Übersicht / *Summary*

Planeten- und Sternentstehung/ *Planet and Star Formation* (2014)

Refereed Papers:

Albertsson, T., N. Indriolo, H. Kreckel, D. Semenov, K. N. Crabtree and T. Henning: First time-dependent study of H_2 and H_3^+ ortho-para chemistry in the diffuse interstellar medium: Observations meet theoretical predictions. The Astrophysical Journal **787**, id. 44 (10 pp) (2014)

Albertsson, T., D. Semenov and T. Henning: Chemodynamical deuterium rractionation in the early solar nebula: The origin of water on Earth and in asteroids and comets. The Astrophysical Journal **784**, id. 39 (11 pp) (2014)

Albrecht, S., J. N. Winn, G. Torres, D. C. Fabrycky, J. Setiawan, M. Gillon, E. Jehin, A. Triaud, D. Queloz, I. Snellen and P. Eggleton: The BANANA project. V. Misaligned and precessing stellar rotation axes in CV Velorum. The Astrophysical Journal **785**, id. 83 (11 pp) (2014)

Andersen, M., W.-F. Thi, J. Steinacker and N. Tothill: A common column density threshold for scattering at 3.6 μm and water-ice in molecular clouds. Astronomy and Astrophysics **568**, id. L3 (5 pp) (2014)

Andrews, S. M., C. J. Chandler, A. Isella, T. Birnstiel, K. A. Rosenfeld, D. J. Wilner, L. M. Pérez, L. Ricci, J. M. Carpenter, N. Calvet, S. A. Corder, A. T. Deller, C. P. Dullemond, J. S. Greaves, R. J. Harris, T. Henning, W. Kwon, J. Lazio, H. Linz, L. G. Mundy, A. I. Sargent, S. Storm and L. Testi: Resolved multifrequency radio observations of GG Tau. The Astrophysical Journal **787**, id. 148 (12 pp) (2014)

Angeloni, R., R. Contreras Ramos, M. Catelan, I. Dékány, F. Gran, J. Alonso-García, M. Hempel, C. Navarrete, H. Andrews, A. Aparicio, J. C. Beamín, C. Berger, J. Borissova, C. Contreras Peña, A. Cunial, R. de Grijs, N. Espinoza, S. Eyheramendy, C. E. Ferreira Lopes, M. Fiaschi, G. Hajdu, J. Han, K. G. Helminiak, A. Hempel, S. L. Hidalgo, Y. Ita, Y.-B. Jeon, A. Jordán, J. Kwon, J. T. Lee, E. L. Martín, N. Masetti, N. Matsunaga, A. P. Milone, D. Minniti, L. Morelli, F. Murgas, T. Nagayama, C. Navarro, P. Ochner, P. Pérez, K. Pichara, A. Rojas-Arriagada, J. Roquette, R. K. Saito, A. Siviero, J. Sohn, H.-I. Sung, M. Tamura, R. Tata, L. Tomasella, B. Townsend and P. Whitelock: The VVV Templates Project Towards an automated classification of VVV light-curves. I. Building a database of stellar variability in the near-infrared. Astronomy and Astrophysics **567**, id. A100 (11 pp) (2014)

Bally, J., J. M. Rathborne, S. N. Longmore, J. M. Jackson, J. F. Alves, E. Bressert, Y. Contreras, J. B. Foster, G. Garay, A. Ginsburg, K. G. Johnston, J. M. D. Kruijssen, L. Testi and A. J. Walsh: Absorption filaments toward the massive clump G0.253+0.016. The Astrophysical Journal **795**, id. 28 (19 pp) (2014)

Balog, Z., T. Müller, M. Nielbock, B. Altieri, U. Klaas, J. Blommaert, H. Linz, D. Lutz, A. Moór, N. Billot, M. Sauvage and K. Okumura: The Herschel-PACS photometer calibration - Point-source flux calibration for scan maps. Experimental Astronomy **37**, 129-160 (2014)

Balog, Z., J. Muzerolle, K. Flaherty, Ö. H. Detre, J. Bouwmann, E. Furlan, R. Gutermuth, A. Juhasz, J. Bally, M. Nielbock, U. Klaas, O. Krause, T. Henning and G. Marton: The extraordinary far-infrared variation of a protostar: Herschel/PACS observations of LRLL54361. The Astrophysical Journal Letters **789**, id. L38 (5 pp) (2014)

Bastian, N., A. Adamo, M. Schirmer, K. Hollyhead, Y. Beletsky, G. Carraro, B. Davies, M. Gieles and E. Silva-Villa: The effect of spatial resolution on optical and near-IR studies of stellar clusters: implications for the origin of the red excess. Monthly Notices of the Royal Astronomical Society **444**, 3829-3836 (2014)

Bazzon, A., H. M. Schmid and E. Buenzli: HST observations of the limb polarization of Titan.

Astronomy and Astrophysics **572**, id. A6 (13 pp) (2014)

Beamín, J. C., V. D. Ivanov, A. Bayo, K. Muzic, H. M. J. Boffin, F. Allard, D. Homeier, D. Minniti, M. Gromadzki, R. Kurtev, N. Lodieu, E. L. Martin and R. A. Mendez: Temperature constraints on the coldest brown dwarf known: WISE 0855-0714. Astronomy and Astrophysics **570**, id. L8 (4 pp) (2014)

Bétrémieux, Y. and L. Kaltenegger: Impact of atmospheric refraction: how deeply can we probe exo-earth's atmospheres during primary eclipse observations? The Astrophysical Journal **791**, id. 7 (12 pp) (2014)

Beuther, H., S. E. Ragan, V. Ossenkopf, S. Glover, T. Henning, H. Linz, M. Nielbock, O. Krause, J. Stutzki, P. Schilke and R. Güsten: Carbon in different phases ([CII], [CI], and CO) in infrared dark clouds: Cloud formation signatures and carbon gas fractions. Astronomy and Astrophysics **571**, id. A53 (15 pp) (2014)

Biddle, L. I., K. A. Pearson, I. J. M. Crossfield, B. J. Fulton, S. Ciceri, J. Eastman, T. Barman, A. W. Mann, G. W. Henry, A. W. Howard, M. H. Williamson, E. Sinukoff, D. Dragomir, L. Vican, L. Mancini, J. Southworth, A. Greenberg, J. D. Turner, R. Thompson, B. W. Taylor, S. E. Levine and M. W. Webber: Warm ice giant GJ 3470b - II. Revised planetary and stellar parameters from optical to near-infrared transit photometry. Monthly Notices of the Royal Astronomical Society **443**, 1810-1820 (2014)

Bik, A., A. Stolte, M. Gennaro, W. Brandner, D. Gouliermis, B. Hußmann, E. Tognelli, B. Rochau, T. Henning, A. Adamo, H. Beuther, A. Pasquali and Y. Wang: Deep near-infrared imaging of W3 Main: constraints on stellar cluster formation. Astronomy and Astrophysics **561**, id.A12 (15 pp) (2014)

Biller, B. A., J. Males, T. Rodigas, K. Morzinski, L. M. Close, A. Juhász, K. B. Follette, S. Lacour, M. Benisty, A. Sicilia-Aguilar, P. M. Hinz, A. Weinberger, T. Henning, J.-U. Pott, M. Bonnefoy and R. Köhler: An enigmatic point-like feature within the HD 169142 transitional disk. The Astrophysical Journal Letters **792**, id. L22 (6 pp) (2014)

Birkby, J. L., M. Cappetta, P. Cruz, J. Koppenhoefer, O. Ivanyuk, A. J. Mustill, S. T. Hodgkin, D. J. Pinfield, B. Sipocz, G. Kovács, R. Saglia, Y. Pavlenko, D. Barrado, A. Bayo, D. Campbell, S. Catalan, L. Fossati, M.-C. Gálvez-Ortiz, M. Kenworthy, J. Lillo-Box, E. L. Martín, D. Mislis, E. J. W. de Mooij, S. V. Nefs, I. A. G. Snellen, H. Stoev, J. Zendejas, C. del Burgo, J. Barnes, N. Goulding, C. A. Haswell, M. Kuznetsov, N. Lodieu, F. Murgas, E. Palle, E. Solano, P. Steele and R. Tata: WTS-2 b: a hot Jupiter orbiting near its tidal destruction radius around a K dwarf. Monthly Notices of the Royal Astronomical Society **440**, 1470-1489 (2014)

Blecic, J., J. Harrington, N. Madhusudhan, K. B. Stevenson, R. A. Hardy, P. E. Cubillos, M. Hardin, O. Bowman, S. Nymeyer, D. R. Anderson, C. Hellier, A. M. S. Smith and A. Collier Cameron: Spitzer observations of the thermal emission from WASP-43b. The Astrophysical Journal **781**, id. 116 (11 pp) (2014)

Bonnefoy, M., G. Chauvin, A.-M. Lagrange, P. Rojo, F. Allard, C. Pinte, C. Dumas and D. Homeier: A library of near-infrared integral field spectra of young M-L dwarfs. Astronomy and Astrophysics **562**, id. A127 (26 pp) (2014)

Bonnefoy, M., T. Currie, G.-D. Marleau, J. E. Schlieder, J. Wisniewski, J. Carson, K. R. Covey, T. Henning, B. Biller, P. Hinz, H. Klahr, A. N. Marsh Boyer, N. Zimmerman, M. Janson, M. McElwain, C. Mordasini, A. Skemer, V. Bailey, D. Defrère, C. Thalmann, M. Skrutskie, F. Allard, D. Homeier, M. Tamura, M. Feldt, A. Cumming, C. Grady, W. Brandner, C. Helling, S. Witte, P. Hauschildt, R. Kandori, M. Kuzuhara, M. Fukagawa, J. Kwon, T. Kudo, J. Hashimoto, N. Kusakabe, L. Abe, T. Brandt, S. Egner, O. Guyon, Y. Hayano, M. Hayashi, S. Hayashi, K. Hodapp, M. Ishii, M. Iye, G. Knapp, T. Matsuo, K. Mede, M. Miyama, J.-I. Morino, A. Moro-Martin, T. Nishimura, T. Pyo, E. Serabyn, T. Suenaga, H. Suto, R. Suzuki, Takahashi, M. Takami, N. Takato, H. Terada, D. Tomono, E. Turner, M. Watanabe, T. Yamada, H. Takami and T. Usuda: Characterization of the gaseous companion æ Andromedae b. New Keck and LBTI high-contrast observations. Astronomy and Astrophysics **562**, id. A111 (20 pp) (2014)

Bonnefoy, M., G.-D. Marleau, R. Galicher, H. Beust, A.-M. Lagrange, J.-L. Baudino, G. Chauvin, S. Borgniet, N. Meunier, J. Rameau, A. Boccaletti, A. Cumming, C. Helling, D. Homeier, F. Allard and P. Delorme: Physical and orbital properties of β Pictoris b. Astronomy and

Astrophysics **567**, id.L9 (6 pp) (2014)

Boyajian, T. S., G. van Belle and K. von Braun: Stellar diameters and temperatures. IV. Predicting stellar angular diameters. The Astronomical Journal **147**, id. 47 (15 pp) (2014)

Boyajian, T. S., K. von Braun, G. van Belle, C. Farrington, G. Schaefer, J. Jones, R. White, H. A. McAlister, T. A. ten Brummelaar, S. Ridgway, D. Gies, L. Sturmann, J. Sturmann, N. H. Turner, P. J. Goldfinger and N. Vargas: Erratum: "Stellar diameters and temperatures. III. Main sequence A, F, G, and K stars: Additional high-precision measurements and empirical relations" (2013, ApJ, 771, 40). The Astrophysical Journal **787**, id. 92 (3 pp) (2014)

Braga-Ribas, F., B. Sicardy, J. L. Ortiz, C. Snodgrass, F. Roques, R. Vieira-Martins, J. I. B. Camargo, M. Assafin, R. Duffard, E. Jehin, J. Pollock, R. Leiva, M. Emilio, D. I. Machado, C. Colazo, E. Lellouch, J. Skottfelt, M. Gillon, N. Ligier, L. Maquet, G. Benedetti-Rossi, A. R. Gomes, P. Kervella, H. Monteiro, R. Sfair, M. El Moutamid, G. Tancredi, J. Spagnotto, A. Maury, N. Morales, R. Gil-Hutton, S. Roland, A. Ceretta, S.-H. Gu, X.-B. Wang, K. Harpsøe, M. Rabus, J. Manfroid, C. Opitom, L. Vanzi, L. Mehret, L. Lorenzini, E. M. Schneiter, R. Melia, J. Lecacheux, F. Colas, F. Vachier, T. Widemann, L. Almenares, R. G. Sandness, F. Char, V. Perez, P. Lemos, N. Martinez, U. G. Jørgensen, M. Dominik, F. Roig, D. E. Reichart, A. P. Lacluyze, J. B. Haislip, K. M. Ivarsen, J. P. Moore, N. R. Frank and D. G. Lambas: A ring system detected around the Centaur (10199) Chariklo. Nature **508**, 72-75 (2014)

Brandt, T. D., M. Kuzuhara, M. W. McElwain, J. E. Schlieder, J. P. Wisniewski, E. L. Turner, J. Carson, T. Matsuo, B. Biller, M. Bonnefoy, C. Dressing, M. Janson, G. R. Knapp, A. Moro-Martín, C. Thalmann, T. Kudo, N. Kusakabe, J. Hashimoto, L. Abe, W. Brandner, T. Currie, S. Egner, M. Feldt, T. Golota, M. Goto, C. A. Grady, O. Guyon, Y. Hayano, M. Hayashi, S. Hayashi, T. Henning, K. W. Hodapp, M. Ishii, M. Iye, R. Kandori, J. Kwon, K. Mede, S. Miyama, J.-I. Morino, T. Nishimura, T.-S. Pyo, E. Serabyn, T. Suenaga, H. Suto, R. Suzuki, M. Takami, Y. Takahashi, N. Takato, H. Terada, D. Tomono, M. Watanabe, T. Yamada, H. Takami, T. Usuda and M. Tamura: The moving group targets of the SEEDS high-contrast imaging survey of exoplanets and disks: Results and observations from thefirst three years. The Astrophysical Journal **786**, id. 1 (25 pp) (2014)

Brandt, T. D., M. W. McElwain, E. L. Turner, K. Mede, D. S. Spiegel, M. Kuzuhara, J. E. Schlieder, J. P. Wisniewski, L. Abe, B. Biller, W. Brandner, J. Carson, T. Currie, S. Egner, M. Feldt, T. Golota, M. Goto, C. A. Grady, O. Guyon, J. Hashimoto, Y. Hayano, M. Hayashi, S. Hayashi, T. Henning, K. W. Hodapp, S. Inutsuka, M. Ishii, M. Iye, M. Janson, R. Kandori, G. R. Knapp, T. Kudo, N. Kusakabe, J. Kwon, T. Matsuo, S. Miyama, J.-I. Morino, A. Moro-Martín, T. Nishimura, T.-S. Pyo, E. Serabyn, H. Suto, R. Suzuki, M. Takami, N. Takato, H. Terada, C. Thalmann, D. Tomono, M. Watanabe, T. Yamada, H. Takami, T. Usuda and M. Tamura: A statistical analysis of SEEDS and other high-contrast exoplanet surveys: Massive planets or low-mass brown dwarfs? The Astrophysical Journal **794**, id. 159 (25 pp) (2014)

Brinch, C. and C. P. Dullemond: Interferometer predictions with triangulated images: solving the multiscale problem. Monthly Notices of the Royal Astronomical Society **440**, 3285-3291 (2014)

Buenzli, E., D. Apai, J. Radigan, I. N. Reid and D. Flateau: Brown dwarf photospheres are patchy: A Hubble Space Telescope Near-infrared Spectroscopic Survey finds frequent low-level variability. The Astrophysical Journal **782**, id. 77 (18 pp) (2014)

Butler, M. J., J. C. Tan and J. Kainulainen: The darkest shadows: Deep mid-infrared extinction mapping of a massive protocluster. The Astrophysical Journal Letters **782**, id. L30 (6 pp) (2014)

Calchi Novati, S., V. Bozza, I. Bruni, M. Dall'Ora, F. De Paolis, M. Dominik, R. Gualandi, G. Ingrosso, P. Jetzer, L. Mancini, A. Nucita, M. Safonova, G. Scarpetta, M. Sereno, F. Strafella, A. Subramaniam, A. Gould and P. Collaboration: The M31 Pixel Lensing PLAN campaign: MACHO lensing and self-lensing signals. The Astrophysical Journal **783**, id. 86 (11 pp) (2014)

Carmona, A., C. Pinte, W. F. Thi, M. Benisty, F. Ménard, C. Grady, I. Kamp, P. Woitke, J. Olofsson, A. Roberge, S. Brittain, G. Duchêne, G. Meeus, C. Martin-Zaïdi, B. Dent, J. B. Le Bouquin and J. P. Berger: Constraining the structure of the transition disk HD 135344B (SAO 206462) by simultaneous modeling of multiwavelength gas and dust observations. Astronomy and Astrophysics **567**, id. A51(23 pp) (2014)

Chen, C.-H. R., R. Indebetouw, E. Muller, A. Kawamura, K. D. Gordon, M. Sewilo, B. A. Whitney, Y. Fukui, S. C. Madden, M. R. Meade, M. Meixner, J. M. Oliveira, T. P. Robitaille, J. P. Seale, B. Shiao and J. T. van Loon: Spitzer view of massive star formation in thetidally stripped Magellanic Bridge. The Astrophysical Journal **785**, id. 162 (29 pp) (2014)

Chen, G., R. van Boekel, N. Madhusudhan, H. Wang, N. Nikolov, U. Seemann and T. Henning: Ground-based detection of the near-infrared emission from the dayside of WASP-5b. Astronomy and Astrophysics **564**, id. A6 (12 pp) (2014)

Chen, G., R. van Boekel, H. Wang, N. Nikolov, J. J. Fortney, U. Seemann, W. Wang, L. Mancini and T. Henning: Broad-band transmission spectrum and K-band thermal emission of WASP-43b as observed from the ground. Astronomy and Astrophysics **563**, id. A40 (14 pp) (2014)

Chen, G., R. van Boekel, H. Wang, N. Nikolov, U. Seemann and T. Henning: Observed spectral energy distribution of the thermal emission from the dayside of WASP-46b. Astronomy and Astrophysics **567**, id. A8 (8 pp) (2014)

Chira, R.-A., R. J. Smith, R. S. Klessen, A. M. Stutz and R. Shetty: Line profiles of cores within clusters - III. What is the most reliable tracer of core collapse in dense clusters? Monthly Notices of the Royal Astronomical Society **444**, 874-886 (2014)

Cloutier, R., T. Currie, G. H. Rieke, S. J. Kenyon, Z. Balog and R. Jayawardhana: A deep Spitzer Survey of circumstellar disks in the young double cluster, h and χ Persei. The Astrophysical Journal **796**, id. 127 (27 pp) (2014)

Correia, C., B. Burkhart, A. Lazarian, V. Ossenkopf, J. Stutzki, J. Kainulainen, G. Kowal and J. R. de Medeiros: Opacity broadening of ^{13}CO linewidths and its effect on the variance-sonic Mach number relation. The Astrophysical Journal Letters **785**, id. L1 (6 pp) (2014)

Crossfield, I. J. M.: Doppler imaging of exoplanets and brown dwarfs. Astronomy and Astrophysics **566**, id. A130 (9 pp) (2014)

Crossfield, I. J. M., B. Biller, J. E. Schlieder, N. R. Deacon, M. Bonnefoy, D. Homeier, F. Allard, E. Buenzli, T. Henning, W. Brandner, B. Goldman and T. Kopytova: A global cloud map of the nearest known brown dwarf. Nature **505**, 654-656 (2014)

Csengeri, T., J. S. Urquhart, F. Schuller, F. Motte, S. Bontemps, F. Wyrowski, K. M. Menten, L. Bronfman, H. Beuther, T. Henning, L. Testi, A. Zavagno and M. Walmsley: The ATLASGAL survey: a catalog of dust condensations in the Galactic plane. Astronomy and Astrophysics **565**, id. A75 (21 pp) (2014)

Csépány, G., P. Ábrahám, Z. Regály, G. Mezo, W. Brandner and F. Hormuth: Examining young stellar systems in birth by high angular resolution observations. Contributions of the Astronomical Observatory Skalnate Pleso **43**, 425-426 (2014)

Cubillos, P., J. Harrington, N. Madhusudhan, A. S. D. Foster, N. B. Lust, R. A. Hardy and M. O. Bowman: A Spitzer five-band analysis of the Jupiter-sized planet TrES-1. The Astrophysical Journal **797**, id. 42 (16 pp) (2014)

Currie, T., T. Muto, T. Kudo, M. Honda, T. D. Brandt, C. Grady, M. Fukagawa, A. Burrows, M. Janson, M. Kuzuhara, M. W. McElwain, K. Follette, J. Hashimoto, T. Henning, R. Kandori, N. Kusakabe, J. Kwon, K. Mede, J.-i. Morino, J. Nishikawa, T.-S. Pyo, G. Serabyn, T. Suenaga, Y. Takahashi, J. Wisniewski and M. Tamura: Recovery of the candidate protoplanet HD 100546 b with Gemini/NICI and detection of additional (planet-induced?) disk structure at small separations. The Astrophysical Journal Letters **796**, id. L30 (6 pp) (2014)

Deacon, N. R., D. W. Hoard, E. A. Magnier, Y. S. Jadhav, M. Huber, K. C. Chambers, H. Flewelling, K. W. Hodapp, N. Kaiser, R. P. Kudritzki, N. Metcalfe and C. Waters: Pre-outburst observations of Nova Del 2013 from Pan-STARRS 1. Astronomy and Astrophysics **563**, id. A129 (4 pp) (2014)

Deacon, N. R., M. C. Liu, E. A. Magnier, K. M. Aller, W. M. J. Best, T. Dupuy, B. P. Bowler, A. W. Mann, J. A. Redstone, W. S. Burgett, K. C. Chambers, P. W. Draper, H. Flewelling, K. W. Hodapp, N. Kaiser, R.-P. Kudritzki, J. S. Morgan, N. Metcalfe, P. A. Price, J. L. Tonry and R. J.

Wainscoat: Wide cool and ultracool companions to nearby stars from Pan-STARRS 1. The Astrophysical Journal **792**, id. 119 (40 pp) (2014)

Desidera, S., A. S. Bonomo, R. U. Claudi, M. Damasso, K. Biazzo, A. Sozzetti, F. Marzari, S. Benatti, D. Gandolfi, R. Gratton, A. F. Lanza, V. Nascimbeni, G. Andreuzzi, L. Affer, M. Barbieri, L. R. Bedin, A. Bignamini, M. Bonavita, F. Borsa, P. Calcidese, J. M. Christille, R. Cosentino, E. Covino, M. Esposito, P. Giacobbe, A. Harutyunyan, D. Latham, M. Lattanzi, G. Leto, G. Lodato, C. Lovis, A. Maggio, L. Malavolta, L. Mancini, A. F. Martinez Fiorenzano, G. Micela, E. Molinari, C. Mordasini, U. Munari, I. Pagano, M. Pedani, F. Pepe, G. Piotto, E. Poretti, M. Rainer, I. Ribas, N. C. Santos, G. Scandariato, R. Silvotti, J. Southworth and R. Zanmar Sanchez: The GAPS programme with HARPS-N at TNG. IV. A planetary system around XO-2S. Astronomy and Astrophysics **567**, id. L6 (6 pp) (2014)

Di Folco, E., A. Dutrey, J.-B. Le Bouquin, S. Lacour, J.-P. Berger, R. Köhler, S. Guilloteau, V. Piétu, J. Bary, T. Beck, H. Beust and E. Pantin: GG Tauri: the fifth element. Astronomy and Astrophysics **565**, id. L2 (6 pp) (2014)

Dittkrist, K.-M., C. Mordasini, H. Klahr, Y. Alibert and T. Henning: Impacts of planet migration models on planetary populations. Effects of saturation, cooling and stellar irradiation. Astronomy and Astrophysics **567**, id. A121 (18 pp) (2014)

Draine, B. T., G. Aniano, O. Krause, B. Groves, K. Sandstrom, R. Braun, A. Leroy, U. Klaas, H. Linz, H.-W. Rix, E. Schinnerer, A. Schmiedeke and F. Walter: Andromeda's dust. The Astrophysical Journal **780**, id. 172 (18 pp) (2014)

Drummond, J. D., B. Carry, W. J. Merline, C. Dumas, H. Hammel, S. Erard, A. Conrad, P. Tamblyn and C. R. Chapman: Dwarf planet Ceres: Ellipsoid dimensions and rotational pole from Keck and VLT adaptive optics images. Icarus **236**, 28-37 (2014)

Dunham, M. M., H. G. Arce, D. Mardones, J.-E. Lee, B. C. Matthews, A. M. Stutz and J. P. Williams: Molecular outflows driven by low-mass protostars. I. Correcting for underestimates when measuring outflow masses and dynamical properties. The Astrophysical Journal **783**, id. 29 (30 pp) (2014)

Elliott, P., A. Bayo, C. H. F. Melo, C. A. O. Torres, M. Sterzik and G. R. Quast: Search for associations containing young stars (SACY). V. Is multiplicity universal? Tight multiple systems. Astronomy and Astrophysics **568**, id. A26 (22 pp) (2014)

Elliott, P., A. Bayo, C. H. F. Melo, C. A. O. Torres, M. Sterzik and G. R. Quast: Search for associations containing young stars (SACY). V. Is multiplicity universal? Tight multiple systems. Astronomy and Astrophysics **568**, id. A26 (22 pp) (2014)

Elmegreen, D. M., B. G. Elmegreen, A. Adamo, A. Aloisi, J. Andrews, F. Annibali, S. N. Bright, D. Calzetti, M. Cignoni, A. S. Evans, J. S. Gallagher, III, D. A. Gouliermis, E. K. Grebel, D. A. Hunter, K. Johnson, H. Kim, J. Lee, E. Sabbi, L. J. Smith, D. Thilker, M. Tosi and L. Ubeda: Hierarchical star formation in nearby LEGUS galaxies. The Astrophysical Journal Letters **787**, id. L15 (7 pp) (2014)

Esposito, M., E. Covino, L. Mancini, A. Harutyunyan, J. Southworth, K. Biazzo, D. Gandolfi, A. F. Lanza, M. Barbieri, A. S. Bonomo, F. Borsa, R. Claudi, R. Cosentino, S. Desidera, R. Gratton, I. Pagano, A. Sozzetti, C. Boccato, A. Maggio, G. Micela, E. Molinari, V. Nascimbeni, G. Piotto, E. Poretti and R. Smareglia: The GAPS Programme with HARPS-N at TNG. III: The retrograde orbit of HAT-P-18b. Astronomy and Astrophysics **564**, id. L13 (5 pp) (2014)

Fang, M., A. Sicilia-Aguilar, V. Roccatagliata, D. Fedele, T. Henning, C. Eiroa and A. Müller: GW Orionis: Inner disk readjustments in a triple system. Astronomy and Astrophysics **570**, id. A118 (22 pp) (2014)

Fischer, W. J., S. T. Megeath, J. J. Tobin, L. Hartmann, A. M. Stutz, M. Kounkel, C. A. Poteet, B. Ali, M. Osorio, P. Manoj, I. Remming, T. Stanke and D. M. Watson: HOPS 136: An edge-on Orion protostar near the end of envelope infall. The Astrophysical Journal **781**, id. 123 (11 pp) (2014)

Flaherty, K. M., J. Muzerolle, S. J. Wolk, G. Rieke, R. Gutermuth, Z. Balog, W. Herbst, S. T. Megeath and E. Furlan: Connecting X-ray and infrared variability among young stellar objects:

Ruling out potential sources of dsk fluctuations. The Astrophysical Journal **793**, id. 2 (10 pp) (2014)

Fu, Q., J.-U. Pott, P. Diethard, F. Shen, C. Rao and X. Li: Experimental study on modified linear quadratic Gaussian control for adaptive optics. Applied Optics **53**, 1610-1619 (2014)

Fulvio, D., A. C. Brieva, S. H. Cuylle, H. Linnartz, C. Jäger and T. Henning: A straightforward method for Vacuum-Ultraviolet flux measurements: The case of the hydrogen discharge lamp and implications for solid-phase actinometry. Applied Physics Letters **105**, id. 4105 (4pp) (2014 online)

Furlan, E., S. T. Megeath, M. Osorio, A. M. Stutz, W. J. Fischer, B. Ali, T. Stanke, P. Manoj, J. D. Adams and J. J. Tobin: On the nature of the deeply embedded protostar OMC-2 FIR 4. The Astrophysical Journal **786**, id. 26 (15 pp) (2014)

Garufi, A., S. P. Quanz, H. M. Schmid, H. Avenhaus, E. Buenzli and S. Wolf: Shadows and cavities in protoplanetary disks: HD 163296, HD 141569A, and HD 150193A in polarized light. Astronomy and Astrophysics **568**, id. A40 (10 pp) (2014)

Gavilan, L., J. L. Lemaire, G. Vidali, T. Sabri and C. Jæger: The formation of molecular hydrogen on silicate dust analogs: The rotational distribution. The Astrophysical Journal **781**, id. 79 (13 pp) (2014)

Gerner, T., H. Beuther, D. Semenov, H. Linz, T. Vasyunina, S. Bihr, Y. L. Shirley and T. Henning: Chemical evolution in the early phases of massive star formation. I. Astronomy and Astrophysics **563**, id. A97 (31 pp) (2014)

Giannetti, A., F. Wyrowski, J. Brand, T. Csengeri, F. Fontani, C. M. Walmsley, Q. Nguyen Luong, H. Beuther, F. Schuller, R. Güsten and K. M. Menten: ATLASGAL-selected massive clumps in the inner Galaxy. I. CO depletion and isotopic ratios. Astronomy and Astrophysics **570**, id. A65 (55 pp) (2014)

Goodman, A. A., J. Alves, C. N. Beaumont, R. A. Benjamin, M. A. Borkin, A. Burkert, T. M. Dame, J. Jackson, J. Kauffmann, T. Robitaille and R. J. Smith: The bones of the Milky Way. The Astrophysical Journal **797**, id. 53 (13 pp) (2014)

Goto, M., T. R. Geballe, N. Indriolo, F. Yusef-Zadeh, T. Usuda, T. Henning and T. Oka: Infrared H_3^+ and CO studies of the Galactic core: GCIRS 3 and GCIRS 1W. The Astrophysical Journal **786**, id. 96 (15 pp) (2014)

Günther, H. M., A. M. Cody, K. R. Covey, L. A. Hillenbrand, P. Plavchan, K. Poppenhaeger, L. M. Rebull, J. R. Stauffer, S. J. Wolk, L. Allen, A. Bayo, R. A. Gutermuth, J. L. Hora, H. Y. A. Meng, M. Morales-Calderón, J. R. Parks and I. Song: YSOVAR: Mid-infrared variability in the star-forming region Lynds 1688. The Astronomical Journal **148**, id. 122 (20 pp) (2014)

Harvey, P. M., T. Henning, Y. Liu and S. Wolf: Herschel photometry of disks around low-mass stars in the R CrA cloud. The Astrophysical Journal **795**, id. 21 (6 pp) (2014)

Hayes, M., G. Östlin, F. Duval, A. Sandberg, L. Guaita, J. Melinder, A. Adamo, D. Schaerer, A. Verhamme, I. Orlitová, J. M. Mas-Hesse, J. M. Cannon, H. Atek, D. Kunth, P. Laursen, H. Otí-Floranes, S. Pardy, T. Rivera-Thorsen and E. C. Herenz: The Lyman Alpha Reference Sample. II. Hubble Space Telescope imaging results, integrated properties, and trends. The Astrophysical Journal **782**, id. 6 (22 pp) (2014)

Heays, A. N., R. Visser, R. Gredel, W. Ubachs, B. R. Lewis, S. T. Gibson and E. F. van Dishoeck: Isotope selective photodissociation of N_2 by the interstellar radiation field and cosmic rays. Astronomy and Astrophysics **562**, id. A61 (16 pp) (2014)

Helminiak, K. G., R. Brahm, M. Ratajczak, N. Espinoza, A. Jordán, M. Konacki and M. Rabus: Orbital and physical parameters of eclipsing binaries from the All-Sky Automated Survey catalogue. VI. AK Fornacis: a rare, bright K-type eclipsing binary. Astronomy and Astrophysics **567**, id. A64 (9 pp) (2014)

Howard, A. W., G. W. Marcy, D. A. Fischer, H. Isaacson, P. S. Muirhead, G. W. Henry, T. S.

Boyajian, K. von Braun, J. C. Becker, J. T. Wright and J. A. Johnson: The NASA-UC-UH ETA-Earth Program. IV. A Low-mass planet orbiting an M dwarf 3.6 PC from Earth. The Astrophysical Journal **794**, id. 51 (9 pp) (2014)

Itoh, Y., Y. Oasa, T. Kudo, N. Kusakabe, J. Hashimoto, L. Abe, W. Brandner, T. D. Brandt, J. C. Carson, S. Egner, M. Feldt, C. A. Grady, O. Guyon, Y. Hayano, M. Hayashi, S. S. Hayashi, T. Henning, K. W. Hodapp, M. Ishii, M. Iye, M. Janson, R. Kandori, G. R. Knapp, M. Kuzuhara, J. Kwon, T. Matsuo, M. W. McElwain, S. Miyama, J.-I. Morino, A. Moro-Martin, T. Nishimura, T.-S. Pyo, E. Serabyn, T. Suenaga, H. Suto, R. Suzuki, Y. H. Takahashi, N. Takato, H. Terada, C. Thalmann, D. Tomono, E. L. Turner, M. Watanabe, J. Wisniewski, T. Yamada, S. Mayama, T. Currie, H. Takami, T. Usuda and M. Tamura: Near-infrared polarimetry of the GG Tauri A binary system. Research in Astronomy and Astrophysics **14**, 1438-1446 (2014)

Janson, M., C. Bergfors, W. Brandner, M. Bonnefoy, J. Schlieder, R. Köhler, F. Hormuth, T. Henning and S. Hippler: Orbital monitoring of the AstraLux Large M-dwarf Multiplicity sample. The Astrophysical Journal Supplement Series **214**, id. 17 (21 pp) (2014)

Janson, M., C. Bergfors, W. Brandner, N. Kudryavtseva, F. Hormuth, S. Hippler and T. Henning: The AstraLux Multiplicity Survey: Extension to late M-dwarfs. The Astrophysical Journal **789**, id. 102 (19 pp) (2014)

Jiménez-Serra, I., P. Caselli, F. Fontani, J. C. Tan, J. D. Henshaw, J. Kainulainen and A. K. Hernandez: Gas kinematics and excitation in the filamentary IRDC G035.39-00.33. Monthly Notices of the Royal Astronomical Society **439**, 1996-2013 (2014)

Jin, S., C. Mordasini, V. Parmentier, R. van Boekel, T. Henning and J. Ji: Planetary population synthesis coupled with atmospheric escape: A statistical view of evaporation. The Astrophysical Journal **795**, id. 65 (22 pp) (2014)

Johnson, J. A., D. Huber, T. Boyajian, J. M. Brewer, T. R. White, K. von Braun, V. Maestro, D. Stello and T. Barclay: The physical parameters of the retired a star HD 185351. The Astrophysical Journal **794**, id. 15 (13 pp) (2014)

Johnston, K. G., H. Beuther, H. Linz, A. Schmiedeke, S. E. Ragan and T. Henning: The dynamics and star-forming potential of the massive Galactic centre cloud G0.253+0.016. Astronomy and Astrophysics **568**, id. A56 (19 pp) (2014)

Jordán, A., R. Brahm, G. Á. Bakos, D. Bayliss, K. Penev, J. D. Hartman, G. Zhou, L. Mancini, M. Mohler-Fischer, S. Ciceri, B. Sato, Z. Csubry, M. Rabus, V. Suc, N. Espinoza, W. Bhatti, M. d. V. Borro, L. Buchhave, B. Csák, T. Henning, B. Schmidt, T. G. Tan, R. W. Noyes, B. Béky, R. P. Butler, S. Shectman, J. Crane, I. Thompson, A. Williams, R. Martin, C. Contreras, J. Lázár, I. Papp and P. Sári: HATS-4b: A dense Hot Jupiter Transiting a Super Metal-rich G star. The Astronomical Journal **148**, id. 29 (12 pp) (2014)

Kainulainen, J., C. Federrath and T. Henning: Unfolding the laws of star formation: The density distribution of molecular clouds. Science **344**, 183-185 (2014)

Kannan, R., G. S. Stinson, A. V. Macciò, J. F. Hennawi, R. Woods, J. Wadsley, S. Shen, T. Robitaille, S. Cantalupo, T. R. Quinn and C. Christensen: Galaxy formation with local photoionization feedback - I. Methods. Monthly Notices of the Royal Astronomical Society **437**, 2882-2893 (2014)

Kimura, H., L. Kolokolova, A. Li, A. K. Inoue and C. Jäger: Cosmic Dust VI. Planetary and Space Science **100**, 1-5 (2014)

Klaas, U., K. Okumura, M. Ferlet, T. Müller, M. Sanchez-Portal, B. Altieri, D. Doyle and G. L. Pilbratt: Herschel out-of-field stray-light characterization. Experimental Astronomy **37**, 331-345 (2014)

Klahr, H. and A. Hubbard: Convective overstability in radially stratified accretion disks under thermal relaxation. The Astrophysical Journal **788**, id. 21 (8 pp) (2014)

Klassen, M., R. Kuiper, R. E. Pudritz, T. Peters, R. Banerjee and L. Buntemeyer: A general hybrid radiation transport scheme for star formation simulations on an adaptive grid. The Astrophysical Journal **797**, id. 4 (14 pp) (2014)

Kopytova, T. G., I. J. M. Crossfield, N. R. Deacon, W. Brandner, E. Buenzli, A. Bayo, J. E. Schlieder, E. Manjavacas, B. A. Biller and D. Kopon: Deep z-band observations of the coolest Y dwarf. The Astrophysical Journal **797**, id. 3 (4 pp) (2014)

Kóspál, Á., M. Mohler-Fischer, A. Sicilia-Aguilar, P. Ábrahám, M. Curé, T. Henning, C. Kiss, R. Launhardt, A. Moór and A. Müller: Radial velocity variations in the young eruptive star EX Lupi. Astronomy and Astrophysics **561**, id. A61 (12 pp) (2014)

Krasnokutski, S. A. and F. Huisken: Ultra-low-temperature reactions of C(3 P 0) atoms with benzene molecules in helium droplets. The Journal of Chemical Physics **141**, id. 214306 (5pp) (2014)

Krasnokutski, S. A. and F. Huisken: A simple and clean source of low-energy atomic carbon. Applied Physics Letters **105**, id.113506 (2014)

Krasnokutski, S. A., G. Rouillé, C. Jäger, F. Huisken, S. Zhukovska and T. Henning: Formation of silicon oxide grains at low temperature. The Astrophysical Journal **782**, id. 15 (10 pp) (2014)

Leipski, C., K. Meisenheimer, F. Walter, U. Klaas, H. Dannerbauer, G. De Rosa, X. Fan, M. Haas, O. Krause and H.-W. Rix: Spectral energy distributions of QSOs at z > 5: Common active galactic nucleus-heated dust and occasionally strong star-formation. The Astrophysical Journal **785**, id. 154 (22 pp) (2014)

Leurini, S., A. Gusdorf, F. Wyrowski, C. Codella, T. Csengeri, F. van der Tak, H. Beuther, D. R. Flower, C. Comito and P. Schilke: Water emission from the high-mass star-forming region IRAS 17233-3606. Astronomy and Astrophysics **564**, id. L11 (7 pp) (2014)

Lillo-Box, J., D. Barrado, T. Henning, L. Mancini, S. Ciceri, P. Figueira, N. C. Santos, J. Aceituno and S. Sánchez: Radial velocity confirmation of Kepler-91 b. Additional evidence of its planetary nature using the Calar Alto/CAFE instrument. Astronomy and Astrophysics **568**, id.L1 (4 pp) (2014)

Lillo-Box, J., D. Barrado, A. Moya, B. Montesinos, J. Montalbán, A. Bayo, M. Barbieri, C. Régulo, L. Mancini, H. Bouy and T. Henning: Kepler-91b: a planet at the end of its life. Planet and giant host star properties via light-curve variations. Astronomy and Astrophysics **562**, id.A109 (19 pp) (2014)

López-Morales, M., A. H. M. J. Triaud, F. Rodler, X. Dumusque, L. A. Buchhave, A. Harutyunyan, S. Hoyer, R. Alonso, M. Gillon, N. A. Kaib, D. W. Latham, C. Lovis, F. Pepe, D. Queloz, S. N. Raymond, D. Ségransan, I. P. Waldmann and S. Udry: Rossiter-McLaughlin observations of 55 Cnc e. The Astrophysical Journal Letters **792**, id. L31 (6 pp) (2014)

Maire, A.-L., A. Boccaletti, J. Rameau, G. Chauvin, A.-M. Lagrange, M. Bonnefoy, S. Desidera, M. Sylvestre, P. Baudoz, R. Galicher and D. Mouillet: Search for cool giant exoplanets around young and nearby stars. VLT/NaCo near-infrared phase-coronagraphic and differential imaging. Astronomy and Astrophysics **566**, id. A126 (19 pp) (2014)

Malygin, M. G., R. Kuiper, H. Klahr, C. P. Dullemond and T. Henning: Mean gas opacity for circumstellar environments and equilibrium temperature degeneracy. Astronomy and Astrophysics **568**, id. A91 (8 pp) (2014)

Mancini, L., J. Southworth, S. Ciceri, S. Calchi Novati, M. Dominik, T. Henning, U. G. Jørgensen, H. Korhonen, N. Nikolov, K. A. Alsubai, V. Bozza, D. M. Bramich, G. D'Ago, R. Figuera Jaimes, P. Galianni, S.-H. Gu, K. Harpsøe, T. C. Hinse, M. Hundertmark, D. Juncher, N. Kains, A. Popovas, M. Rabus, S. Rahvar, J. Skottfelt, C. Snodgrass, R. Street, J. Surdej, Y. Tsapras, C. Vilela, X.-B. Wang and O. Wertz: Physical properties of the WASP-67 planetary system from multi-colour photometry. Astronomy and Astrophysics **568**, id. A127 (9 pp) (2014)

Mancini, L., J. Southworth, S. Ciceri, M. Dominik, T. Henning, U. G. Jørgensen, A. F. Lanza, M. Rabus, C. Snodgrass, C. Vilela, K. A. Alsubai, V. Bozza, D. M. Bramich, S. Calchi Novati, G. D'Ago, R. Figuera Jaimes, P. Galianni, S.-H. Gu, K. Harpsøe, T. Hinse, M. Hundertmark, D. Juncher, N. Kains, H. Korhonen, A. Popovas, S. Rahvar, J. Skottfelt, R. Street, J. Surdej, Y.

Tsapras, X.-B. Wang and O. Wertz: Physical properties and transmission spectrum of the WASP-80 planetary system from multi-colour photometry. Astronomy and Astrophysics **562**, id. A126 (9 pp) (2014)

Mancini, L., J. Southworth, S. Ciceri, J. Tregloan-Reed, I. Crossfield, N. Nikolov, I. Bruni, R. Zambelli and T. Henning: Physical properties, star-spot activity, orbital obliquity and transmission spectrum of the Qatar-2 planetary system from multicolour photometry. Monthly Notices of the Royal Astronomical Society **443**, 2391-2409 (2014)

Manjavacas, E., M. Bonnefoy, J. E. Schlieder, F. Allard, P. Rojo, B. Goldman, G. Chauvin, D. Homeier, N. Lodieu and T. Henning: New constraints on the formation and settling of dust in the atmospheres of young M and L dwarfs. Astronomy and Astrophysics **564**, id. A55 (21 pp) (2014)

Mann, A. W., N. R. Deacon, E. Gaidos, M. Ansdell, J. M. Brewer, M. C. Liu, E. A. Magnier and K. M. Aller: Prospecting in ultracool dwarfs: Measuring the metallicities of mid- and late-M dwarfs. The Astronomical Journal **147**, 160 (2014)

Marleau, G.-D. and A. Cumming: Constraining the initial entropy of directly detected exoplanets. Monthly Notices of the Royal Astronomical Society **437**, 1378-1399 (2014)

Matsuura, M., J. Bernard-Salas, T. Lloyd Evans, K. M. Volk, B. J. Hrivnak, G. C. Sloan, Y.-H. Chu, R. Gruendl, K. E. Kraemer, E. Peeters, R. Szczerba, P. R. Wood, A. A. Zijlstra, S. Hony, Y. Ita, D. Kamath, E. Lagadec, Q. A. Parker, W. A. Reid, T. Shimonishi, H. Van Winckel, P. M. Woods, F. Kemper, M. Meixner, M. Otsuka, R. Sahai, B. A. Sargent, J. L. Hora and I. McDonald: Spitzer Space Telescope spectra of post-AGB stars in the Large Magellanic Cloud - polycyclic aromatic hydrocarbons at low metallicities. Monthly Notices of the Royal Astronomical Society **439**, 1472-1493 (2014)

Maurri, L., F. Bacciotti, L. Podio, J. Eislöffel, T. P. Ray, R. Mundt, U. Locatelli and D. Coffey: Physical properties of the jet from DG Tauri on sub-arcsecond scales with HST/STIS. Astronomy and Astrophysics **565**, id. A110 (15 pp) (2014)

Menu, J., R. van Boekel, T. Henning, C. J. Chandler, H. Linz, M. Benisty, S. Lacour, M. Min, C. Waelkens, S. M. Andrews, N. Calvet, J. M. Carpenter, S. A. Corder, A. T. Deller, J. S. Greaves, R. J. Harris, A. Isella, W. Kwon, J. Lazio, J.-B. Le Bouquin, F. Ménard, L. G. Mundy, L. M. Pérez, L. Ricci, A. I. Sargent, S. Storm, L. Testi and D. J. Wilner: On the structure of the transition disk around TW Hydrae. Astronomy and Astrophysics **564**, id. A93 (22 pp) (2014)

Miguel, Y. and L. Kaltenegger: Exploring atmospheres of hot mini-Neptunes and extrasolar giant planets orbiting different stars with application to HD 97658b, WASP-12b, CoRoT-2b, XO-1b, and HD 189733b. The Astrophysical Journal **780**, id. 166 (13 pp) (2014)

Moór, A., T. G. Müller, C. Kiss, Z. Balog, N. Billot and G. Marton: PACS photometer calibration block analysis. Experimental Astronomy **37**, 225-238 (2014)

Mordasini, C.: Grain opacity and the bulk composition of extrasolar planets. II. An analytical model for grain opacity in protoplanetary atmospheres. Astronomy and Astrophysics **572**, id. A118 (34 pp) (2014)

Mordasini, C., H. Klahr, Y. Alibert, N. Miller and T. Henning: Grain opacity and the bulk composition of extrasolar planets. I. Results from scaling the ISM opacity. Astronomy and Astrophysics **566**, id. A141 (22 pp) (2014)

Motte, F., Q. Nguyên Luong, N. Schneider, F. Heitsch, S. Glover, P. Carlhoff, T. Hill, S. Bontemps, P. Schilke, F. Louvet, M. Hennemann, P. Didelon and H. Beuther: The formation of the W43 complex: constraining its atomic-to-molecular transition and searching for colliding clouds. Astronomy and Astrophysics **571**, id. A32 (12 pp) (2014)

Müller, A., J.-U. Pott, A. Mérand, R. Abuter, F. Delplancke-Ströbele, T. Henning, R. Köhler, C. Leinert, S. Morel, T. Phan Duc, E. Pozna, A. Ramirez, J. Sahlmann and C. Schmid: Mid-infrared interferometry with K band fringe-tracking. I. The VLTI MIDI+FSU experiment. Astronomy and Astrophysics **567**, id. A98 (11 pp) (2014)

Müller, T., Z. Balog, M. Nielbock, T. Lim, D. Teyssier, M. Olberg, U. Klaas, H. Linz, B. Altieri, C.

Pearson, G. Bendo and E. Vilenius: Herschel celestial calibration sources. Four large main-belt asteroids as prime flux calibrators for the far-IR/sub-mm range. Experimental Astronomy **37**, 253-330 (2014)

Panic, O., T. Ratzka, G. D. Mulders, C. Dominik, R. van Boekel, T. Henning, W. Jaffe and M. Min: Resolving HD 100546 disc in the mid-infrared: Small inner disc and asymmetry near the gap. Astronomy and Astrophysics **562**, id.A101 (12 pp) (2014)

Pardy, S. A., J. M. Cannon, G. Östlin, M. Hayes, T. Rivera-Thorsen, A. Sandberg, A. Adamo, E. Freeland, E. C. Herenz, L. Guaita, D. Kunth, P. Laursen, J. M. Mas-Hesse, J. Melinder, I. Orlitová, H. Otí-Floranes, J. Puschnig, D. Schaerer and A. Verhamme: The Lyman Alpha Reference Sample. III. Properties of the neutral ISM from GBT and VLA observations. The Astrophysical Journal **794**, id. 101 (19 pp) (2014)

Peter, D., W. Domainko, D. A. Sanchez, A. van der Wel and W. Gässler: The host galaxy and Fermi-LAT counterpart of HESS J1943+213. Astronomy and Astrophysics **571**, id. A41 (7 pp) (2014)

Pinilla, P., M. Benisty, T. Birnstiel, L. Ricci, A. Isella, A. Natta, C. P. Dullemond, L. H. Quiroga-Nuñez, T. Henning and L. Testi: Millimetre spectral indices of transition disks and their relation to the cavity radius. Astronomy and Astrophysics **564**, id. A51 (10 pp) (2014)

Ragan, S. E., T. Henning, J. Tackenberg, H. Beuther, K. G. Johnston, J. Kainulainen and H. Linz: Giant molecular filaments in the Milky Way. Astronomy and Astrophysics **568**, id. A73 (22 pp) (2014)

Rajpurohit, A. S., C. Reylé, F. Allard, R.-D. Scholz, D. Homeier, M. Schultheis and A. Bayo: High-resolution spectroscopic atlas of M subdwarfs. Effective temperature and metallicity. Astronomy and Astrophysics **564**, id. A90 (14 pp) (2014)

Rauer, H., C. Catala, C. Aerts, T. Appourchaux, W. Benz, A. Brandeker, J. Christensen-Dalsgaard, M. Deleuil, L. Gizon, M.-J. Goupil, M. Güdel, E. Janot-Pacheco, M. Mas-Hesse, I. Pagano, G. Piotto, D. Pollacco, C. Santos, A. Smith, J.-C. Suárez, R. Szabó, S. Udry, V. Adibekyan, Y. Alibert, J.-M. Almenara, P. Amaro-Seoane, M. A.-v. Eiff, M. Asplund, E. Antonello, S. Barnes, F. Baudin, K. Belkacem, M. Bergemann, G. Bihain, A. C. Birch, X. Bonfils, I. Boisse, A. S. Bonomo, F. Borsa, I. M. Brandão, E. Brocato, S. Brun, M. Burleigh, R. Burston, J. Cabrera, S. Cassisi, W. Chaplin, S. Charpinet, C. Chiappini, R. P. Church, S. Csizmadia, M. Cunha, M. Damasso, M. B. Davies, H. J. Deeg, R. F. Díaz, S. Dreizler, C. Dreyer, P. Eggenberger, D. Ehrenreich, P. Eigmüller, A. Erikson, R. Farmer, S. Feltzing, F. de Oliveira Fialho, P. Figueira, T. Forveille, M. Fridlund, R. A. García, P. Giommi, G. Giuffrida, M. Godolt, J. Gomes da Silva, T. Granzer, J. L. Grenfell, A. Grotsch-Noels, E. Günther, C. A. Haswell, A. P. Hatzes, G. Hébrard, S. Hekker, R. Helled, K. Heng, J. M. Jenkins, A. Johansen, M. L. Khodachenko, K. G. Kislyakova, W. Kley, U. Kolb, N. Krivova, F. Kupka, H. Lammer, A. F. Lanza, Y. Lebreton, D. Magrin, P. Marcos-Arenal, P. M. Marrese, J. P. Marques, J. Martins, S. Mathis, S. Mathur, S. Messina, A. Miglio, J. Montalban, M. Montalto, M. J. P. F. G. Monteiro, H. Moradi, E. Moravveji, C. Mordasini, T. Morel, A. Mortier, V. Nascimbeni, R. P. Nelson, M. B. Nielsen, L. Noack, A. J. Norton, A. Ofir, M. Oshagh, R.-M. Ouazzani, P. Pápics, V. C. Parro, P. Petit, B. Plez, E. Poretti, A. Quirrenbach, R. Ragazzoni, G. Raimondo, M. Rainer, D. R. Reese, R. Redmer, S. Reffert, B. Rojas-Ayala, I. W. Roxburgh, S. Salmon, A. Santerne, J. Schneider, J. Schou, S. Schuh, H. Schunker, A. Silva-Valio, R. Silvotti, I. Skillen, I. Snellen, F. Sohl, S. G. Sousa, A. Sozzetti, D. Stello, K. G. Strassmeier, M. Svanda, G. M. Szabó, A. Tkachenko, D. Valencia, V. Van Grootel, S. D. Vauclair, P. Ventura, F. W. Wagner, N. A. Walton, J. Weingrill, S. C. Werner, P. J. Wheatley and K. Zwintz: The PLATO 2.0 mission. Experimental Astronomy **38**, 249-330 (2014)

Rebull, L. M., A. M. Cody, K. R. Covey, H. M. Günther, L. A. Hillenbrand, P. Plavchan, K. Poppenhaeger, J. R. Stauffer, S. J. Wolk, R. Gutermuth, M. Morales-Calderón, I. Song, D. Barrado, A. Bayo, D. James, J. L. Hora, F. J. Vrba, C. Alves de Oliveira, J. Bouvier, S. J. Carey, J. M. Carpenter, F. Favata, K. Flaherty, J. Forbrich, J. Hernandez, M. J. McCaughrean, S. T. Megeath, G. Micela, H. A. Smith, S. Terebey, N. Turner, L. Allen, D. Ardila, H. Bouy and S. Guieu: Young Stellar Object VARiability (YSOVAR): Long timescale variations in the mid-infrared. The Astronomical Journal **148**, id. 92 (46 pp) (2014)

Rémy-Ruyer, A., S. C. Madden, F. Galliano, M. Galametz, T. T. Takeuchi, R. S. Asano, S. Zhukovska, V. Lebouteiller, D. Cormier, A. Jones, M. Bocchio, M. Baes, G. J. Bendo, M.

Boquien, A. Boselli, I. DeLooze, V. Doublier-Pritchard, T. Hughes, O. L. Karczewski and L. Spinoglio: Gas-to-dust mass ratios in local galaxies over a 2 dex metallicity range. Astronomy and Astrophysics **563**, id. A31 (22 pp) (2014)

Roman-Duval, J., K. D. Gordon, M. Meixner, C. Bot, A. Bolatto, A. Hughes, T. Wong, B. Babler, J.-P. Bernard, G. C. Clayton, Y. Fukui, M. Galametz, F. Galliano, S. Glover, S. Hony, F. Israel, K. Jameson, V. Lebouteiller, M.-Y. Lee, A. Li, S. Madden, K. Misselt, E. Montiel, K. Okumura, T. Onishi, P. Panuzzo, W. Reach, A. Remy-Ruyer, T. Robitaille, M. Rubio, M. Sauvage, J. Seale, M. Sewilo, L. Staveley-Smith and S. Zhukovska: Dust and gas in the Magellanic Clouds from the HERITAGE Herschel Key Project. II. Gas-to-dust ratio variations across interstellar medium phases. The Astrophysical Journal **797**, id. 86 (24 pp) (2014)

Rouille, G., C. Jaeger, S. A. Krasnokutski, M. Krebsz and T. Henning: Cold condensation of dust in the ISM. Faraday Discussions **168**, 449-460 (2014)

Ruge, J. P., S. Wolf, A. L. Uribe and H. H. Klahr: Planet-induced disk structures: A comparison between (sub)mm and infrared radiation. Astronomy and Astrophysics **572**, id. L2 (4 pp) (2014)

Ryon, J. E., A. Adamo, N. Bastian, L. J. Smith, J. S. Gallagher, III, I. S. Konstantopoulos, S. Larsen, E. Silva-Villa and E. Zackrisson: The Snapshot Hubble U-Band Cluster Survey (SHUCS). II. The star cluster population of NGC 2997. The Astronomical Journal **148**, id. 33 (12 pp) (2014)

Sabri, T., L. Gavilan, C. Jäger, J. L. Lemaire, G. Vidali, H. Mutschke and T. Henning: Interstellar silicate analogs for grain-surface reaction experiments: Gas-phase condensation and characterization of the silicate dust grains. The Astrophysical Journal **780**, id. 180 (8 pp) (2014)

Sadavoy, S. I., J. Di Francesco, P. André, S. Pezzuto, J.-P. Bernard, A. Maury, A. Men'shchikov, F. Motte, Nguy, tilde, Q. ên-Lu'o'ng, N. Schneider, D. Arzoumanian, M. Benedettini, S. Bontemps, D. Elia, M. Hennemann, T. Hill, V. Könyves, F. Louvet, N. Peretto, A. Roy and G. J. White: Class 0 protostars in the Perseus molecular cloud: A correlation between the youngest protostars and the dense gas distribution. The Astrophysical Journal Letters **787**, id. L18 (6 pp) (2014)

Sana, H., J.-B. Le Bouquin, S. Lacour, J.-P. Berger, G. Duvert, L. Gauchet, B. Norris, J. Olofsson, D. Pickel, G. Zins, O. Absil, A. de Koter, K. Kratter, O. Schnurr and H. Zinnecker: Southern massive stars at high angular resolution: Observational campaign and companion Detection. The Astrophysical Journal Supplement Series **215**, 15 (2014)

Sánchez-Portal, M., A. Marston, B. Altieri, H. Aussel, H. Feuchtgruber, U. Klaas, H. Linz, D. Lutz, B. Merín, T. Müller, M. Nielbock, M. Oort, G. Pilbratt, M. Schmidt, C. Stephenson and M. Tuttlebee: The pointing system of the Herschel space observatory. Description, calibration, performance and improvements. Experimental Astronomy **37**, 453-479 (2014)

Sauvage, M., K. Okumura, U. Klaas, T. Müller, A. Moór, A. Poglitsch, H. Feuchtgruber and L. Duband: Operations and performance of the PACS instrument ^{3}He sorption cooler on board of the Herschel space observatory. Experimental Astronomy **37**, 397-431 (2014)

Schady, P., S. Savaglio, T. Müller, T. Krühler, T. Dwelly, E. Palazzi, L. K. Hunt, J. Greiner, H. Linz, M. J. Michalowski, D. Pierini, S. Piranomonte, S. D. Vergani and W. K. Gear: Herschel observations of gamma-ray burst host galaxies: implications for the topology of the dusty interstellar medium. Astronomy and Astrophysics **570**, id.A52 (13 pp) (2014)

Schaefer, G. H., T. T. Brummelaar, D. R. Gies, C. D. Farrington, B. Kloppenborg, O. Chesneau, J. D. Monnier, S. T. Ridgway, N. Scott, I. Tallon-Bosc, H. A. McAlister, T. Boyajian, V. Maestro, D. Mourard, A. Meilland, N. Nardetto, P. Stee, J. Sturmann, N. Vargas, F. Baron, M. Ireland, E. K. Baines, X. Che, J. Jones, N. D. Richardson, R. M. Roettenbacher, L. Sturmann, N. H. Turner, P. Tuthill, G. van Belle, K. von Braun, R. T. Zavala, D. P. K. Banerjee, N. M. Ashok, V. Joshi, J. Becker and P. S. Muirhead: The expanding fireball of Nova Delphini 2013. Nature **515**, 234-236 (2014)

Schlieder, J. E., M. Bonnefoy, T. M. Herbst, S. Lépine, E. Berger, T. Henning, A. Skemer, G. Chauvin, E. Rice, B. Biller, J. H. V. Girard, A.-M. Lagrange, P. Hinz, D. Defrère, C. Bergfors, W.

Brandner, S. Lacour, M. Skrutskie and J. Leisenring: Characterization of the benchmark binary NLTT 33370. The Astrophysical Journal **783**, id. 27 (15 pp) (2014)

Schmalzl, M., R. Launhardt, A. M. Stutz, H. Linz, T. L. Bourke, H. Beuther, T. Henning, O. Krause, M. Nielbock and A. Schmiedeke: The Earliest Phases of Star formation (EPoS). Temperature, density, and kinematic structure of the star-forming core CB 17. Astronomy and Astrophysics **569**, id. A7 (11 pp) (2014)

Schmalzl, M., R. Visser, C. Walsh, T. Albertsson, E. F. van Dishoeck, L. E. Kristensen and J. C. Mottram: Water in low-mass star-forming regions with Herschel. The link between water gas and ice in protostellar envelopes. Astronomy and Astrophysics **572**, id. A81 (19 pp) (2014)

Schnee, S., B. Mason, J. Di Francesco, R. Friesen, D. Li, S. Sadavoy and T. Stanke: Evidence for large grains in the star-forming filament OMC 2/3. Monthly Notices of the Royal Astronomical Society **444**, 2303-2312 (2014)

Schneider, G., C. A. Grady, D. C. Hines, C. C. Stark, J. H. Debes, J. Carson, M. J. Kuchner, M. D. Perrin, A. J. Weinberger, J. P. Wisniewski, M. D. Silverstone, H. Jang-Condell, T. Henning, B. E. Woodgate, E. Serabyn, A. Moro-Martin, M. Tamura, P. M. Hinz and T. J. Rodigas: Probing for exoplanets hiding in dusty debris disks: Disk imaging, characterization, and exploration with HST/STIS multi-roll coronagraphy. The Astronomical Journal **148**, id. 59 (50 pp) (2014)

Shi, Y., G. H. Rieke, P. M. Ogle, K. Y. L. Su and Z. Balog: Infrared spectra and photometry of complete samples of Palomar-Green and two micron All Sky Survey quasars. The Astrophysical Journal Supplement Series **214**, id. 23 (17 pp) (2014)

Sicilia-Aguilar, A., V. Roccatagliata, K. Getman, T. Henning, B. Merín, C. Eiroa, P. Rivière-Marichalar and T. Currie: A Herschel view of IC 1396 A: Unveiling the different sequences of star formation. Astronomy and Astrophysics **562**, id. A131 (9 pp) (2014)

Silva-Villa, E., A. Adamo, N. Bastian, M. Fouesneau and E. Zackrisson: The age distribution of stellar clusters in M83. Monthly Notices of the Royal Astronomical Society **440**, L116-L120 (2014)

Smiljanic, R., A. J. Korn, M. Bergemann, A. Frasca, L. Magrini, T. Masseron, E. Pancino, G. Ruchti, I. San Roman, L. Sbordone, S. G. Sousa, H. Tabernero, G. Tautvaisiene, M. Valentini, M. Weber, C. C. Worley, V. Z. Adibekyan, C. Allende Prieto, G. Barisevicius, K. Biazzo, S. Blanco-Cuaresma, P. Bonifacio, A. Bragaglia, E. Caffau, T. Cantat-Gaudin, Y. Chorniy, P. de Laverny, E. Delgado-Mena, P. Donati, S. Duffau, E. Franciosini, E. Friel, D. Geisler, J. I. González Hernández, P. Gruyters, G. Guiglion, C. J. Hansen, U. Heiter, V. Hill, H. R. Jacobson, P. Jofre, H. Jönsson, A. C. Lanzafame, C. Lardo, H.-G. Ludwig, E. Maiorca, S. Mikolaitis, D. Montes, T. Morel, A. Mucciarelli, C. Muñoz, T. Nordlander, L. Pasquini, E. Puzeras, A. Recio-Blanco, N. Ryde, G. Sacco, N. C. Santos, A. M. Serenelli, R. Sordo, C. Soubiran, L. Spina, M. Steffen, A. Vallenari, S. Van Eck, S. Villanova, G. Gilmore, S. Randich, M. Asplund, J. Binney, J. Drew, S. Feltzing, A. Ferguson, R. Jeffries, G. Micela, I. Negueruela, T. Prusti, H.-W. Rix, E. Alfaro, C. Babusiaux, T. Bensby, R. Blomme, E. Flaccomio, P. François, M. Irwin, S. Koposov, N. Walton, A. Bayo, G. Carraro, M. T. Costado, F. Damiani, B. Edvardsson, A. Hourihane, R. Jackson, J. Lewis, K. Lind, G. Marconi, C. Martayan, L. Monaco, L. Morbidelli, L. Prisinzano and S. Zaggia: The Gaia-ESO Survey: The analysis of high-resolution UVES spectra of FGK-type stars. Astronomy and Astrophysics **570**, id. A122 (38 pp) (2014)

Southworth, J., T. C. Hinse, M. Burgdorf, S. Calchi Novati, M. Dominik, P. Galianni, T. Gerner, E. Giannini, S.-H. Gu, M. Hundertmark, U. G. Jørgensen, D. Juncher, E. Kerins, L. Mancini, M. Rabus, D. Ricci, S. Schäfer, J. Skottfelt, J. Tregloan-Reed, X.-B. Wang, O. Wertz, K. A. Alsubai, J. M. Andersen, V. Bozza, D. M. Bramich, P. Browne, S. Ciceri, G. D'Ago, Y. Damerdji, C. Diehl, P. Dodds, A. Elyiv, X.-S. Fang, F. Finet, R. Figuera Jaimes, S. Hardis, K. Harpsøe, J. Jessen-Hansen, N. Kains, H. Kjeldsen, H. Korhonen, C. Liebig, M. N. Lund, M. Lundkvist, M. Mathiasen, M. T. Penny, A. Popovas, S. Prof., S. Rahvar, K. Sahu, G. Scarpetta, R. W. Schmidt, F. Schönebeck, C. Snodgrass, R. A. Street, J. Surdej, Y. Tsapras and C. Vilela: High-precision photometry by telescope defocussing - VI. WASP-24, WASP-25 and WASP-26. Monthly Notices of the Royal Astronomical Society **444**, 776-789 (2014)

Steinacker, J., M. Andersen, W.-F. Thi and A. Bacmann: etecting scattered light from low-mass molecular cores at 3.6 µm. Impact of global effects on the observation of coreshine. Astronomy and Astrophysics **563**, id. A106 (10 pp) (2014)

Steinacker, J., C. W. Ormel, M. Andersen and A. Bacmann: Coreshine in L1506C - Evidence for a primitive big-grain component or indication for a turbulent core history? Astronomy and Astrophysics **564**, id. A96 (6 pp) (2014)

Stolte, A., B. Hußmann, M. R. Morris, A. M. Ghez, W. Brandner, J. R. Lu, W. I. Clarkson, M. Habibi and K. Matthews: The orbital motion of the Quintuplet cluster---A common origin for the arches and Quintuplet clusters? The Astrophysical Journal **789**, id. 115 (20 pp) (2014)

Tackenberg, J., H. Beuther, T. Henning, H. Linz, T. Sakai, S. E. Ragan, O. Krause, M. Nielbock, M. Hennemann, J. Pitann and A. Schmiedeke: Kinematic structure of massive star-forming regions. I. Accretion along filaments. Astronomy and Astrophysics **565**, id. A101 (25 pp) (2014)

Takami, M., Y. Hasegawa, T. Muto, P.-G. Gu, R. Dong, J. L. Karr, J. Hashimoto, N. Kusakabe, E. Chapillon, Y.-W. Tang, Y. Itoh, J. Carson, K. B. Follette, S. Mayama, M. Sitko, M. Janson, C. A. Grady, T. Kudo, E. Akiyama, J. Kwon, Y. Takahashi, T. Suenaga, L. Abe, W. Brandner, T. D. Brandt, T. Currie, S. E. Egner, M. Feldt, O. Guyon, Y. Hayano, M. Hayashi, S. Hayashi, T. Henning, K. W. Hodapp, M. Honda, M. Ishii, M. Iye, R. Kandori, G. R. Knapp, M. Kuzuhara, M. W. McElwain, T. Matsuo, S. Miyama, J.-I. Morino, A. Moro-Martin, T. Nishimura, T.-S. Pyo, E. Serabyn, H. Suto, R. Suzuki, N. Takato, H. Terada, C. Thalmann, D. Tomono, E. L. Turner, J. P. Wisniewski, M. Watanabe, T. Yamada, H. Takami, T. Usuda and M. Tamura: Surface geometry of protoplanetary disks inferred from near-infrared imaging polarimetry. The Astrophysical Journal **795**, id. 71 (21 pp) (2014)

Thalmann, C., S. Desidera, M. Bonavita, M. Janson, T. Usuda, T. Henning, R. Köhler, J. Carson, A. Boccaletti, C. Bergfors, W. Brandner, M. Feldt, M. Goto, H. Klahr, F. Marzari and C. Mordasini: SPOTS: The Search for Planets Orbiting Two Stars. I. Survey description and first observations. Astronomy and Astrophysics **572**, id. A91 (12 pp) (2014)

Thalmann, C., G. D. Mulders, K. Hodapp, M. Janson, C. A. Grady, M. Min, M. de Juan Ovelar, J. Carson, T. Brandt, M. Bonnefoy, M. W. McElwain, J. Leisenring, C. Dominik, T. Henning and M. Tamura: The architecture of the LkCa 15 transitional disk revealed by high-contrast imaging. Astronomy and Astrophysics **566**, id. A51 (23 pp) (2014)

Thilliez, E., S. T. Maddison, A. Hughes and T. Wong: Tidal stability of giant molecular clouds in the Large Magellanic Cloud. Publications of the Astronomical Society of Australia **31**, id.e003 (14 pp) (2014 online)

Tóth, L. V., G. Marton, S. Zahorecz, L. G. Balázs, M. Ueno, M. Tamura, A. Kawamura, Z. T. Kiss and Y. Kitamura: The AKARI Far-Infrared Surveyor young stellar object catalog. Publications of the Astronomical Society of Japan **66**, id.17 (13 pp) (2014)

Townsley, L. K., P. S. Broos, G. P. Garmire, J. Bouwman, M. S. Povich, E. D. Feigelson, K. V. Getman and M. A. Kuhn: The massive star-forming regions Omnibus X-Ray Catalog. The Astrophysical Journal Supplement Series **213**, id. 1 (25 pp) (2014)

Tsapras, Y., J.-Y. Choi, R. A. Street, C. Han, V. Bozza, A. Gould, M. Dominik, J.-P. Beaulieu, A. Udalski, U. G. Jørgensen, T. Sumi, D. M. Bramich, P. Browne, K. Horne, M. Hundertmark, S. Ipatov, N. Kains, C. Snodgrass, I. A. Steele, R. Collaboration, K. A. Alsubai, J. M. Andersen, S. Calchi Novati, Y. Damerdji, C. Diehl, A. Elyiv, E. Giannini, S. Hardis, K. Harpsøe, T. C. Hinse, D. Juncher, E. Kerins, H. Korhonen, C. Liebig, L. Mancini, M. Mathiasen, M. T. Penny, M. Rabus, S. Rahvar, G. Scarpetta, J. Skottfelt, J. Southworth, J. Surdej, J. Tregloan-Reed, C. Vilela, J. Wambsganss, T. M. Collaboration, J. Skowron, R. Poleski, S. Kozlowski, L. Wyrzykowski, M. K. Szymanski, M. Kubiak, P. Pietrukowicz, G. Pietrzynski, I. Soszynski, K. Ulaczyk, T. O. Collaboration, M. D. Albrow, E. Bachelet, R. Barry, V. Batista, A. Bhattacharya, S. Brillant, J. A. R. Caldwell, A. Cassan, A. Cole, E. Corrales, C. Coutures, S. Dieters, D. Dominis Prester, J. Donatowicz, P. Fouqué, J. Greenhill, S. R. Kane, D. Kubas, J.-B. Marquette, J. Menzies, C. Père, K. R. Pollard, M. Zub, T. P. Collaboration, G. Christie, D. L. DePoy, S. Dong, J. Drummond, B. S. Gaudi, C. B. Henderson, K. H. Hwang, Y. K. Jung, A. Kavka, J.-R. Koo, C.-U. Lee, D. Maoz, L. A. G. Monard, T. Natusch, H. Ngan, H. Park, R. W. Pogge, I. Porritt, I.-G. Shin, Y. Shvartzvald, T. G. Tan, J. C. Yee, T. m. Collaboration, F. Abe, D. P. Bennett, I. A. Bond, C. S. Botzler, M. Freeman, A. Fukui, D. Fukunaga, Y. Itow, N. Koshimoto, C. H. Ling, K. Masuda, Y. Matsubara, Y. Muraki, S. Namba, K. Ohnishi, N. J. Rattenbury, T. Saito, D. J. Sullivan, W. L. Sweatman, D. Suzuki, P. J. Tristram, N. Tsurumi, K. Wada, N. Yamai, P. C. M.

Yock, A. Yonehara and T. M. Collaboration: A Super-Jupiter orbiting a late-type star: A refined analysis of microlensing event OGLE-2012-BLG-0406. The Astrophysical Journal **782**, id. 48 (9 pp) (2014)

Tsukagoshi, T., M. Momose, J. Hashimoto, T. Kudo, S. Andrews, M. Saito, Y. Kitamura, N. Ohashi, D. Wilner, R. Kawabe, L. Abe, E. Akiyama, W. Brandner, T. D. Brandt, J. Carson, T. Currie, S. E. Egner, M. Goto, C. Grady, O. Guyon, Y. Hayano, M. Hayashi, S. Hayashi, T. Henning, K. W. Hodapp, M. Ishii, M. Iye, M. Janson, R. Kandori, G. R. Knapp, N. Kusakabe, M. Kuzuhara, J. Kwon, M. McElwain, T. Matsuo, S. Mayama, S. Miyama, J.-i. Morino, A. Moro-Martín, T. Nishimura, T.-S. Pyo, E. Serabyn, T. Suenaga, H. Suto, R. Suzuki, Y. Takahashi, H. Takami, M. Takami, N. Takato, H. Terada, C. Thalmann, D. Tomono, E. L. Turner, T. Usuda, M. Watanabe, J. P. Wisniewski, T. Yamada and M. Tamura: High-resolution submillimeter and near-infrared studies of the transition disk around Sz 91. The Astrophysical Journal **783**, id. 90 (10 pp) (2014)

Turner, N. J., M. Benisty, C. P. Dullemond and S. Hirose: Herbig stars' near-infrared excess: An origin in the protostellar disk's magnetically supported Atmosphere. The Astrophysical Journal **780**, id. 42 (9 pp) (2014)

Urquhart, J. S., T. Csengeri, F. Wyrowski, F. Schuller, S. Bontemps, L. Bronfman, K. M. Menten, C. M. Walmsley, Y. Contreras, H. Beuther, M. Wienen and H. Linz: ATLASGAL - Complete compact source catalogue: 280°568, id. A41 (4 pp) (2014)

Vasyunina, T., A. I. Vasyunin, E. Herbst, H. Linz, M. Voronkov, T. Britton, I. Zinchenko and F. Schuller: Organic species in infrared dark clouds. The Astrophysical Journal **780**, id. 85 (19 pp) (2014)

Verbeek, K., P. J. Groot, S. Scaringi, J. Casares, J. M. Corral-Santana, N. Deacon, J. E. Drew, B. T. Gänsicke, E. González-Solares, R. Greimel, U. Heber, R. Napiwotzki, R. H. Østensen, D. Steeghs, N. J. Wright and A. Zijlstra: Ultraviolet-excess sources with a red/infrared counterpart: low-mass companions, debris discs and QSO selection. Monthly Notices of the Royal Astronomical Society **438**, 2-13 (2014)

von Braun, K., T. S. Boyajian, G. T. van Belle, S. R. Kane, J. Jones, C. Farrington, G. Schaefer, N. Vargas, N. Scott, T. A. ten Brummelaar, M. Kephart, D. R. Gies, D. R. Ciardi, M. López-Morales, C. Mazingue, H. A. McAlister, S. Ridgway, P. J. Goldfinger, N. H. Turner and L. Sturmann: Stellar diameters and temperatures - V. 11 newly characterized exoplanet host stars. Monthly Notices of the Royal Astronomical Society **438**, 2413-2425 (2014)

Wang, K., Q. Zhang, L. Testi, F. v. d. Tak, Y. Wu, H. Zhang, T. Pillai, F. Wyrowski, S. Carey, S. E. Ragan and T. Henning: Hierarchical fragmentation and differential star formation in the Galactic `Snake': infrared dark cloud G11.11-0.12. Monthly Notices of the Royal Astronomical Society **439**, 3275-3293 (2014)

Wang, P. F., W. P. Chen, C. C. Lin, A. K. Pandey, C. K. Huang, N. Panwar, C. H. Lee, M. F. Tsai, C.-H. Tang, B. Goldman, W. S. Burgett, K. C. Chambers, P. W. Draper, H. Flewelling, T. Grav, J. N. Heasley, K. W. Hodapp, M. E. Huber, R. Jedicke, N. Kaiser, R.-P. Kudritzki, G. A. Luppino, R. H. Lupton, E. A. Magnier, N. Metcalfe, D. G. Monet, J. S. Morgan, P. M. Onaka, P. A. Price, C. W. Stubbs, W. Sweeney, J. L. Tonry, R. J. Wainscoat and C. Waters: Characterization of the Praesepe star cluster by photometry and proper motions with 2MASS, PPMXL, and Pan-STARRS. The Astrophysical Journal **784**, id. 57 (10 pp) (2014)

Wiegert, J., R. Liseau, P. Thébault, G. Olofsson, A. Mora, G. Bryden, J. P. Marshall, C. Eiroa, B. Montesinos, D. Ardila, J. C. Augereau, A. Bayo Aran, W. C. Danchi, C. del Burgo, S. Ertel, M. C. W. Fridlund, M. Hajigholi, A. V. Krivov, G. L. Pilbratt, A. Roberge, G. J. White and S. Wolf: How dusty is α Centauri?. Excess or non-excess over the infrared photospheres of main-sequence stars. Astronomy and Astrophysics **563**, id. A102 (15 pp) (2014)

Wöllert, M., W. Brandner, S. Reffert, J. E. Schlieder, M. Mohler-Fischer, R. Köhler and T. Henning: The young binary HD 102077: Orbit, spectral type, kinematics, and moving group membership. Astronomy and Astrophysics **564**, id. A10 (8 pp) (2014)

Wu, S.-W., A. Bik, T. Henning, A. Pasquali, W. Brandner and A. Stolte: The discovery of a very massive star in W49. Astronomy and Astrophysics **568**, id. L13 (4 pp) (2014)

Yang, P., S. Hippler and J. Zhu: Optimization of the transmitted wavefront for the infrared adaptive optics system. Science China Physics, Mechanics, and Astronomy **57**, 608-614 (2014)

Zapatero Osorio, M. R., V. J. S. Béjar, E. L. Martín, M. C. Gálvez Ortiz, R. Rebolo, G. Bihain, T. Henning, S. Boudreault, B. Goldman, R. Mundt, J. A. Caballero and P. A. Miles-Páez: Spectroscopic follow-up of L- and T-type proper-motion member candidates in the Pleiades. Astronomy and Astrophysics **572**, id. A67 (6 pp) (2014)

Zapatero Osorio, M. R., M. C. Gálvez Ortiz, G. Bihain, C. A. L. Bailer-Jones, R. Rebolo, T. Henning, S. Boudreault, V. J. S. Béjar, B. Goldman, R. Mundt and J. A. Caballero: Search for free-floating planetary-mass objects in the Pleiades. Astronomy and Astrophysics **568**, id. A77 (16 pp) (2014)

Zhang, M., H. Wang and T. Henning: Herbig-Haro objects and mid-infrared outflows in the Vela C molecular cloud. The Astronomical Journal **148**, id. 26 (27 pp) (2014)

Zhou, G., D. Bayliss, J. D. Hartman, G. Á. Bakos, K. Penev, Z. Csubry, T. G. Tan, A. Jordán, L. Mancini, M. Rabus, R. Brahm, N. Espinoza, M. Mohler-Fischer, S. Ciceri, V. Suc, B. Csák, T. Henning and B. Schmidt: The mass-radius relationship for very low mass stars: four new discoveries from the HATSouth Survey. Monthly Notices of the Royal Astronomical Society **437**, 2831-2844 (2014)

Zhou, G., D. Bayliss, K. Penev, G. Á. Bakos, J. D. Hartman, A. Jordán, L. Mancini, M. Mohler, Z. Csubry, S. Ciceri, R. Brahm, M. Rabus, L. Buchhave, T. Henning, V. Suc, N. Espinoza, B. Béky, R. W. Noyes, B. Schmidt, R. P. Butler, S. Shectman, I. Thompson, J. Crane, B. Sato, B. Csák, J. Lázár, I. Papp, P. Sári and N. Nikolov: HATS-5b: A transiting hot Saturn from the HATSouth survey. The Astronomical Journal **147**, id. 144 (9 pp) (2014)

Zhukovska, S.: Dust origin in late-type dwarf galaxies: ISM growth vs. type II supernovae. Astronomy and Astrophysics **562**, id. A76 (10 pp) (2014)

Zurlo, A., A. Vigan, D. Mesa, R. Gratton, C. Moutou, M. Langlois, R. U. Claudi, L. Pueyo, A. Boccaletti, A. Baruffolo, J.-L. Beuzit, A. Costille, S. Desidera, K. Dohlen, M. Feldt, T. Fusco, T. Henning, M. Kasper, P. Martinez, O. Moeller-Nilsson, D. Mouillet, A. Pavlov, P. Puget, J.-F. Sauvage, M. Turatto, S. Udry, F. Vakili, R. Waters and R. F. Wildi: Performance of the VLT Planet Finder SPHERE. I. Photometry and astrometry precision with IRDIS and IFS in laboratory. Astronomy and Astrophysics **572**, id. A85 (13 pp) (2014)

top

Verantwortlich / *Responsible:* Axel M. Quetz
Letzte Änderung / *Last updated:* 20. April 2015

Übersicht / *Summary*

Planeten- und Sternentstehung/ *Planet and Star Formation* (2014)

Contributed Papers

Anugu, N., P. Garcia, A. Amorim, P. Gordo, F. Eisenhauer, G. Perrin, W. Brandner, C. Straubmeier and K. Perraut: Near-infrared aberration tracking using a correlation algorithm on the Galactic Center. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIE, id. 91485B (11 pp) (2014)

Anugu, N., P. J. V. Garcia, E. Wieprecht, A. Amorim, L. Burtscher, T. Ott, P. Gordo, F. Eisenhauer, G. Perrin, W. Brandner, C. Straubmeier and K. Perraut: The GRAVITY/VLTI acquisition camera software. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91462C (13 pp) (2014)

Barnes, N. R., A. Hughes, D. C. Wood, G. J. Appleby-Thomas, J. A. Leighs, M. Goff and P. J. Hazell: The effect of fibre orientation on a TWCP composite. Journal of Physics Conference Series **500**, id. 182045 (5pp) (2014)

Baudino, J.-L., B. Bézard, A. Boccaletti, M. Bonnefoy, A.-M. Lagrange, B. C. Matthews and J. R. Graham: A radiative-convective equilibrium model for young giant exoplanets: Application to β Pictoris b. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge Univ. Press, 277-278 (2014)

Bayo, A., C. Rodrigo, D. Barrado, E. Solano, F. Allard and V. Joergens: Physical parameters of young M-type stars and brown dwarfs with VOSA. In: International Workshop on Stellar Spectral Libraries, (Eds.) Singh, H., P. Prugniel, I. Vauglin. Astronomical Society of India Conference Series **11**, 93-101 (2014 online)

Bergomi, M., V. Viotto, C. Arcidiacono, L. Marafatto, J. Farinato, H. Baumeister, T. Bertram, J. Berwein, F. Briegel, A. Conrad, F. Kittman, D. Kopon, R. Hofferbert, D. Magrin, K. K. Radhakrishnan Santhakumari, A. Puglisi, M. Xompero, R. Briguglio, F. Quiros-Pacheco, T. M. Herbst and R. Ragazzoni: First light of the LINC-NIRVANA Pathfinder experiment. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIE, id. 91482Y (10 pp) (2014)

Bik, A., T. Henning, A. Stolte, W. Brandner, D. A. Gouliermis, M. Gennaro, A. Pasquali, B. Rochau, H. Beuther, N. Ageorges, W. Seifert, Y. Wang, N. Kudryavtseva, S. Goodwin and D. Ward-Thompson: Age spread in galactic star forming region W3 Main. In: The Labyrinth of Star Formation, (Eds.) Stamatellos, D., S. Goodwin, D. Ward-Thompson. Astrophysics and Space Science Proceedings **36**, Springer 401-405 (2014)

Bizenberger, P., H. Baumeister, P. Fopp, T. Herbst, W. Laun, L. Mohr and J. Moreno-Ventas: LINC-NIRVANA: Diffraction limited optics in cryogenic environment. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) Ramsay, S. K., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 91474B (13 pp) (2014)

Blind, N., H. Huber, F. Eisenhauer, J. Weber, S. Gillessen, M. Lippa, L. Burtscher, O. Hans, M. Haug, F. Haussmann, S. Huber, A. Janssen, S. Kellner, Y. Kok, T. Ott, O. Pfuhl, E. Sturm, E. Wieprecht, A. Amorim, W. Brandner, G. Perrin, K. Perraut and C. Straubmeier: The GRAVITY metrology system: modeling a metrology in optical fibers. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 914624 (20 pp) (2014)

Bonnefoy, M., A. Boccaletti, A.-M. Lagrange, F. Allard, C. Mordasini, H. Beust, G. Chauvin, J. H. V. Girard, D. Homeier, D. Apai, S. Lacour, D. Rouan, J. Rameau, H. Klahr, B. C. Matthews and J. R. Graham: Properties of the young gas giant planet β Pictoris b. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge Univ. Press, 241-246 (2014)

Boudreault, S., N. Lodieu, N. C. Hambly, N. R. Deacon, S. Goodwin and D. Ward-Thompson: Astrometric and photometric mass functions of the old open cluster Praesepe from the UKIDSS GCS. In: The Labyrinth of Star Formation, (Eds.) Stamatellos, D., S. Goodwin, D. Ward-Thompson. Astrophysics and Space Science Proceedings **36**, Springer, 355-357 (2014)

Burtscher, L., E. Wieprecht, T. Ott, Y. Kok, S. Yazici, N. Anugu, R. Dembet, P. Fedou, S. Lacour, J. Ott, T. Paumard, V. Lapeyrere, P. Kervella, R. Abuter, E. Pozna, F. Eisenhauer, N. Blind, R. Genzel, S. Gillessen, O. Hans, M. Haug, F. Haussmann, S. Kellner, M. Lippa, O. Pfuhl, E. Sturm, J. Weber, A. Amorim, W. Brandner, K. Rousselet-Perraut, G. S. Perrin, C. Straubmeier and M. Schöller: The GRAVITY instrument software/high-level software. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91462B (8 pp) (2014)

Conrad, A. R., C. Arcidiacono, H. Baumeister, M. Bergomi, T. Bertram, J. Berwein, F. Briegel, J. Farinato, T. Herbst, R. Hofferbert, F. Kittmann, M. Kürster, D. Kopon, L. Marafatto, M. Norris, R. Ragazzoni and V. Viotto: Acquiring multiple stars with the LINC-NIRVANA Pathfinder. In: Observatory Operations: Strategies, Processes, and Systems V, (Eds.) B., P. A., C. R. Benn, R. L. Seaman. SPIE **9149**, SPIE, id. 91491O (10 pp) (2014)

Crossfield, I., B. Biller, J. Schlieder, N. Deacon, M. Bonnefoy, D. Homeier, F. Allard, E. Buenzli, T. Henning, W. Brandner, B. Goldman, T. Kopytova and P. Gabor: Doppler imaging of exoplanets and brown dwarfs. In: Search for Life Beyond the Solar System. Exoplanets, Biosignatures & Instruments, (Ed.) Apai, D., id. P4.81 (2014 online)

Deen, C., P. Yang, A. Huber, M. Suarez-Valles, S. Hippler, W. Brandner, E. Gendron, Y. Clénet, S. Kendrew, A. Glauser, R. Klein, W. Laun, R. Lenzen, U. Neumann, J. Panduro, J. Ramos, R.-R. Rohloff, A. Salzinger, N. Zimmerman, T. Henning, K. Perraut, G. Perrin, C. Straubmeier, A. Amorim and F. Eisenhauer: Integration and bench testing for the GRAVITY Coudé IR adaptive optics (CIAO) wavefront sensor. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIUE, id. 91482T (8 pp) (2014)

Dittrich, K., H. Klahr and A. Johansen: Planetesimal formation in zonal flows arising in magneto-rotationally-unstable protoplanetary disks. In: Formation, Detection, and Characterization of Extrasolar Habitable Planets, (Ed.) Haghighipour, N. IAU Symp. **293**, Cambridge Univ. Press, 244-249 (2014)

Dorner, B., A. Huber, M. C. Cárdenas Vázquez, I. Ferro Rodriguez, P. Bizenberger, V. Naranjo, J. Panduro, U. Mall, M. Alter, R. Mathar, C. Storz, R.-R. Rohloff, P. Fopp, W. Laun, J. Ibañez, Miguel, A. J. García Segura, V. Terrón, J. W. Fried, M. Fernández, J. F. Rodríguez Gómez and K. Meisenheimer: PANIC in the lab: status before commissioning. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) K., R. S., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 91473X (13 pp) (2014)

Gerner, T., H. Beuther, D. Semenov, H. Linz, T. Vasyunina and T. Henning: Toward a chemical evolutionary sequence in high-mass star formation. In: Labyrinth of Star Formation, (Eds.) Stamatellos, D., S. Goodwin, D. WardThompson. Astrophysics and Space Science Proceedings **36**, Springer 415-416 (2014)

Haubois, X., P. Bernaud, G. Mella, G. Duvert, M. Benisty, P. Bério, L. Bourges, A. E. Chelli, O. Chesneau, S. Lacour, S. Lafrasse, J.-B. Le Bouquin, D. Mourard, N. Nardetto and J. Olofsson: A global database for optical interferometry. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91460O (7 pp) (2014)

Haubois, X., S. Lacour, G. S. Perrin, R. Dembet, P. Fedou, F. Eisenhauer, K. Rousselet-Perraut, C. Straubmeier, A. Amorim and W. Brandner: Phase tracking with differential dispersion. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91461Y (6 pp) (2014)

Huisken, F., G. Rouillé, M. Steglich, Y. Carpentier, C. Jäger, T. Henning and N. L. J. Cox: Laboratory studies on the role of PAHs as DIB carriers. In: The Diffuse Interstellar Bands, (Ed.) Cami, J. **297**, Cambridge Univ. Press, 265-275 (2014)

Jocou, L., K. Perraut, T. Moulin, Y. Magnard, P. Labeye, V. Lapras, A. Nolot, G. Perrin, F. Eisenhauer, C. Holmes, A. Amorim, W. Brandner and C. Straubmeier: The beam combiners of

Gravity VLTI instrument: concept, development, and performance in laboratory. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91461J (11 pp) (2014)

Joergens, V.: The theoretical prediction of the existence of brown dwarfs by Shiv S. Kumar. In: 50 Years of Brown Dwarfs, (Ed.) Joergens, V. Astrophysics and Space Science Library **401**, Springer, 1-3 (2014)

Johnston, K. G., H. Beuther, H. Linz, P. Boley, T. P. Robitaille, E. Keto, K. Wood, R. van Boekel, S. Goodwin and D. Ward-Thompson: The interplay between molecular and ionised gas surrounding the massive embedded star AFGL 4176. In: The Labyrinth of Star Formation,, (Eds.) Stamatellos, D., S. Goodwin, D. WardThompson. Astrophysics and Space Science Proceedings **36**, Springer, 413-414 (2014)

Kendrew, S., A. Ginsburg, K. Johnston, H. Beuther, J. Bally, C. J. Cyganowski, C. Battersby, C. C. Lang and J. Ott: All quiet on the Western front? New evidence for massive star formation in Sgr C. In: The Galactic Center: Feeding and Feedback in a Normal Galactic Nucleus, (Eds.) Sjouwerman, L. O., C. C. Lang, J. Ott. IAU Symp. **303**, Cambridge Univ. Press, 220-222 (2014)

Kim, J. S., M. Fang, A. Sicilia-Aguilar, R. van Boekel, T. Henning, Y. W. Kang and K.-C. Leung: Disk evolution of young stellar objects in Lynds 1641. In: 10th Pacific Rim Conference on Stellar Astrophysics, (Eds.) Lee, H.-W., K.-C. Leung, Y. W. Kang. ASP Conf. Ser. **482**, ASP, 41-47 (2014)

Köhler, R.: Speckle interferometry. In: Workshop on Observing Techniques, Instrumentation and Science for Metre-Class Telescopes, (Eds.) Pribulla, T., R. Komzik. Contributions of the Astronomical Observatory Skalnate Pleso **43,3**, Astron. Inst. of the Slovak Academy of Sciences, 229-236 (2014)

Kok, Y., S. Gillessen, S. Lacour, F. Eisenhauer, N. Blind, J. Weber, M. Lippa, O. Pfuhl, L. Burtscher, E. Wieprecht, T. Ott, M. Haug, S. Kellner, F. Haussmann, E. Sturm, A. Janssen, R. Genzel, G. Perrin, K. Perraut, C. Straubmeier, W. Brandner, A. Amorim and O. Hans: GRAVITY: the impact of non-common optical paths within the metrology system. In: GRAVITY: the impact of non-common optical paths within the metrology system, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 914625 (17 pp) (2014)

Kopon, D., A. Conrad, C. Arcidiacono, T. Herbst, V. Viotto, J. Farinato, M. Bergomi, R. Ragazzoni, L. Marafatto, H. Baumeister, T. Bertram, J. Berwein, F. Briegel, R. Hofferbert, F. Kittmann, M. Kürster, L. Mohr and K. Radhakrishnan: Pathfinder first light: alignment, calibration, and commissioning of the LINC-NIRVANA ground-layer adaptive optics subsystem. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIE, 28 (2014)

Kopytova, T. G., V. Joergens, A. Sicilia-Aguilar, M. V. Rodríguez-Ledesma, R. Mundt, B. C. Matthews and J. R. Graham: Variability of CHXR 20: accretion, extinction, spots or a companion? In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge Univ. Press, 216-217 (2014)

Kuiper, R., H. Klahr, H. Beuther, T. Henning, S. Goodwin and D. Ward-Thompson: A Solution to the Radiation Pressure Problem in the Formation of Massive Stars. In: The Labyrinth of Star Formation, (Ed.) Stamatellos, D. Astrophysics and Space Science Proceedings **36**, Springer, 379-383 (2014)

Kulas, M., J. L. Borelli, W. Gässler, D. Peter, S. Rabien, G. Orban de Xivry, L. Busoni, M. Bonaglia, T. Mazzoni and G. Rahmer: Practical experience with test-driven development during commissioning of the multi-star AO system ARGOS. In: Software and Cyberinfrastructure for Astronomy III, (Eds.) Chiozzi, G., N. M. Radziwill. SPIE **9152**, SPIE, id. 91520D (10 pp) (2014)

Kurokawa, H., L. Kaltenegger and T. Nakamoto: Mass-Loss Evolution of Super-Earths: Effects of Stellar Types. In: 45th Lunar and Planetary Science Conference, LPI Contribution **1777**, id. 1355 (2pp) (2014 online)

Lacour, S., F. Eisenhauer, S. Gillessen, O. Pfuhl, Y. Kok, G. Perrin, K. Rousselet-Perraut, C.

Straubmeier, W. Brandner, A. Amorin, J. Woillez and H. Bonnet: The interferometric baselines and GRAVITY astrometric error budget. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91462E (6 pp) (2014)

Lagrange, A.-M., H. Gilardy, H. Beust, G. Chauvin, J. Rameau, A. Boccaletti, J. Girard, M. Bonnefoy, B. C. Matthews and J. R. Graham: b Pictoris b orbital properties. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge Univ. Press, 299-300 (2014)

Langlois, M., K. Dohlen, A. Vigan, A. Zurlo, C. Moutou, H. M. Schmid, J. Mili, J.-L. Beuzit, A. Boccaletti, M. Carle, A. Costille, R. Dorn, L. Gluck, N. Hubin, M. Feldt, M. Kasper, L. Lizon, F. Madec, D. Le Mignant, D. Mouillet, J.-P. Puget, J.-F. Sauvage and F. Wildi: High contrast polarimetry in the infrared with SPHERE on the VLT. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) Ramsay, S. K., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 91471R (7 pp) (2014)

Langlois, M., A. Vigan, K. Dohlen, C. Moutou, J.-L. Beuzit, A. Boccaletti, M. Carle, A. Costille, R. Dorn, L. Gluck, C. Gry, N. Hubin, M. Feldt, M. Kasper, F. Madec, D. Le Mignant, J.-L. Lizon, D. Mouillet, A. Origné, P. Puget, J.-F. Sauvage, F. Wildi and A. Zurlo: Infrared differential imager and spectrograph for SPHERE: performance assessment for on-sky operation. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) Ramsay, S. K., I. S. McLean, H. Takami. SPIE **9147**, SPIE id. 91479P (8 pp) (2014)

Lapeyrere, V., P. Kervella, S. Lacour, N. Azouaoui, C. E. Garcia-Dabo, G. Perrin, F. Eisenhauer, K. Perraut, C. Straubmeier, A. Amorim and W. Brandner: GRAVITY data reduction software. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91462D (9 pp) (2014)

Lazareff, B., N. Blind, L. Jocou, F. Eisenhauer, K. Perraut, S. Lacour, F. Delplancke, M. Schoeller, A. Amorim, W. Brandner, G. Perrin and C. Straubmeier: Telescope birefringence and phase errors in the Gravity instrument at the VLT interferometer. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91460X (15 pp) (2014)

Leisenring, J. M., P. M. Hinz, M. Skrutskie, A. Skemer, C. E. Woodward, C. Veillet, C. Arcidiacono, V. Bailey, M. Bertero, P. Boccacci, A. Conrad, K. de Kleer, I. de Pater, D. Defrère, J. Hill, K.-H. Hofmann, L. Kaltenegger, A. La Camera, M. J. Nelson, D. Schertl, J. Spencer, G. Weigelt and J. C. Wilson: Fizeau interferometric imaging of Io volcanism with LBTI/LMIRcam. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91462S (9 pp) (2014)

Linz, H., R. Follert, P. A. Boley, R. van Boekel, B. Stecklum, C. Leinert, T. Henning, J. A. Guzik and R. E. Stencel: MIDI interferometry of massive YSOs: Updates on the MPIA program. In: Resolving The Future Of Astronomy With Long-Baseline Interferometry, (Ed.) Creech-Eakman, M. J. ASP Conf. Ser. **487**, ASP, 331-336 (2014)

Lippa, M., N. Blind, S. Gillessen, Y. Kok, J. Weber, F. Eisenhauer, O. Pfuhl, A. Janssen, M. Haug, F. Haußmann, S. Kellner, O. Hans, E. Wieprecht, T. Ott, L. Burtscher, R. Genzel, E. Sturm, R. Hofmann, S. Huber, D. Huber, S. Senftleben, A. Pflüger, R. Greßmann, G. Perrin, K. Perraut, W. Brandner, C. Straubmeier, A. Amorim and M. Schöller: The GRAVITY metrology system: narrow-angle astrometry via phase-shifting interferometry. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 914622 (11 pp) (2014)

Lodieu, N., S. Boudreault, N. R. Deacon and N. C. Hambly: Astrometric and photometric mass functions in open clusters from UKIDSS GCS DR9. In: The Labyrinth of Star Formation, (Eds.) Stamatellos, D., S. Goodwin, D. Ward-Thompson. Astrophysics and Space Science Proceedings **36**, Springer, 317-321 (2014)

Lopez, B., S. Lagarde, W. Jaffe, R. Petrov, M. Schöller, P. Antonelli, U. Beckman, P. Bério, F. Bettonvil, U. Graser, F. Millour, S. Robbe-Dubois, L. Venema, S. Wolf, P. Bristow, A. Glindemann, J.-C. Gonzalez, T. Lanz, T. Henning, G. Weigelt, T. Agócs, J.-C. Augereau, G. Ávila, C. Bailet, J. Behrend, J.-P. Berger, R. von Boekel, S. Bonhomme, P. Bourget, R. Brast, Y. Bresson, J. M. Clausse, O. Chesneau, G. Csépány, C. Connot, A. Crida, W. C. Danchi, M. Delbo, F. Delplancke, C. Dominik, M. Dugué, E. Elswijk, Y. Fanteï, G. Finger, A. Gabasch, P.

Girard, V. Girault, P. Gitton, A. Glazenborg, F. Gonté, F. Guitton, S. Guniat, M. De Haan, P. Haguenauer, H. Hanenburg, M. Heininger, K.-H. Hofmann, M. Hogerheijde, R. ter Horst, J. Hron, Y. Hughes, D. Ives, G. Jakob, A. Jaskó, P. Jolley, J. Kragt, R. Köhler, T. Kroener, G. Kroes, L. Labadie, W. Laun, M. Lehmitz, C. Leinert, J. L. Lizon, C. Lucuix, A. Marcotto, F. Martinache, A. Matter, G. Martinot-Lagarde, N. Mauclert, L. Mehrgan, A. Meilland, M. Mellein, S. Ménardi, J. L. Menut, K. Meisenheimer, S. Morel, L. Mosoni, R. Navarro, U. Neumann, E. Nussbaum, S. Ottogalli, R. Palsa, J. Panduro, E. Pantin, I. Percheron, T. P. Duc, J.-U. Pott, E. Pozna, F. Przygodda, A. Richichi, F. Rigal, G. Rupprecht, D. Schertl, J. Stegmeier, L. Thiam, N. Tromp, M. Vannier, F. Vakili, G. van Belle, K. Wagner and J. Woillez: MATISSE status report and science forecast. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91460M (10 pp) (2014)

Maire, A.-L., A. Boccaletti, J. Rameau, G. Chauvin, A.-M. Lagrange, M. Bonnefoy, S. Desidera, M. Sylvestre, P. Baudoz, R. Galicher, D. Mouillet, B. C. Matthews and J. R. Graham: Search for cool extrasolar giant planets combining coronagraphy, spectral and angular differential imaging. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge Univ. Press, 21-25 (2014)

Mancini, L.: Strategies to photometric follow-up transiting exoplanets. In: Workshop on Observing Techniques, Instrumentation and Science for Metre-Class Telescopes, (Eds.) Pribulla, T., R. Komzik. Contributions of the Astronomical Observatory Skalnate Pleso **43,3**, Astron. Inst. of the Slovak Academy of Sciences, 394-401 (2014)

Menu, J., R. van Boekel, T. Henning, M. Benisty, C. J. Chandler, H. Linz, C. Waelkens, S. M. Andrews, N. Calvet, J. M. Carpenter, S. A. Corder, A. T. Deller, C. P. Dullemond, J. S. Greaves, R. J. Harris, A. Isella, W. Kwon, J. Lazio, L. G. Mundy, L. M. Perez, L. Ricci, A. I. Sargent, S. Storm, L. Testi, D. J. Wilner, B. C. Matthews and J. R. Graham: TW Hydrae: multi-wavelength interferometry of a transition disk. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge University Press, 104-108 (2014)

Mesa, D., R. Gratton, R. U. Claudi, S. Desidera, E. Giro, A. Zurlo, A. Costille, A. Vigan, C. Moutou, J.-L. Beuzit, K. Dohlen, M. Feldt, D. Mouillet, J.-F. Sauvage, M. Kasper, J. Antichi, B. C. Matthews and J. R. Graham: Performance tests on the SPHERE-IFS. In: Exploring the Formation and Evolution of Planetary Systems, (Ed.) Booth, M. IAU Symp. **299**, Cambridge Univ. Press, 54-55 (2014)

Morales, E. F. E., F. Wyrowski, K. M. Menten and F. Schuller: Stellar clusters in the inner galaxy and their correlation with ATLASGAL. In: The Labyrinth of Star Formation, Vol. 36, (Eds.) Stamatellos, D., S. Goodwin, D. Ward-Thompson. Springer, Cham 2014, 477-479

Moreno-Ventas, J., H. Baumeister, T. Bertram, P. Bizenberger, F. Briegel, D. Greggio, F. Kittmann, L. Marafatto, L. Mohr, K. Radhakrishnan and H. Schray: Optical integration and verification of LINC-NIRVANA. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) Ramsay, S. K., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 91473V (13 pp) (2014)

Ott, T., E. Wieprecht, L. Burtscher, Y. Kok, S. Yazici, N. Anugu, R. Dembet, P. Fedou, S. Lacour, J. Ott, F. Eisenhauer, N. Blind, R. Genzel, S. Gillessen, O. Hans, M. Haug, F. Haussmann, S. Huber, A. Janssen, S. Kellner, M. Lippa, O. Pfuhl, E. Sturm, J. Weber, A. Amorim, W. Brandner, K. Rousselet-Perraut, G. S. Perrin, C. Straubmeier, M. Schöller and R. Abuter: The GRAVITY instrument software/hardware related aspects. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91462A (6 pp) (2014)

Pfuhl, O., M. Haug, F. Eisenhauer, S. Kellner, F. Haussmann, G. Perrin, S. Gillessen, C. Straubmeier, T. Ott, K. Rousselet-Perraut, A. Amorim, M. Lippa, A. Janssen, W. Brandner, Y. Kok, N. Blind, L. Burtscher, E. Sturm, E. Wieprecht, M. Schoeller, J. Weber, O. Hans and S. Huber: The fiber coupler and beam stabilization system of the GRAVITY interferometer. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 914623 (14 pp) (2014)

Quirrenbach, A., P. J. Amado, J. A. Caballero, H. Mandel, R. Mundt, A. Reiners, I. Ribas, M. A. S. Carrasco, W. Seifert, M. Azzaro, D. Galadí, B. C. Matthews and J. R. Graham: CARMENES: Blue planets orbiting red dwarfs. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge

University Press, 395-396 (2014)

Quirrenbach, A., P. J. Amado, J. A. Caballero, H. Mandel, R. Mundt, A. Reiners, I. Ribas, M. A. Sánchez Carrasco, W. Seifert, M. Azzaro, D. Galadí and C. Consortium: The CARMENES Survey: A search for terrestrial planets in the habitable zones of M dwarfs. In: Formation, Detection, and Characterization of Extrasolar Habitable Planets, (Ed.) Haghighipour, N. IAU Symp. **293**, Cambridge University Press, 177-182 (2014)

Quirrenbach, A., P. J. Amado, J. A. Caballero, R. Mundt, A. Reiners, I. Ribas, W. Seifert, M. Abril, J. Aceituno, F. J. Alonso-Floriano, M. Ammler-von Eiff, R. Antona Jiménez, H. Anwand-Heerwart, M. Azzaro, F. Bauer, D. Barrado, S. Becerril, V. J. S. Béjar, D. Benítez, Z. M. Berdiñas, M. C. Cárdenas, E. Casal, A. Claret, J. Colomé, M. Cortés-Contreras, S. Czesla, M. Doellinger, S. Dreizler, C. Feiz, M. Fernández, D. Galadí, M. C. Gálvez-Ortiz, A. García-Piquer, M. L. García-Vargas, R. Garrido, L. Gesa, V. Gómez Galera, E. González Álvarez, J. I. González Hernández, U. Grözinger, J. Guàrdia, E. W. Guenther, E. de Guindos, J. Gutiérrez-Soto, H.-J. Hagen, A. P. Hatzes, P. H. Hauschildt, J. Helmling, T. Henning, D. Hermann, L. Hernández Castaño, E. Herrero, D. Hidalgo, G. Holgado, A. Huber, K. F. Huber, S. Jeffers, V. Joergens, E. de Juan, M. Kehr, R. Klein, M. Kürster, A. Lamert, S. Lalitha, W. Laun, U. Lemke, R. Lenzen, M. López del Fresno, B. López Martí, J. López-Santiago, U. Mall, H. Mandel, E. L. Martín, S. Martín-Ruiz, H. Martínez-Rodríguez, C. J. Marvin, R. J. Mathar, E. Mirabet, D. Montes, R. Morales Muñoz, A. Moya, V. Naranjo, A. Ofir, R. Oreiro, E. Pallé, J. Panduro, V.-M. Passegger, A. Pérez-Calpena, D. Pérez Medialdea, M. Perger, M. Pluto, A. Ramón, R. Rebolo, P. Redondo, S. Reffert, S. Reinhardt, P. Rhode, H.-W. Rix, F. Rodler, E. Rodríguez, C. Rodríguez-López, E. Rodríguez-Pérez, R.-R. Rohloff, A. Rosich, E. Sánchez-Blanco, M. A. Sánchez Carrasco, J. Sanz-Forcada, L. F. Sarmiento, S. Schäfer, J. Schiller, C. Schmidt, J. H. M. M. Schmitt, E. Solano, O. Stahl, C. Storz, J. Stürmer, J. C. Suárez, R. G. Ulbrich, G. Veredas, K. Wagner, J. Winkler, M. R. Zapatero Osorio, M. Zechmeister, F. J. Abellán de Paco, G. Anglada-Escudé, C. del Burgo, A. Klutsch, J. L. Lizon, M. López-Morales, J. C. Morales, M. A. C. Perryman, S. M. Tulloch and W. Xu: CARMENES instrument overview. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) K., R. S., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 91471F (12 pp) (2014)

Raab, W., S. Rabien, W. Gässler, S. Esposito, L. Barl, J. Borelli, M. Daysenroth, H. Gemperlein, M. Kulas and J. Ziegleder: The ARGOS laser system: green light for ground layer adaptive optics at the LBT. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIE, id. 91483K (13 pp) (2014)

Rabien, S., L. Barl, U. Beckmann, M. Bonaglia, J. L. Borelli, J. Brynnel, P. Buschkamp, L. Busoni, J. Christou, C. Connot, R. Davies, M. Deysenroth, S. Esposito, W. Gässler, H. Gemperlein, M. Hart, M. Kulas, M. Lefebvre, M. Lehmitz, T. Mazzoni, E. Nussbaum, G. Orban de Xivry, D. Peter, A. Quirrenbach, W. Raab, G. Rahmer, J. Storm and J. Ziegleder: Status of the ARGOS project. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIE, id. 91481B (13 pp) (2014)

Radhakrishnan Santhakumari, K. K., L. Marafatto, M. Bergomi, V. Viotto, J. Farinato, R. Ragazzoni, T. Herbst, T. Bertram, M. Dima, P. Bizenberger, F. Briegel, F. Kittmann, L. Mohr and D. Magrin: Ground layer correction: the heart of LINC-NIRVANA. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIE, id. 91482R (13 pp) (2014)

Rahmer, G., M. Lefebvre, J. Christou, W. Raab, S. Rabien, J. Ziegleder, J. L. Borelli and W. Gässler: Early laser operations at the Large Binocular Telescope Observatory. In: Observatory Operations: Strategies, Processes, and Systems V, (Eds.) B., P. A., C. R. Benn, R. L. Seaman. SPIE **9149**, SPIE, id. 91492A (12 pp) (2014)

Ricker, G. R., J. N. Winn, R. Vanderspek, D. W. Latham, G. Á. Bakos, J. L. Bean, Z. K. Berta-Thompson, T. M. Brown, L. Buchhave, N. R. Butler, R. P. Butler, W. J. Chaplin, D. Charbonneau, J. Christensen-Dalsgaard, M. Clampin, D. Deming, J. Doty, N. De Lee, C. Dressing, E. W. Dunham, M. Endl, F. Fressin, J. Ge, T. Henning, M. J. Holman, A. W. Howard, S. Ida, J. Jenkins, G. Jernigan, J. A. Johnson, L. Kaltenegger, N. Kawai, H. Kjeldsen, G. Laughlin, A. M. Levine, D. Lin, J. J. Lissauer, P. MacQueen, G. Marcy, P. R. McCullough, T. D. Morton, N. Narita, M. Paegert, E. Palle, F. Pepe, J. Pepper, A. Quirrenbach, S. A. Rinehart, D. Sasselov, B. e. Sato, S. Seager, A. Sozzetti, K. G. Stassun, P. Sullivan, A. Szentgyorgyi, G. Torres, S. Udry and J. Villasenor: Transiting Exoplanet Survey Satellite (TESS). In: Space Telescopes and Instrumentation 2014: Optical, Infrared, and Millimeter Wave (Eds.) Oschmann, J. M., M. Clampin, G. G. Fazio, H. A. MacEwen. SPIE **9143**, SPIE, id. 914320 (15

pp) (2014)

Robitaille, T. P., B. A. Whitney, S. Goodwin and D. Ward-Thompson: A New Set of Model Spectral Energy Distributions for Young Stellar Objects. In: The Labyrinth of Star Formation, (Eds.) Stamatellos, D., S. Goodwin, D. Ward-Thompson. Astrophysics and Space Science Proceedings **36**, Springer, 157-160 (2014)

Rodón, J. A., H. Beuther and Q. Zhang: Deuteration in high-mass star forming regions. In: The Labyrinth of Star Formation, (Eds.) Stamatellos, D., S. Goodwin, D. Ward-Thompson. Astrophysics and Space Science Proceedings **36**, Springer, 425-427 (2014)

Rodrigo, C., A. Bayo, E. Solano, D. Barrado y Navascués and P. Forshay: VOSA: A VO Spectral Energy Distribution Analyzer. In: Astronomical Data Analysis Software and Systems XXIII, (Eds.) Manset, N., P. Forshay. ASP Conference Ser. **485**, ASP, 321-324 (2014)

Rouillé, G., C. Jäger, F. Huisken, T. Henning and N. L. J. Cox: Polyynyl-substituted PAH molecules and DIB carriers. In: The Diffuse Interstellar Bands, (Eds.) Cami, J., N. L. J. Cox. IAU Symp. **297**, Cambridge Univ. Press, 276-280 (2014)

Sarmiento, L. F., A. Reiners, U. Seemann, U. Lemke, J. Winkler, M. Pluto, E. W. Günther, A. Quirrenbach, P. J. Amado, I. Ribas, J. A. Caballero, R. Mundt and W. Seifert: Characterizing U-Ne hollow cathode lamps at near-IR wavelengths for the CARMENES survey. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) Ramsay, S. K., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 914754 (9 pp) (2014)

Schuller, F., K. M. Menten, F. Wyrowski, Y. Contreras, T. Csengeri, J. S. Urquhart, M. Wienen, H. Beuther, S. Bontemps, L. Bronfman, L. Deharveng, T. Henning, M. Walmsley and A. Zavagno: The next generation of high-mass stars and clusters traced by ATLASGAL. In: The Labyrinth of Star Formation, Vol. 36, (Eds.) Stamatellos, D., S. Goodwin, D. Ward-Thompson. Springer, Basel 2014, 421-423

Skemer, A., D. Apai, V. Bailey, B. Biller, M. Bonnefoy, W. Brandner, E. Buenzli, L. Close, J. Crepp, D. Defrere, S. Desidera, J. Eisner, S. Esposito, J. Fortney, T. Henning, P. Hinz, K.-H. Hofmann, J. Leisenring, J. Males, R. Millan-Gabet, K. Morzinski, A. Oza, I. Pascucci, J. Patience, G. Rieke, D. Schertl, J. Schlieder, M. Skrutskie, K. Su, G. Weigelt, C. E. Woodward, N. Zimmerman, B. C. Matthews and J. R. Graham: LEECH: A 100 night exoplanet imaging survey at the LBT. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge Univ. Press, 70-71 (2014)

Skemer, A. J., P. Hinz, S. Esposito, M. F. Skrutskie, D. Defrère, V. Bailey, J. Leisenring, D. Apai, B. Biller, M. Bonnefoy, W. Brandner, E. Buenzli, L. Close, J. Crepp, R. J. De Rosa, S. Desidera, J. Eisner, J. Fortney, T. Henning, K.-H. Hofmann, T. Kopytova, A.-L. Maire, J. R. Males, R. Millan-Gabet, K. Morzinski, A. Oza, J. Patience, A. Rajan, G. Rieke, D. Schertl, J. Schlieder, K. Su, A. Vaz, K. Ward-Duong, G. Weigelt, C. E. Woodward and N. Zimmerman: High contrast imaging at the LBT: the LEECH exoplanet imaging survey. In: Adaptive Optics Systems IV, (Eds.) Marchetti, E., L. M. Close, J.-P. Véran. SPIE **9148**, SPIE, id. 91480L (12 pp) (2014)

Straubmeier, C., S. Yazici, M. Wiest, I. Wank, S. Fischer, F. Eisenhauer, G. Perrin, K. Perraut, W. Brandner, A. Amorim, M. Schöller and A. Eckart: The GRAVITY spectrometers: optical design and first light. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 914629 (13 pp) (2014)

Vigan, A., G. Chauvin, M. Bonavita, S. Desidera, M. Bonnefoy, D. Mesa, J.-L. Beuzit, J.-C. Augereau, B. Biller, A. Boccaletti, E. Brugaletta, E. Buenzli, J. Carson, E. Covino, P. Delorme, A. Eggenberger, M. Feldt, J. Hagelberg, T. Henning, A.-M. Lagrange, A. Lanzafame, F. Ménard, S. Messina, M. Meyer, G. Montagnier, C. Mordasini, D. Mouillet, C. Moutou, L. Mugnier, S. P. Quanz, M. Reggiani, D. Ségransan, C. Thalmann, R. Waters, A. Zurlo, B. C. Matthews and J. R. Graham: Results of the NaCo Large Program: probing the occurrence of exoplanets and brown dwarfs at wide orbit. In: Exploring the Formation and Evolution of Planetary Systems, (Eds.) Booth, M., B. C. Matthews, J. R. Graham. IAU Symp. **299**, Cambridge Univ. Press, 17-20 (2014)

Wank, I., C. Straubmeier, M. Wiest, S. Yazici, S. Fischer, F. Eisenhauer, G. S. Perrin, K. Perraut, W. Brandner, A. Amorim, M. Schöller and A. Eckart: The GRAVITY spectrometers: thermal

behaviour. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 914628 (7 pp) (2014)

Wiest, M., S. Yazici, S. Fischer, M. Thiel, M. Haug, C. Araujo-Hauck, C. Straubmeier, I. Wank, F. Eisenhauer, G. Perrin, W. Brandner, K. Perraut, A. Amorim, M. Schöller and A. Eckart: The GRAVITY spectrometers: design report of the optomechanics and active cryogenic mechanisms. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) Ramsay, S. K., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 91472M (9 pp) (2014)

Woillez, J., R. Abuter, L. Andolfato, J.-P. Berger, H. Bonnet, F. Delplancke, F. Derie, N. Di Lieto, S. Guniat, A. Mérand, T. P. Duc, C. Schmid, N. Schuhler, T. Henning, R. Launhardt, F. Pepe, D. Queloz, A. Quirrenbach, S. Reffert, J. Sahlmann and D. Segransan: Improving the astrometric performance of VLTI-PRIMA. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 91461H (12 pp) (2014)

Wood, D. C., G. J. Appleby-Thomas, J. A. Leighs, M. Goff, N. R. Barnes, A. Hughes and P. J. Hazell: The use of lateral gauges in the assessment of shear strength in a carbon fibre composite. Journal of Physics Conference Series **500**, id. 112069 (6 pp) (2014 online)

Yazici, S., C. Straubmeier, M. Wiest, I. Wank, S. Fischer, M. Horrobin, F. Eisenhauer, G. Perrin, K. Perraut, W. Brandner, A. Amorim, M. Schöller and A. Eckart: The GRAVITY spectrometers: optical qualification. In: Optical and Infrared Interferometry IV, (Eds.) Rajagopal, J. K., M. J. Creech-Eakman, F. Malbet. SPIE **9146**, SPIE, id. 914627 (14 pp) (2014)

Zhukovska, S. and T. Henning: Life cycle of dust in the Magellanic Clouds and the Milky Way. In: Life Cycle of Dust in the Universe: Observations, Theory, and Laboratory Experiments, (Eds.) Andersen, A., M. Baes, H. Gomez, C. Kemper, D. Watson. PoS (LCDU2013), id. 16 (20 pp) (2014 online)

Zurlo, A., D. Mesa, R. Gratton, R. Claudi, S. Desidera, E. Giro, J.-L. Beuzit, K. Dohlen, D. Mouillet, P. Puget, F. Wildi, M. Feldt, O. Moeller-Nilsson, A. Baruffolo, D. Fantinel, B. Salasnich, M. Kasper, A. Costille, J.-F. Sauvage, A. Vigan, C. Moutou, M. Langlois, J. Antichi, A. Pavlov, N. Zimmerman and M. Turatto: Methods for the detection and the characterization of low mass companions using the IFS of SPHERE. In: Ground-based and Airborne Instrumentation for Astronomy V, (Eds.) Ramsay, S. K., I. S. McLean, H. Takami. SPIE **9147**, SPIE, id. 914770 (12 pp) (2014)

top

Verantwortlich / *Responsible:* Axel M. Quetz
Letzte Änderung / *Last updated:* 20. April 2015

Übersicht / *Summary*

Planeten- und Sternentstehung/ *Planet and Star Formation* (2014)

Invited papers and reviews:

Benz, W., S. Ida, Y. Alibert, D. Lin and C. Mordasini: Planet population synthesis. In: Protostars and Planets VI, (Eds.) Beuther, H., R. S. Klessen, C. P. Dullemond, T. Henning. University of Arizona Press, Tucson 2014, 691-713

Ceccarelli, C., P. Caselli, D. Bockelée-Morvan, O. Mousis, S. Pizzarello, F. Robert and D. Semenov: Deuterium fractionation: The Ariadne's thread from the precollapse phase to meteorites and comets today. In: Protostars and Planets VI, (Eds.) Beuther, H., R. S. Klessen, C. P. Dullemond, T. Henning. University of Arizona Press, Tucson, Ariz. 2014, 859-882

Dunham, M. M., A. M. Stutz, L. E. Allen, N. J. Evans, II, W. J. Fischer, S. T. Megeath, P. C. Myers, S. S. R. Offner, C. A. Poteet, J. J. Tobin and E. I. Vorobyov: The evolution of protostars: Insights from ten years of infrared surveys with Spitzer and Herschel. In: Protostars and Planets VI, (Eds.) Beuther, H., R. S. Klessen, C. P. Dullemond, T. Henning. University of Arizona Press, Tucson, Ariz. 2014, 195-218

Dutrey, A., D. Semenov, E. Chapillon, U. Gorti, S. Guilloteau, F. Hersant, M. Hogerheijde, M. Hughes, G. Meeus, H. Nomura, V. Piétu, C. Qi and V. Wakelam: Physical and chemical structure of planet-forming disks probed by millimeter observations and modeling. In: Protostars and Planets VI, (Eds.) Beuther, H., R. S. Klessen, C. P. Dullemond, T. Henning. University of Arizona Press, Tucson, Ariz. 2014, 317-338

Turner, N. J., S. Fromang, C. Gammie, H. Klahr, G. Lesur, M. Wardle and X.-N. Bai: Transport and accretion in planet-forming disks. In: Protostars and Planets VI, (Eds.) Beuther, H., R. S. Klessen, C. P. Dullemond, T. Henning. University of Arizona Press, Tucson, Ariz. 2014, 411-432

Verantwortlich / *Responsible:* Axel M. Quetz
Letzte Änderung / *Last updated:* 20. April 2015

Übersicht / *Summary*

Planeten- und Sternentstehung/ *Planet and Star Formation* (2014)

Conference Proceedings & Books

Protostars and Planets VI. University of Arizona Press, XVI, 914pp (2014)

Conrad, A. R.: Software Systems for Astronomy. Springer, New York [u.a.] 2014, IX, 95p

Damrau, B.: Numerical simulations of planetesimal accretion Ruprecht-Karls-Universität Heidelberg 2014

Joergens, V.: 50 Years of Brown Dwarfs: From Prediction to Discovery to Forefront of Research. Springer, Berlin 2014, XI, 168p

Schierhuber, T.: Interferometric imaging procedures. Ruprecht-Karls-Universität Heidelberg, 2014

Verantwortlich / *Responsible:* Axel M. Quetz
Letzte Änderung / *Last updated:* 11. März 2015

Übersicht / *Summary*

Planeten- und Sternentstehung/ *Planet and Star Formation* (2014)

Popular Papers:

Beuther, H.: Wie aus Gas und Staub Sterne entstehen. Sterne und Weltraum **2014,3**, 40-50 (2014)

Huisken, F. and C. Jäger: Diffuse Banden im All. Physik Journal **13**, 29-34 (2014)

Lemke, D.: Das James-Webb-Teleskop. Teil 2: Meilensteine, Menschen, Milliarden. Sterne und Weltraum **2014,10**, 44-52 (2014)

Lemke, D.: Das James-Webb-Teleskop. Teil 1: Besuch in einer Zeit, in der die Galaxien jung waren. Sterne und Weltraum **2014,9**, 30-40 (2014)

Lemke, D.: Dunkle Linien im Farbenbild der Sonne. Teil. 1: Fraunhofer – Handwerker, Wissenschaftler, Unternehmer. Sterne und Weltraum **2014,12**, 46-57 (2014)

Lemke, D.: Von einem Altonaer, der auszog die Erde zu vermessen – Der Struve-Bogen als wissenschaftliches Kulturerbe in zehn Staaten. In: Sonne, Mond und Sterne - Meilensteine der Astronomiegeschichte, Vol. 29, (Ed.) Wolfschmidt, G. tredition, Hamburg 2014, 128-147

Lopez, B., S. Lagarde, W. Jaffe, R. Petrov, M. Schöller, P. Antonelli, U. Beckmann, P. Berio, F. Bettonvil, A. Glindemann, J.-C. Gonzalez, U. Graser, K.-H. Hofmann, F. Millour, S. Robbe-Dubois, L. Venema, S. Wolf, T. Henning, T. Lanz, G. Weigelt, T. Agocs, C. Bailet, Y. Bresson, P. Bristow, M. Dugué, M. Heininger, G. Kroes, W. Laun, M. Lehmitz, U. Neumann, J.-C. Augereau, G. Avila, J. Behrend, G. van Belle, J.-P. Berger, R. van Boekel, S. Bonhomme, P. Bourget, R. Brast, J.-M. Clausse, C. Connot, R. Conzelmann, P. Cruzalèbes, G. Csepany, W. Danchi, M. Delbo, F. Delplancke, C. Dominik, A. van Duin, E. Elswijk, Y. Fantei, G. Finger, A. Gabasch, J. Gay, P. Girard, V. Girault, P. Gitton, A. Glazenborg, F. Gonté, F. Guitton, S. Guniat, M. De Haan, P. Haguenauer, H. Hanenburg, M. Hogerheijde, R. ter Horst, J. Hron, Y. Hugues, C. Hummel, J. Idserda, D. Ives, G. Jakob, A. Jasko, P. Jolley, S. Kiraly, R. Köhler, J. Kragt, T. Kroener, S. Kuindersma, L. Labadie, C. Leinert, R. Le Poole, J.-L. Lizon, C. Lucuix, A. Marcotto, F. Martinache, G. Martinot-Lagarde, R. Mathar, A. Matter, N. Mauclert, L. Mehrgan, A. Meilland, K. Meisenheimer, J. Meisner, M. Mellein, S. Menardi, J.-L. Menut, A. Merand, S. Morel, L. Mosoni, R. Navarro, E. Nussbaum, S. Ottogalli, R. Palsa, J. Panduro, E. Pantin, T. Parra, I. Percheron, T. P. Duc, J.-U. Pott, E. Pozna, F. Przygodda, Y. Rabbia, A. Richichi, F. Rigal, R. Roelfsema, G. Rupprecht, D. Schertl, C. Schmidt, N. Schuhler, M. Schuil, A. Spang, J. Stegmeier, L. Thiam, N. Tromp, F. Vakili, M. Vannier, K. Wagner and J. Woillez: An overview of the MATISSE instrument --- science, concept and current status. The Messenger **157**, 5-12 (2014)

top

Verantwortlich / *Responsible:* Axel M. Quetz
Letzte Änderung / *Last updated:* 27. April 2015