Edelman, S. Dreizler and S. L. Schuh: Discovery of gravity-mode pulsators among subdwarf B stars: PG 1716+426, the class prototype. *The Astrophysical Journal* **607**, 445-450 (2004)

Rix, H.-W., M. Barden, S. V. W. Beckwith, E. F. Bell, A. Borch, J. A. R. Caldwell, B. Häussler,

K. Jahnke, S. Jogee, D. H. McIntosh, K. Meisenheimer, C. Y. Peng, S. F. Sanchez, R. S. Somerville, L. Wisotzki and C. Wolf: GEMS: Galaxy evolution from morphologies and SEDs. *The Astrophysical Journal Supplement Series* **152**, 163-173 (2004)

Rowan-Robinson, M., C. Lari, I. Perez-Fournon, E. A. Gonzalez-Solares, F. La Franca, M. Vaccari, S. Oliver, C. Gruppioni, P. Ciliegi, P. Héraudeau, S. Serjeant, A. Efstathiou, T. Babbedge, I. Matute, F. Pozzi, A. Franceschini, P. Vaisanen, A. Afonso-Luis, D. M. Alexander, O. Almaini, A. C. Baker, S. Basilakos, M. Barden, C. del Burgo, I. Bellas-Velidis, F. Cabrera-Guerra, R. Carballo, C. J. Cesarsky, D. L. Clements, H. Crockett, L. Danese, A. Dapergolas, B. Drolias, N. Eaton, E. Egami, D. Elbaz, D. Fadda, M. Fox, R. Genzel, P. Goldschmidt, J. I. Gonzalez-Serrano, M. Graham, G. L. Granato, E. Hatziminaoglou, U. Herbstmeier, M. Joshi, E. Kontizas, M. Kontizas, J. K. Kotilainen, D. Kunze, A. Lawrence, D. Lemke, M. J. D. Lindqvist, R. G. Mann, I. Márquez, J. Masegosa, R. G. McMahon, G. Miley, V. Missoulis, B. Mobasher, T. Morel, H. Norgaard-Nielsen, A. Omont, P. Papadopoulos, J.-L. Puget, D. Rigopoulou, B. Rocca-Volmerange, N. Sedgwick, L. Silva, T. Sumner, C. Surace, B. Vila-Vilaro, P. van der Werf, A. Verma, L. Vigroux, M. Villar-Martin, C. J. Willott, A. Carraminana and R. Mujica: The European Large-Area ISO Survey (ELAIS): the final band-merged catalogue. *Monthly Notices of the Royal Astronomical Society* **351**, 1290-1306 (2004)

Sabbadin, F., M. Turatto, E. Cappellaro, S. Benetti and R. Ragazzoni: The 3-D ionization structure and evolution of NGC 7009 (Saturn Nebula). *Astronomy and Astrophysics* **416**, 955-981 (2004)

Sanchez, S. F., K. Jahnke, L. Wisotzki, D. H. McIntosh, E. Bell, M. Barden, S. Beckwith, A. Borch, J. Caldwell, B. Häußler, S. Jogee, K. Meisenheimer, C. Y. Peng, H. W. Rix, R. S. Somerville and C. Wolf: Colors of AGN host galaxies at $0.5 < z < 1.1$ from GEMS Survey. *The Astrophysical Journal* **614**, 586-606 (2004)

Schirmer, M., T. Erben, P. Schneider, C. Wolf and K. Meisenheimer: GaBoDS: The Garching-Bonn Deep Survey. II. Confirmation of EIS cluster candidates by weak gravitational lensing. *Astronomy and Astrophysics* **420**, 75-78 (2004)

Schütz, O., H. Bönhardt, E. Pantin, M. Sterzik, S. Els, J. Hahn and T. Henning: A search for circumstellar dust disks with ADONIS. *Astronomy and Astrophysics* **424**, 613-618 (2004)

Stickel, M., D. Lemke, U. Klaas, O. Krause and S. Egner: The ISOPHOT 170 μm Serendipity Survey II. The catalog of optically identified galaxies. *Astronomy and Astrophysics* **422**, 39-54 (2004)

Stolte, A., W. Brandner, B. Brandl, H. Zinnecker and E. K. Grebel: The secrets of the nearest starburst cluster. I. Very Large Telescope/ISAAC photometry of NGC 3603. *The Astronomical Journal* **128**, 765-786 (2004)

Takami, H., N. Takato, Y. Hayano, M. Iye, S. Oya, Y. Kamata, T. Kanzawa, Y. Minowa, M. Otsubo, K. Nakashima, W. Gaessler and D. Saint-Jacques: Performance of Subaru Cassegrain Adaptive Optics System. *Publications of the Astronomical Society of Japan* **56**, 225-234 (2004)

Taylor, A. N., D. J. Bacon, M. E. Gray, C. Wolf, K. Meisenheimer, S. Dye, A. Borch, M. Kleinheinrich, Z. Kovacs and L. Wisotzki: Mapping the 3D dark matter with weak lensing in COMBO-17. *Monthly Notices of the Royal Astronomical Society* **353**, 1176-1196 (2004)

Tokunaga, A. T., S. Dahm, W. Gaessler, Y. Hayano, M. Hayashi, M. Iye, T. Kanzawa, N. Kobayashi, Y. Kamata, Y. Minowa, K. Nedachi, S. Oya, T.-S. Pyo, D. Saint-Jacques, H. Terada, H. Takami and N. Takato: H₂ emission nebulosity associated with KH 15D. *The Astrophysical Journal* **601**, L91-L94 (2004)

Tokunaga, A. T., B. Reipurth, W. Gaessler, Y. Hayano, M. Hayashi, M. Iye, T. Kanzawa, N. Kobayashi, Y. Kamata, Y. Minowa, K. Nedachi, S. Oya, T.-s. Pyo, D. Saint-Jacques, H. Terada, H. Takami and N. Takato: A subarcsecond companion to the T Tauri star AS 353B. *The Astronomical Journal* **127**, 444-448 (2004)

Tozzi, G. P., L. M. Lara, L. Kolokolova, H. Boehnhardt, J. Licandro and R. Schulz: Sublimating components in the coma of comet C/2000 WM₁ (LINEAR). *Astronomy and Astrophysics* **424**, 325-330 (2004)

Trujillo, I. and J. A. L. Aguerri: Quantitative morphological analysis of the Hubble Deep Field North and Hubble Deep Field South - I. Early- and late-type luminosity-size relations of galaxies out to $z \sim 1$. *Monthly Notices of the Royal Astronomical Society* **355**, 82-96 (2004)

Trujillo, I., A. Burkert and E. F. Bell: The tilt of the fundamental plane: Three-quarters structural nonhomology, one-quarter stellar population. *The Astrophysical Journal* **600**, L39-L42 (2004)

Trujillo, I., P. Erwin, A. A. Ramos and A. W. Graham: Evidence for a new elliptical-galaxy paradigm: Sérsic and core galaxies. *The Astronomical Journal* **127**, 1917-1942 (2004)

Trujillo, I., G. Rudnick, H.-W. Rix, I. Labbé, M. Franx, E. Daddi, P. G. van Dokkum, N. M. Förster Schreiber, K. Kuijken, A. Moorwood, H. Röttgering, A. van de Wel, P. van der Werf and L. van Starckenburg: The luminosity-size and mass-size relations of galaxies out to $z \sim 3$. *The Astrophysical Journal* **604**, 521-533 (2004)

van der Wel, A., M. Franx, P. G. van Dokkum and H.-W. Rix: The fundamental plane of field early-type galaxies at $z = 1$. *The Astrophysical Journal* **601**, L5-L8 (2004)

van Dokkum, P. G., M. Franx, N. M. Förster Schreiber, G. D. Illingworth, E. Daddi, K. K. Knudsen, I. Labbé, A. Moorwood, H.-W. Rix, H. Röttgering, G. Rudnick, I. Trujillo, P. van der Werf, A. van der Wel, L. van Starckenburg and S. Wuyts: Stellar populations and kinematics of red galaxies at $z > 2$: Implications for the formation of massive galaxies. *The Astrophysical Journal* **611**, 703-724 (2004)

Vazdekis, A., I. Trujillo and Y. Yamada: A correlation between light profile and [Mg/Fe] abundance ratio in early-type galaxies. *The Astrophysical Journal* **601**, L33-L36 (2004)

Verheijen, M. A. W., M. A. Bershad, D. R. Andersen, R. A. Swaters, K. Westfall, A. Kelz and M. M. Roth: The disk mass project; science case for a new PMAS IFU module. *Astronomische Nachrichten* **325**, 151-154 (2004)

Wolf, C., K. Meisenheimer, M. Kleinheinrich, A. Borch, S. Dye, M. Gray, L. Wisotzki, E. F. Bell, H.-W. Rix, A. Cimatti, G. Hasinger and G. Szokoly: A catalogue of the Chandra Deep Field South with multi-colour classification and photometric redshifts from COMBO-17. *Astronomy and Astrophysics* **421**, 913-936 (2004)

Zucker, D. B., A. Y. Kniazev, E. F. Bell, D. Martínez-Delgado, E. K. Grebel, H.-W. Rix, C. M. Rockosi, J. A. Holtzman, R. A. M. Waltherbos, J. Annis, D. G. York, Z. Ivezic, J. Brinkmann, H. Brewington, M. Harvanek, G. Hennessy, S. J. Kleinman, J. Krzesinski, D. Long, P. R. Newman, A. Nitta and S. A. Snedden: Andromeda IX: A new dwarf spheroidal satellite of M31. *The Astrophysical Journal* **612**, L121-L124 (2004)

Zucker, D. B., A. Y. Kniazev, E. F. Bell, D. Martínez-Delgado, E. K. Grebel, H.-W. Rix, C. M. Rockosi, J. A. Holtzman, R. A. M. Waltherbos, Z. Ivezic, J. Brinkmann, H. Brewington, M. Harvanek, S. J. Kleinman, J. Krzesinski, D. Q. Lamb, D. Long, P. R. Newman, A. Nitta and S. A. Snedden: A new giant stellar structure in the outer halo of M31. *The Astrophysical Journal* **612**, L117-L120 (2004)

Invited Papers and Reviews

Röttgering, H., W. J. Jaffe, K. Meisenheimer, H. Sol, C. Leinert, A. Richichi and M. Wittkowski: Observing the Seyfert 2 nucleus of NGC 1068 with the VLT interferometer. In: *New frontiers in stellar interferometry*, (Ed.) W. A. Traub. *SPIE* **5491**, SPIE, 9-18 (2004)

Contributed Papers

Burkert, A. and T. Naab: The formation of spheroidal stellar systems. In: *Coevolution of black holes and galaxies*, (Ed.) L. C. Ho. *Carnegie observatories astrophysics series*, Cambridge Univ. Pr., 422 (2004)

Dugue, M., B. Lopez, F. Przygodda, U. Graser, P. Gitton, S. Wolf, P. Mathias, P. Antonelli, J.

C. Augereau, N. Berruyer, Y. Bresson, O. Chesneau, A. Dutrey, S. Flament, A. Glazenberg-Kluttig, A. Glindemann, T. Henning, K.-H. Hofmann, S. Lagarde, Y. Hugues, C. Leinert, K. Meisenheimer, J.-L. Menut, R.-R. Rohloff, A. Roussel et al.: Recombining light of the VLTI at 10 microns by densifying the images. In: *New frontiers in stellar interferometry*, (Ed.) W. A. Traub. SPIE **5491**, SPIE, 1536-1539 (2004)

Egner, S. E., W. Gaessler, T. M. Herbst, R. Ragazzoni, R. Stuik, D. A. Andersen, C. Arcidiacono, H. Baumeister, U. Beckmann, J. Behrend, T. Bertram, P. Bizenberger, H. Boehnhardt, E. Diolaiti, T. Driebe, A. Eckhardt, J. Farinato, M. Kuerster, W. Laun, S. Ligorì, V. Naranjo, E. Nußbaum, H.-W. Rix, R.-R. Rohloff, P. Salinari et al.: LINC-NIRVANA: the single arm MCAO experiment. In: *Advancements in adaptive optics*, (Eds.) D. Bonaccini, B. L. Ellerbroek, R. Ragazzoni. SPIE **5490**, SPIE, 924-933 (2004)

Falter, S., H.-J. Röser, H. Hippelein, C. Wolf and E. Bell: HIROCS - a galaxy cluster survey at high redshifts. In: *Outskirts of galaxy clusters: Intense life in the suburbs*, (Ed.) A. Diaferio. IAU Symposium and Colloquium Proceedings Series 195, 233-235 (2004)

Farinato, J., R. Ragazzoni, C. Arcidiacono, B. Paolo, A. Baruffolo, H. Baumeister, R. Bisson, H. Böhnhardt, A. Brindisi, J. Brynnel, M. Cecconi, J. Coyne, B. Delabre, E. Diolaiti, R. Donaldson, E. Fedrigo, F. Franza, W. Gaessler, A. Ghedina, T. M. Herbst, N. N. Hubin, S. Kellner, J. Kolb, J.-L. Lizon, M. Lombini, E. Marchetti, G. Meneghini, L. Mohr, R. Reiss, R.-R. Rohloff, R. Soci, E. Vernet, R. Weiss, M. Xompero and W. Xu: Layer-oriented on paper, laboratory, and soon on the sky. In: *Emerging optoelectronic applications*, (Eds.) G. E. Jabbour, J. T. Rantala. SPIE **5382**, SPIE, 578-587 (2004)

Gaessler, W., R. Ragazzoni, T. M. Herbst, D. R. Andersen, C. Arcidiacono, H. Baumeister, U. Beckmann, J. Behrend, T. Bertram, P. Bizenberger, H. Böhnhardt, F. Briegel, E. Diolaiti, T. M. Driebe, A. Eckhardt, S. E. Egner, J. Farinato, M. Heininger, M. Kürster, W. Laun, S. Ligorì, V. Naranjo, E. Nussbaum, H.-W. Rix, R.-R. Rohloff et al.: LINC-NIRVANA: how to get a 23-m wavefront nearly flat. In: *Advancements in adaptive optics*, (Eds.) D. Bonaccini, B. L. Ellerbroek, R. Ragazzoni. SPIE **5490**, SPIE, 527-534 (2004)

Gallagher, J. S., E. K. Grebel and D. Harbeck: Spheroidal Dwarfs and Early Chemical Evolution of Galaxies. In: *Origin and evolution of the elements*, (Eds.) A. McWilliam, M. Rauch. Carnegie Observatories Astrophysics Series, Carnegie Observatories, 23 (2004)

Ghedina, A., W. Gaessler, M. Cecconi, R. Ragazzoni, A. T. Puglisi and F. De Bonis: Latest developments on the loop control system of AdOpt@TNG. In: *Advancements in adaptive optics*, (Eds.) D. Bonaccini, B. L. Ellerbroek, R. Ragazzoni. SPIE **5490**, SPIE, 1347-1355 (2004)

Gray, M. E., C. Wolf, K. Meisenheimer, A. Taylor, S. Dye, A. Borch and M. Kleinheinrich: Linking star formation and environment in supercluster galaxies. In: *Outskirts of galaxy clusters: Intense life in the suburbs*, (Ed.) A. Diaferio. IAU Colloquium 195, Cambridge Univ. Pr., 390-393 (2004)

Grebel, E. K.: The evolutionary history of local group irregular galaxies. In: *Origin and evolution of the elements*, (Eds.) A. McWilliam, M. Rauch. Carnegie Observatories Astrophysics Series, Cambridge Univ. Pr., 237 (2004)

Herbst, T. M., R. Ragazzoni, A. Eckart and G. Weigelt: The LINC-NIRVANA interferometric imager for the Large Binocular Telescope. In: *UV and Gamma-Ray Space Telescope Systems*, (Eds.) G. Hasinger, M. J. L. Turner. SPIE **5492**, SPIE, 1045-1052 (2004)

Hippler, S., D. P. Looze and W. Gaessler: Off-the-shelf real-time computers for next-generation adaptive optics. In: *Advancements in adaptive optics*, (Eds.) D. Bonaccini, B. L. Ellerbroek, R. Ragazzoni. SPIE **5490**, SPIE, 1402-1413 (2004)

Kellner, S., R. Ragazzoni, W. Gaessler, E. Diolaiti, J. Farinato, C. Arcidiacono, R. M. Myers, T. J. Morris and A. Ghedina: PIGS on sky - dream or reality? In: *Emerging optoelectronic applications*, (Eds.) G. E. Jabbour, J. T. Rantala. SPIE **5382**, SPIE, 520-525 (2004)

Koch, A., E. K. Grebel, M. Odenkirchen and J. A. R. Caldwell: Correcting spatial gradients. *The Messenger* **115**, 37-39 (2004)

Kovács, Z., U. Mall, P. Bizenberger, H. Baumeister and H.-J. Röser: Characterization, testing,

and operation of Omega2000 wide-field infrared camera. In: Optical and infrared detectors for astronomy, (Eds.) J. D. Garnett, J. W. Beletic. SPIE 5499, SPIE, 432-441 (2004)

Lee, H., E. K. Grebel and P. W. Hodge: Oxygen abundances of nearby southern dwarf galaxies. In: Origin and evolution of the elements, (Eds.) A. McWilliam, M. Rauch. Carnegie Observatories Astrophysics Series, Carnegie Observatories, 34 (2004)

Lopez, B., F. Przygodda, S. Wolf, M. Dugue, U. Graser, P. Gitton, P. Mathias, P. Antonelli, J. C. Augereau, N. Berruyer, Y. Bresson, O. Chesneau, A. Dutrey, S. Flament, A. Glazenberg, A. Glindemann, T. Henning, K.-H. Hofmann, Y. Hugues, S. Lagarde, C. Leinert, K. Meisenheimer, J.-L. Menut, R.-R. Rohloff, A. Roussel et al.: APreS-MIDI, APerture synthesis in the MID-infrared with the VLTI. In: New frontiers in stellar interferometry, (Ed.) W. A. Traub. SPIE **5491**, SPIE, 433-438 (2004)

Mandel, H., I. Appenzeller, W. Seifert, H. Baumeister, P. Bizenberger, R.-J. Dettmar, H. Gemperlein, B. Grimm, T. M. Herbst, R. Hofmann, M. Jutte, W. Laun, M. Lehmitz, S. Ligori, R. Lenzen, K. Polsterer, R.-R. Rohloff, A. Schuetze, A. Seltmann, P. Weiser, H. Weisz and W. Xu: LUCIFER status report, summer 2004. In: UV and Gamma-Ray Space Telescope Systems, (Eds.) G. Hasinger, M. J. L. Turner. SPIE **5492**, SPIE, 1208-1217 (2004)

Masciadri, E. and S. E. Egner: First complete seasonal variation study of the 3D optical turbulence above San Pedro Martir Observatory. In: Advancements in adaptive optics, (Eds.) D. Bonaccini, B. L. Ellerbroek, R. Ragazzoni. SPIE **5490**, SPIE, 818-829 (2004)

Newberg, H. J., B. Yanny, E. K. Grebel, D. Martínez-Delgado, M. Odenkirchen and H.-W. Rix: Galactic halo substructure from A-F stars in the SDSS. In: Milky Way Surveys: The structure and evolution of our galaxy, (Eds.) D. Clemens, R. Shah, T. Brainerd. ASP Conf. Ser. **317**, ASP, 264-267 (2004)

Omont, A., T. P. Team, W. Zheng, H. C. Ford, J. W. Kruk, Z. I. Tsvetanov, A. S. Szalay, P. K. Shu, M. A. Greenhouse, G. Hartig, M. Postman, H. S. Stockman, G. M. Voit, R. Lenzen, H.-W. Rix, S. Kent, C. Stoughton and Y. Mellier: PRIME: A deep near-infrared survey project. In: Toward an International Virtual Observatory, (Eds.) P. J. Quinn, K. M. Gorski. ESO Astrophysics Symposia, Springer, 298 (2004)

Oya, S., N. Takato, H. Takami, Y. Hayano, M. Iye, H. Terada, K. Murakawa, Y. Minowa, M. Hattori, M. Watanabe, Y. Kamata, T. Kanzawa, T. Kane and W. Gaessler: Subaru adaptive optics system after two years of open use. In: Advancements in adaptive optics, (Eds.) D. Bonaccini, B. L. Ellerbroek, R. Ragazzoni. SPIE **5490**, SPIE, 409-420 (2004)

Peng, C. Y., C. D. Impey, E. E. Falco, C. R. Keeton, C. S. Kochanek, J. Lehar, B. McLeod, J. Munoz, H.-W. Rix and D. Rusin: Lensed quasar host galaxies. In: Coevolution of black holes and galaxies, (Ed.) L. C. Ho. Carnegie Observatories Astrophysics Series, Carnegie Observatories, 49 (2004)

Peng, C. Y., C. D. Impey, H.-W. Rix, C. S. Kochanek, E. E. Falco, J. Lehar, B. A. McLeod and C. R. Keeton: Possible supernova associated with Q0957+561. International Astronomical Union Circular **8298**, 1 (2004)

Röser, H.-J., H. Hippelein and C. Wolf: The Heidelberg InfraRed / Optical Cluster Survey (HIROCS). In: Clusters of galaxies: Probes of cosmological structure and galaxy evolution, (Eds.) J. S. Mulchaey, A. Dressler, A. Oemler, Jr. Carnegie Observatories Astrophysics Series **3**, Carnegie Observatories, (2004)

Shields, J. C., H.-W. Rix, A. J. Barth, A. V. Filippenko, L. C. Ho, D. H. McIntosh, G. Rudnick, W. L. W. Sargent and M. Sarzi: Black holes as traced by weak active nuclei. In: Coevolution of black holes and galaxies, (Ed.) L. C. Ho. Carnegie Observatories Astrophysics Series, Carnegie Observatories, 58 (2004)

Soci, R., R. Ragazzoni, T. M. Herbst, J. Farinato, W. Gaessler, H. Baumeister, R.-R. Rohloff, E. Diolaiti, W. Xu, D. R. Andersen, S. E. Egner, C. Arcidiacono, M. Lombini, M. Ebert, A. Boehm, N. Muench and M. Xompero: LINC-NIRVANA: mechanical challenges of the MCAO wavefront sensor. In: Advancements in adaptive optics, (Eds.) D. Bonaccini, B. L. Ellerbroek, R. Ragazzoni. SPIE **5490**, SPIE, 1286-1295 (2004)

Walcher, C. J., N. Häring, T. Böker, H.-W. Rix, R. P. van der Marel, J. Gerssen, L. C. Ho and J.

C. Shields: Nuclear star clusters in bulgeless galaxies. In: Coevolution of black holes and galaxies, (Ed.) L. C. Ho. Carnegie Observatories Astrophysics Series, Carnegie Observatories, 64 (2004)

Zucker, D. B. and T. K. Wyder: Metallicities of RGB stars in local group dwarf irregular galaxies. In: Metallicities of RGB stars in local group dwarf irregular galaxies, (Eds.) A. McWilliam, M. Rauch. Carnegie Observatories Astrophysics Series, Carnegie Observatories, 62 (2004)

Verantwortlich / Responsible: Axel M. Quetz
Letzte Änderung / Last updated: 4. April 2005