

Institute for Astronomy
University of Hawai‘i at Mānoa
Publications in Calendar Year 2011

- Agieros, M. A., Covey, K. R., Lemonias, J. J., Law, N. M., **Kraus, A.**, et al. The Factory and the Beehive. I. Rotation Periods for Low-Mass Stars in Praesepe. *ApJ*, 740, 110 (2011)
- Aguirre, J. E., et al., including **Walawender, J.**, **Williams, J. P.** The Bolocam Galactic Plane Survey: Survey Description and Data Reduction. *ApJS*, 192, 4 (2011)
- A’Hearn, M. F., et al., including **Meech, K. J.** EPOXI at Comet Hartley 2. *Science*, 332, 1396–1400 (2011)
- Al-Haddad, N.**, **Roussev, I. I.**, Möstl, C., Jacobs, C., **Lugaz, N.**, Poedts, S., & Farrugia, C. J. On the Internal Structure of the Magnetic Field in Magnetic Clouds and Interplanetary Coronal Mass Ejections: Writhe versus Twist. *ApJ*, 738, L18 (2011)
- Allevato, V., Finoguenov, A., Cappelluti, N., Miyaji, T., **Hasinger, G.**, et al. Redshift Evolution of X-ray Selected AGN Bias in the COSMOS Field. The X-ray Universe 2011, 29 (slide presentation) (2011)
- Arce, H. G., Borkin, M. A., Goodman, A. A., Pineda, J. E., & **Beaumont, C. N.** A Bubbling Nearby Molecular Cloud: COMPLETE Shells in Perseus. *ApJ*, 742, 105 (2011)
- Archinal, B. A., et al., including **Tholen, D. J.** Report of the IAU Working Group on Cartographic Coordinates and Rotational Elements: 2009. *Celestial Mechanics and Dynamical Astronomy*, 109, 101–135 (2011)
- Armond, T., **Reipurth, B.**, Bally, J., & **Aspin, C.** Star Formation in the “Gulf of Mexico.” *A&A*, 528, A125 (2011)
- Artigau, É., Lafrenière, D., Doyon, R., **Liu, M.**, et al. Discovery of Two L and T Binaries with Wide Separations and Peculiar Photometric Properties. *ApJ*, 739, 48 (2011)
- Aspin, C.** The Continuing Outburst of V1647 Orionis: Winter/Spring 2011 Observations. *AJ*, 142, 135 (2011)
- Aspin, C.** V2492 Cygni: The Early Evolution of the 2010 Outburst. *AJ*, 141, 196 (2011)
- Aspin, C.**, et al. CSO Bolocam 1.1 mm Continuum Mapping of the Braid Nebula Star Formation Region in Cygnus OB7. *AJ*, 141, 139 (2011)
- Ballantyne, D. R., Draper, A. R., Madsen, K. K., Rigby, J. R., & **Treister, E.** Lifting the Veil on Obscured Accretion: Active Galactic Nuclei Number Counts and Survey Strategies for Imaging Hard X-Ray Missions. *ApJ*, 736, 56 (2011)
- Barnes, J. E.** Identikit 2: An Algorithm for Reconstructing Galactic Collisions. *MNRAS*, 413, 2860–2872 (2011)
- Bauer, J. M., et al., including **Meech, K. J.**, **Pittichova, J.**, **Tholen, D. J.** *WISE/NEOWISE* Observations of Comet 103P/Hartley 2. *ApJ*, 738, 171 (2011)
- Beaumont, C. N.**, **Williams, J. P.**, & Goodman, A. A. Classifying Structures in the Interstellar Medium with Support Vector Machines: The G16.05-0.57 Supernova Remnant. *ApJ*, 741, 14 (2011)
- Belton, M. J. S., **Meech, K. J.**, Chesley, S., **Pittichová, J.**, et al., including **Hsieh, H.**, **Kadooka, M. A.**, **Kaluna, H.**, **Keane, J.**, **Kleyna, J.**, **Riesen, T.**, **Sarid, G.**, **Sonnett, S.**, **Yang, B.**, **Zenn, T.** *Stardust-NExT*, *Deep Impact*, and the Accelerating Spin of 9P/Tempel 1. *Icarus*, 213, 345–368 (2011)
- Bennett, C. J.**, Hama, T., Kim, Y. S., Kawasaki, M., & **Kaiser, R. I.** Laboratory Studies on the Formation of Formic Acid (HCOOH) in Interstellar and Cometary Ices. *ApJ*, 727, 27 (2011)
- Billier, B.**, Allers, K., **Liu, M.**, Close, L. M., & **Dupuy, T.** A Keck LGS AO Search for Brown Dwarf and Planetary Mass Companions to Upper Scorpius Brown Dwarfs. *ApJ*, 730, 39 (2011)
- Blank, R., et al., including **Hall, D. N. B.**, **Hodapp, K. W.** The HxRG Family of High Performance Image Sensors for Astronomy. In *ASP Conf. Ser. 437: Solar Polarization 6*, 383–399 (2011)
- Boesgaard, A. M.**, **Rich, J. A.**, **Levesque, E. M.**, & **Bowler, B. P.** Beryllium and Alpha-Element Abundances in a Large Sample of Metal-Poor Stars. *ApJ*, 743, 140 (2011)
- Bonanos, A. Z., Castro, N., Macri, L. M., & **Kudritzki, R.-P.** The Distance to the Massive Eclipsing Binary LMC-SC1-105 in the Large Magellanic Cloud. *ApJ*, 729, L9 (2011)
- Bonifacio, P., et al., including **Kudritzki, R.** GYES, A Multifibre Spectrograph for the CFHT. In *EAS Publ. Ser. 45: GAIA: At the Frontiers of Astrometry*, 219–222 (2011)
- Bowler, B. P.**, **Liu, M. C.**, **Kraus, A. L.**, **Mann, A. W.**, & Ireland, M. J. A Disk around the Planetary-Mass Companion GSC 06214-00210 b: Clues about the Formation of Gas Giants on Wide Orbits. *ApJ*, 743, 148 (2011)
- Bresolin, F.** The Abundance Scatter in M33 from H II Regions: Is There Any Evidence for Azimuthal Metallicity Variations? *ApJ*, 730, 129 (2011)
- Bresolin, F.** Revisiting the Abundance Gradient in the Maser Host Galaxy NGC 4258. *ApJ*, 729, 56 (2011)
- Buat, V., et al., including **Morrison, G.** GOODS-Herschel: Evidence of a UV Extinction Bump in Galaxies at $z \geq 1$.

- A&A, 533, A93 (2011)
- Burgasser, A. J., Cushing, M. C., Kirkpatrick, J. D., Gelino, C. R., Griffith, R. L., **Looper, D. L.**, et al. Fire Spectroscopy of Five Late-type T Dwarfs Discovered with the *Wide-field Infrared Survey Explorer*. *ApJ*, 735, 116 (2011)
- Businger, S.**, & **Cherubini, T.**, eds. Seeing Clearly: The Impact of Atmospheric Turbulence on the Propagation of Extraterrestrial Radiation. College Station, TX: Virtualbookworm.com Publishing. 212 pages. (2011)
- Byhring, H. S., Cranmer, S. R., Lie-Svendsen, Ø., **Habbal, S. R.**, & Esser, R. Modeling Iron Abundance Enhancements in the Slow Solar Wind. *ApJ*, 732, 119 (2011)
- Capak, P., et al., including **Kartaltepe, J.**, **Sanders, D. B.** Spectroscopy of Luminous $z \geq 7$ Galaxy Candidates and Sources of Contamination in $z \geq 7$ Galaxy Searches. *ApJ*, 730, 68 (2011)
- Cappelluti, N., Comastri, A., Nicastro, F., Finoguenov, A., **Hasinger, G.**, Miyaji, T., Kashlinsky, A., & Elvis, M. Study of the Anisotropies of the Unresolved X-ray Background. In *The X-ray Universe 2011*, 50 (slide presentation) (2011)
- Carilli, C. L., Hodge, J., Walter, F., Riechers, D., Daddi, E., Dannerbauer, H., & **Morrison, G. E.** Expanded Very Large Array Observations of a Proto-cluster of Molecular Gas-rich Galaxies at $z = 4.05$. *ApJ*, 739, L33 (2011)
- Carson, J. C., Marengo, M., Patten, B. M., Luhman, K. L., **Sonnett, S. M.**, et al. A *Spitzer* IRAC Imaging Survey for T Dwarf Companions around M, L, and T Dwarfs: Observations, Results, and Monte Carlo Population Analyses. *ApJ*, 743, 141 (2011)
- Casey, C. M.** Seeking Completeness for High- z ULIRGs: From SCUBA to *Herschel*. In *IAU Symp. 277: Tracing the Ancestry of Galaxies*, 142–145 (2011)
- Casey, C. M.**, Chapman, S. C., Smail, I., Alaghband-Zadeh, S., Bothwell, M. S., & Swinbank, A. M. Spectroscopic Characterization of 250- μm -selected Hyper-Luminous Star-Forming Galaxies. *MNRAS*, 411, 2739–2749 (2011)
- Casey, C. M.**, et al. Molecular Gas in Submillimetre-Faint, Star-Forming Ultraluminous Galaxies at $z > 1$. *MNRAS*, 415, 2723–2743 (2011)
- Castro, N., Herrero, A., **Urbaneja, M. A.**, Garcia, M., & Simon-Diaz, S. Characterization of Massive Blue Stars in NGC 55. In *Highlights of Spanish Astrophysics VI*, 530–530 (2011)
- Chávez, R., Terlevich, R., Terlevich, E., **Bresolin, F.**, Melnick, J., Plionis, M., & Basilakos, S. Constraining the Dark Energy Equation of State Using Alternative Cosmic Tracers. *Rev. Mexicana Astron. Astrofis. Conf. Ser.*, 40, 9–10 (2011)
- Chaudhary, P., Brusa, M., **Hasinger, G.**, Merloni, A., & Comastri, A. Rest-frame Stacking of 2XMM Catalog Sources: Fe K Line Properties. In *The X-ray Universe 2011*, 194 (poster) (2011)
- Chen, C.-C.**, **Cowie, L. L.**, Wang, W.-H., **Barger, A. J.**, & **Williams, J. P.** Submillimeter Sources behind the Massive Lensing Clusters A370 and A2390. *ApJ*, 733, 64 (2011)
- Cherubini, T.**, **Businger, S.** & **Lyman, R.** An Operational Perspective for Modeling Optical Turbulence. In *Seeing Clearly: The Impact of Atmospheric Turbulence on the Propagation of Extraterrestrial Radiation*, ed. S. Businger & T. Cherubini. College Station, TX: Virtualbookworm.com Publishing, pp. 165–182 (2011)
- Chiar, J. E., et al., including **Keane, J. V.** Ices in the Quiescent IC 5146 Dense Cloud. *ApJ*, 731, 9 (2011)
- Chiboucas, K., **Tully, R. B.**, et al. UCDs in the Coma Cluster. In *EAS Publ. Ser. 48: A Universe of Dwarf Galaxies*, 225–230 (2011)
- Chiboucas, K., **Tully, R. B.**, et al. Ultra-compact Dwarfs in the Coma Cluster. *ApJ*, 737, 86 (2011)
- Chomiuk, L., et al., including **Tonry, J. L.**, **Burgett, W. S.**, **Chambers, K. C.**, **Flewelling, H.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Magnier, E. A.**, **Morgan, J. S.**, **Waincoat, R. J.** Pan-STARRS1 Discovery of Two Ultraluminous Supernovae at $z \approx 0.9$. *ApJ*, 743, 114 (2011)
- Chornock, R., et al., including **Stockton, A.** The Transitional Stripped-Envelope SN 2008ax: Spectral Evolution and Evidence for Large Asphericity. *ApJ*, 739, 41 (2011)
- Chun, M.**, et al. An Introduction to Measurements with Standard Optical Turbulence Profilers. In *Seeing Clearly: The Impact of Atmospheric Turbulence on the Propagation of Extraterrestrial Radiation*, ed. S. Businger & T. Cherubini. College Station, TX: Virtualbookworm.com Publishing, pp. 63–87 (2011)
- Cieza, L. A.**, et al. *Herschel* Observations of the T Cha Transition Disk: Constraining the Outer Disk Properties. *ApJ*, 741, L25 (2011)
- Courtois, H. M.**, **Tully, R. B.**, & Héraudeau, P. Cosmic Flows: University of Hawaii 2.2-m *I*-Band Photometry. *MNRAS*, 415, 1935–1942 (2011)
- Courtois, H. M.**, **Tully, R. B.**, Makarov, D. I., Mitronova, S., Koribalski, B., Karachentsev, I. D., & Fisher, J. R. Cosmic Flows: Green Bank Telescope and Parkes H I Observations. *MNRAS*, 414, 2005–2016 (2011)
- Covey, K. R., et al., including **Rayner, J.** PTF10nvg: An Outbursting Class I Protostar in the Pelican/North American Nebula. *AJ*, 141, 40 (2011)
- Cowie, L. L.**, **Barger, A. J.**, & **Hu, E. M.** $\text{Ly}\alpha$ Emitting Galaxies as Early Stages in Galaxy Formation. *ApJ*, 738, 136 (2011)
- Cowie, L. L.**, **Hu, E. M.**, & **Songaila, A.** The UV-Continuum Properties of $\text{Ly}\alpha$ -selected Galaxies at $z = 6.5$. *ApJ*, 735, L38 (2011)

- Crockett, R. M., et al., including **Hall, D. N. B.** Anatomy of a Post-starburst Minor Merger: A Multi-wavelength WFC3 Study of NGC 4150. *ApJ*, 727, 115 (2011)
- Dalle Ore, C. M., et al., including **Owen, T.** Organic Materials in Planetary and Protoplanetary Systems: Nature or Nurture? *A&A*, 533, A98 (2011)
- Das, P., Gerhard, O., **Mendez, R. H., Teodorescu, A. M., & de Lorenzi, F.** Using NMAGIC to Probe the Dark Matter Halo and Orbital Structure of the X-ray Bright, Massive Elliptical Galaxy, NGC 4649. *MNRAS*, 415, 1244–1258 (2011)
- Deacon, N. R., Liu, M. C., Magnier, E. A., Bowler, B. P., Goldman, B., Redstone, J. A., Burgett, W. S., Chambers, K. C., Flewelling, H., Kaiser, N., Lupton, R. H., Morgan, J. S., Price, P. A., Sweeney, W. E., Tonry, J. L., Wainscoat, R. J., & Waters, C.** Four New T Dwarfs Identified in Pan-STARRS 1 Commissioning Data. *AJ*, 142, 77 (2011)
- de Filippis, E., Paolillo, M., Longo, G., La Barbera, F., de Carvalho, R. R., & **Gal, R.** The Luminosity Function of the NoSOCS Galaxy Cluster Sample. *MNRAS*, 414, 2771–2784 (2011)
- De Marchi, G., et al., including **Hall, D. N. B.** Star Formation in 30 Doradus. *ApJ*, 739, 27 (2011)
- DeMeo, F. E., Carry, B., Marchis, F., Birlan, M., Binzel, R. P., **Bus, S. J.**, et al. A Spectral Comparison of (379) Huenna and Its Satellite. *Icarus*, 212, 677–681 (2011)
- Dhital, S., Burgasser, A. J., **Looper, D. L.**, & Stassun, K. G. Resolved Spectroscopy of M Dwarf/L Dwarf Binaries. IV. Discovery of AN M9 + L6 Binary Separated by Over 100 AU. *AJ*, 141, 7 (2011)
- Díaz-Santos, T., et al., including **Sanders, D. B.** The Spatial Extent of (U)LIRGS in the Mid-infrared. II. Feature Emission. *ApJ*, 741, 32 (2011)
- Dixon, T. G., & Joseph, R. D.** The Starburst-Active-Galactic-Nucleus Connection: A Spitzer Search for Active Galactic Nuclei in Infrared-selected Starburst Galaxies. *ApJ*, 740, 99 (2011)
- Dopita, M. A., Armus, L., Kewley, L. J., Rich, J. A., Sanders, D.**, et al. Modeling IR Spectral Energy Distributions: A Pilot Study of Starburst Parameters and Silicate Absorption Curves for Some GOALS Galaxies. *Ap&SS*, 333, 225–239 (2011)
- Downs, C., Roussev, I. I., van der Holst, B., Lugaz, N., Sokolov, I. V., & Gombosi, T. I.** Studying Extreme Ultraviolet Wave Transients with a Digital Laboratory: Direct Comparison of Extreme Ultraviolet Wave Observations to Global Magnetohydrodynamic Simulations. *ApJ*, 728, 2 (2011)
- Dragomir, D., Kane, S. R., Pilyavsky, G., Mahadevan, S., Ciardi, D. R., **Gazak, J. Z.**, et al. TERMS Photometry of Known Transiting Exoplanets. *AJ*, 142, 115 (2011)
- Drake, A. J., et al., including **Kewley, L.** The Discovery and Nature of the Optical Transient CSS100217:102913+404220. *ApJ*, 735, 106 (2011)
- Druckmüllerová, H., **Morgan, H., & Habbal, S. R.** Enhancing Coronal Structures with the Fourier Normalizing-radial-graded Filter. *ApJ*, 737, 88 (2011)
- Dupuy, T. J., & **Liu, M. C.** On the Distribution of Orbital Eccentricities for Very Low-Mass Binaries. *ApJ*, 733, 122 (2011)
- Dupuy, T. J., Liu, M. C., & Ireland, M. J.** Testing Substellar Models with Dynamical Mass Measurements. In EPJ Web of Conferences 16: Research, Science and Technology of Brown Dwarfs and Exoplanets: Proc. International Conference Held in Shanghai on Occasion of a Total Eclipse of the Sun, 04004 (2011)
- Ehlert, S., et al., including **Ebeling, H.** Extreme Active Galactic Nucleus Feedback and Cool-Core Destruction in the X-ray Luminous Galaxy Cluster MACS J1931.8-2634. *MNRAS*, 411, 1641–1658 (2011)
- Elbaz, D., et al., including **Morrison, G. E.** GOODS-Herschel: An Infrared Main Sequence for Star-Forming Galaxies. *A&A*, 533, A119 (2011)
- Ennis, C., **Bennett, C. J., Jones, B. M., & Kaiser, R. I.** Formation of D₂-water and D₂-Carbonic Acid in Oxygen-rich Solar System Ices via D⁺₂ Irradiation. *ApJ*, 733, 79 (2011)
- Ennis, C. P., **Bennett, C. J., & Kaiser, R. I.** On the Formation of Ozone in Oxygen-Rich Solar System Ices via Ionizing Radiation. *Phys. Chem. Chem. Phys.*, 13, 9469–9482 (2011)
- Evans, C. J., Davies, B., **Kudritzki, R.-P.**, et al. Stellar Metallicities beyond the Local Group: The Potential of *J*-Band Spectroscopy with Extremely Large Telescopes. *A&A*, 527, A50 (2011)
- Evans, N. L., **Bennett, C. J., Ullrich, S., & Kaiser, R. I.** On the Interaction of Adenine with Ionizing Radiation: Mechanical Studies and Astrobiological Implications. *ApJ*, 730, 69 (2011)
- Faherty, J. K., Burgasser, A. J., Bochanski, J. J., **Looper, D. L.**, West, A. A., & van der Bliik, N. S. Identification of a Wide, Low-Mass Multiple System Containing the Brown Dwarf 2MASS J0850359+105716. *AJ*, 141, 71 (2011)
- Fedele, D., Pascucci, I., Brittain, S., Kamp, I., Woitke, P., **Williams, J. P., Dent, W. R. F., & Thi, W.-F.** Water Depletion in the Disk Atmosphere of Herbig AeBe Stars. *ApJ*, 732, 106 (2011)
- Finkelstein, S. L., et al., including **Hall, D. N. B., Luppino, G.** *Hubble Space Telescope* Imaging of Ly α Emission at $z \approx 4.4$. *ApJ*, 735, 5 (2011)
- Foley, R. J., Berger, E., Fox, O., **Levesque, E. M., Challis, P. J., Ivans, I. I., Rhoads, J. E., & Soderberg, A. M.** The Diversity of Massive Star Outbursts. I. Observations of

- SN2009ip, UGC 2773 OT2009-1, and Their Progenitors. *ApJ*, 732, 32 (2011)
- Fotopoulou, S., Georgantopoulos, I., **Hasinger, G.**, Salvato, M., Brusa, M., Akylas, A., & Georgakakis, A. The Ultra Hard X-ray Luminosity Function of AGN. In *The X-ray Universe 2011*, 71 (slide presentation) (2011)
- Froebrich, D., et al., including **Hodapp, K. W.**, **Aspin, C.** UWISH2 - the UKIRT Widefield Infrared Survey for H₂. *MNRAS*, 413, 480–492 (2011)
- Fry, J. N., Colombi, S., Fosalba, P., Balaraman, A., **Szapudi, I.**, & Teyssier, R. Cell Count Moments in the Halo Model. *MNRAS*, 415, 153–167 (2011)
- Fu, H., Zhang, Z.-Y., Assef, R. J., **Stockton, A.**, et al. A Kiloparsec-scale Binary Active Galactic Nucleus Confirmed by the Expanded Very Large Array. *ApJ*, 740, L44 (2011)
- Fukagawa, M., et al., including **Hodapp, K. W.** High-Contrast Polarimetric Imaging of the Protoplanetary Disk around AB Aurigae. In *IAU Symp. 276: The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, 420–421 (2011)
- Fulton, B. J., Shporer, A., Winn, J. N., Holman, M. J., Pál, A., & **Gazak, J. Z.** Long-term Transit Timing Monitoring and Refined Light Curve Parameters of HAT-P-13b. *AJ*, 142, 84 (2011)
- Geißler, K., Metchev, S., Kirkpatrick, J. D., Berriman, G. B., & **Looper, D.** A Cross-Match of 2MASS and SDSS. II. Peculiar L Dwarfs, Unresolved Binaries, and the Space Density of T Dwarf Secondaries. *ApJ*, 732, 56 (2011)
- Ginsburg, A., Bally, J., & **Williams, J. P.** JCMT HARP CO 3-2 Observations of Molecular Outflows in W5. *MNRAS*, 418, 2121–2144 (2011)
- Glass, L., et al., including **Tonry, J. L.** The ACS Fornax Cluster Survey. IV. Deprojection of the Surface Brightness Profiles of Early-type Galaxies in the Virgo and Fornax Clusters: Investigating the “Core/Power-law Dichotomy.” *ApJ*, 726, 31 (2011)
- Goddard, Q. E., **Bresolin, F.**, Kennicutt, R. C., Ryan-Weber, E. V., & Rosales-Ortega, F. F. On the Nature of the H II Regions in the Extended Ultraviolet Disc of NGC 4625. *MNRAS*, 412, 1246–1258 (2011)
- Goto, T.**, Utsumi, Y., Hattori, T., Miyazaki, S., & Yamauchi, C. A Gunn-Peterson Test with a QSO at $z = 6.4$. *MNRAS*, 415, L1–L5 (2011)
- Goto, T.**, et al., including **Treister, E.** Luminosity Functions of Local Infrared Galaxies with AKARI: Implications for the Cosmic Star Formation History and AGN Evolution. *MNRAS*, 410, 573–584 (2011)
- Goto, T.**, et al., including **Sanders, D. B.** Infrared Luminosity Functions of AKARI Sloan Digital Sky Survey Galaxies. *MNRAS*, 414, 1903–1913 (2011)
- Gowanlock, M. G.**, Patton, D. R., & McConnell, S. M. A Model of Habitability within the Milky Way Galaxy. *Astrobiology*, 11, 855–873 (2011)
- Grav, T., **Jedicke, R.**, **Denneau, L.**, Chesley, S., Holman, M. J., & Spahr, T. B. The Pan-STARRS Synthetic Solar System Model: A Tool for Testing and Efficiency Determination of the Moving Object Processing System. *PASP*, 123, 423–447 (2011)
- Gulbis, A. A. S., **Bus, S. J.**, Elliot, J. L., **Rayner, J. T.**, **Stahlberger, W. E.**, Rojas, F. E., Adams, E. R., Person, M. J., **Chung, R.**, **Tokunaga, A. T.**, & Zuluaga, C. A. First Results from the MIT Optical Rapid Imaging System (MORIS) on the IRTF: A Stellar Occultation by Pluto and a Transit by Exoplanet XO-2b. *PASP*, 123, 461–469 (2011)
- Haan, S., et al., including **Sanders, D. B.** The Nuclear Structure in Nearby Luminous Infrared Galaxies: *Hubble Space Telescope* NICMOS Imaging of the GOALS Sample. *AJ*, 141, 100 (2011)
- Habbal, S. R.**, Druckmüller, M., **Morgan, H.**, et al. Thermodynamics of the Solar Corona and Evolution of the Solar Magnetic Field as Inferred from the Total Solar Eclipse Observations of 2010 July 11. *ApJ*, 734, 120 (2011)
- Habbal, S. R.**, **Morgan, H.**, & Druckmüller, M. A New View of Coronal Structures: Implications for the Source and Acceleration of the Solar Wind. In *First Asia-Pacific Solar Physics Meeting*, ASI Conf. Ser., 2011, Vol. 2, 259–269 (2011)
- Haghighipour, N.** Exoplanets. *Meteoritics Planetary Sci.*, 46, 1617–1618 (2011)
- Haghighipour, N.** Super-Earths: A New Class of Planetary Bodies. *J. Contemporary Physics*, 52, 403–441 (2011)
- Haghighipour, N.**, & Kirste, S. On the Detection of (Habitable) Super-Earths around Low-Mass Stars Using Kepler and Transit Timing Variation Method. *Celes. Mech. Dynam. Astron.*, 111, 267–284 (2011)
- Haghighipour, N.**, & Rastegar, S. Implications of the TTV-Detection of Close-in Terrestrial Planets around M stars for Their Origin and Dynamical Evolution. In *EPJ Web of Conferences 11: Detection and Dynamics of Transiting Exoplanets*, St. Michel l’Observatoire, France, 04004 (2011)
- Haghighipour, N.**, & Scott, E. The Effect of Giant Planet Formation on the Origin and Scattering of Iron Meteorites Parent Bodies. *LPI Contributions*, 1639, 9124 (2011)
- Hallis, L. J.**, & **Taylor, G. J.** Comparisons of the Four Miller Range Nakhilites, MIL 03346, 090030, 090032 and 090136: Textural and Compositional Observations of Primary and Secondary Mineral Assemblages. *Meteoritics Planetary Sci.*, 46, 1787–1803 (2011)
- Hallis, L. J.**, & **Taylor, G. J.** Hydrogen Isotopes in the Nakhilites: Magmatic and Atmospheric Martian Reservoirs vs. Terrestrial Contamination. *Meteoritics and Planetary Science Supplement*, 74, 5210 (2011)

- Harrington, D. M., & Kuhn, J. R.** Precision and Resolution in Stellar Spectropolarimetry. In ASP Conf. Ser. 437: Solar Polarization 6, 257–264 (2011)
- Harrington, D. M., Kuhn, J. R., & Hall, S.** Deriving Telescope Mueller Matrices Using Daytime Sky Polarization Observations. PASP, 123, 799–811 (2011)
- Hart, M., **Jefferies, S., Hope, D.,** et al. Multiframe Blind Deconvolution for Imaging in Daylight and Strong Turbulence Conditions. Proc. SPIE, 8165, 81650L (2011)
- Hashimoto, J., et al., including **Hodapp, K.** Direct Imaging of Fine Structures in Giant Planet-forming Regions of the Protoplanetary Disk around AB Aurigae. ApJ, 729, L17 (2011)
- Heldmann, J. L., et al., including **Rayner, J. T.** LCROSS (Lunar Crater Observation and Sensing Satellite) Observation Campaign: Strategies, Implementation, and Lessons Learned. Space Sci. Rev., doi:10.1007/s11214-011-9759-y (2011)
- Herrero, A., et al., including **Urbaneja, M. A.** Are the Stellar Winds in IC 1613 Stronger than Expected? In IAU Symp. 272: Active OB Stars: Structure, Evolution, Mass Loss, and Critical Limits, 292–293 (2011)
- Hinkley, S., Carpenter, J. M., Ireland, M. J., & **Kraus, A. L.** Observational Constraints on Companions Inside of 10 AU in the HR 8799 Planetary System. ApJ, 730, L21 (2011)
- Hong, S., et al., including **Hall, D.** Large-scale Shock-ionized and Photoionized Gas in M83: The Impact of Star Formation. ApJ, 731, 45 (2011)
- Hope, D., & Jefferies, S.** Multi-frame Blind Deconvolution: Compact and Multi-channel Versions. In Proc. Advanced Maui Optical and Space Surveillance Technologies Conference 2011 (CD) E39 (2011)
- Hope, D. A., & Jefferies, S. M.** Compact Multiframe Blind Deconvolution. Optics Letters, 36, 867–869 (2011)
- Hsieh, H. H.,** Ishiguro, M., Lacerda, P., & Jewitt, D. Physical Properties of Main-Belt Comet 176P/LINEAR. AJ, 142, 29 (2011)
- Hsieh, H. H., Meech, K. J., & Pittichová, J.** Main-Belt Comet 238P/Read Revisited. ApJ, 736, L18 (2011)
- Huélamo, N., Lacour, S., Tuthill, P., Ireland, M., **Kraus, A.,** & Chauvin, G. A Companion Candidate in the Gap of the T Chamaeleontis Transitional Disk. A&A, 528, L7 (2011)
- Hughes, A. M., Wilner, D. J., Andrews, S. M., **Williams, J. P.,** Su, K. Y. L., Murray-Clay, R. A., & Qi, C. Resolved Submillimeter Observations of the HR 8799 and HD 107146 Debris Disks. ApJ, 740, 38 (2011)
- Ireland, M. J., **Kraus, A.,** Martinache, F., Law, N., & Hillenbrand, L. A. Two Wide Planetary-Mass Companions to Solar-type Stars in Upper Scorpius. ApJ, 726, 113 (2011)
- Ishiguro, M., Ham, J.-B., **Tholen, D. J., Elliott, G. T., Micheli, M.,** et al. Search for the Comet Activity of 107P/(4015) Wilson-Harrington during 2009/2010 Apparition. ApJ, 726, 101 (2011)
- Ishiguro, M., et al., including **Hsieh, H. H.** Interpretation of (596) Scheila’s Triple Dust Tails. ApJ, 741, L24 (2011)
- Ishiguro, M., et al., including **Hsieh, H. H.** Observational Evidence for an Impact on the Main-Belt Asteroid (596) Scheila. ApJ, 740, L11 (2011)
- Iwasawa, K., **Sanders, D. B.,** Teng, S. H., **U, V.,** et al. C-GOALS: Chandra Observations of a Complete Sample of Luminous Infrared Galaxies from the IRAS Revised Bright Galaxy Survey. A&A, 529, A106 (2011)
- Iwasawa, K., et al., including **Sanders, D. B., U, V.** The Location of an Active Nucleus and a Shadow of a Tidal Tail in the ULIRG Mrk 273. A&A, 528, A137 (2011)
- Jacobs, B. A., Sanders, D. B., Rupke, D. S. N.,** et al., including **Kartaltepe, J. S., Le Floch, E.** Identification of a Complete 160 μm Flux-limited Sample of Infrared Galaxies in the ISO Lockman Hole 1 deg² Deep Fields: Source Properties and Evidence for Strong Evolution in the FIR Luminosity Function for ULIRGs. AJ, 141, 110 (2011)
- Jacobs, B. A., Tully, R. B.,** Rizzi, L., Karachentsev, I. D., Chiboucas, K., & Held, E. V. The Star Formation History of Isolated Dwarf UGC 4879. In EAS Publ. Ser. 48: A Universe of Dwarf Galaxies, 67–68 (2011)
- Jacobs, B. A., Tully, R. B.,** Rizzi, L., Karachentsev, I. D., Chiboucas, K., & Held, E. V. The Star Formation History of Isolated Dwarf UGC 4879. AJ, 141, 106 (2011)
- Jaeggli, S. A., Lin, H.,** & Uitenbroek, H. Molecule Formation and Magnetic Field Evolution in Sunspots. In ASP Conf. Ser. 437: Solar Polarization 6, 473–481 (2011)
- Janson, M., et al., including **Hodapp, K. W.** Near-Infrared Multi-band Photometry of the Substellar Companion GJ 758 B. ApJ, 728, 85 (2011)
- Jefferies, S.,** Hart, M., **Hope, D.,** et al. Multi-Frame Myopic Deconvolution for Imaging in Daylight and Strong Turbulence Conditions. In Proc. Advanced Maui Optical and Space Surveillance Technologies Conference 2011 (CD) E40 (2011)
- Jefferies, S. M.,** & Hart, M. Deconvolution from Wave Front Sensing Using the Frozen Flow Hypothesis. Optics Express, 19, 1975–1984 (2011)
- Jim, K., Wolfshagen, R., Gibson, B., Pier, E., **Hodapp, K., & Onaka, P.** The HANDS-IONS Daytime Camera for GEO Satellite Characterization. In Proc. Advanced Maui Optical and Space Surveillance Technologies Conference 2011 (CD) E20 (2011)
- Johnson, J. A., Apps, K., **Gazak, J. Z.,** et al. LHS 6343 C: A Transiting Field Brown Dwarf Discovered by the Kepler Mission. ApJ, 730, 79 (2011)
- Johnson, J. A., Clanton, C., Howard, A. W., **Bowler, B. P.,** et al. Retired A Stars and Their Companions. VII. 18 New Jovian Planets. ApJS, 197, 26 (2011)

- Johnson, J. A., Payne, M., Howard, A. W., Clubb, K. I., Ford, E. B., **Bowler, B. P.**, et al. Retired A Stars and Their Companions. VI. A Pair of Interacting Exoplanet Pairs Around the Subgiants 24 Sextanis and HD 200964. *AJ*, 141, 16 (2011)
- Jones, B. M., Bennett, C. J., & Kaiser, R. I.** Mechanistical Studies on the Production of Formamide (H_2NCHO) within Interstellar Ice Analogs. *ApJ*, 734, 78 (2011)
- Jones, B. M., Zhang, F., Kaiser, R. I.**, et al. Formation of Benzene in the Interstellar Medium. *Proc. National Acad. Sci.*, 108, 452–457 (2011)
- Joseph, R. D.** Review: How Old is the Universe?, by David A. Weintraub. *Contemporary Physics*, 52, 631–632 (2011)
- Karachentsev, I. D., Nasonova, O. G., & **Courtois, H. M.** Fast Motions of Galaxies in the Coma I Cloud: A Case of Dark Attractor? *ApJ*, 743, 123 (2011)
- Kashlinsky, A., Atrio-Barandela, F., & **Ebeling, H.** Measuring the Dark Flow with Public X-ray Cluster Data. *ApJ*, 732, 1 (2011)
- Kayi, H., **Kaiser, R. I.** & Head, J. D. A Computational Study on the Structures of Methylamine–Carbon Dioxide–Water Clusters: Evidence for the Barrier Free Formation of the Methylcarbamic Acid Zwitterion ($\text{CH}_3\text{NH}_2^+\text{COO}^-$) in Interstellar Water Ices. *Phys. Chem. Chem. Phys.*, 13, 11083–11098 (2011)
- Kazarovets, E. V., **Reipurth, B.**, & Samus, N. N. GCVS Names for Interesting Young Variable Stars. *Peremennye Zvezdy*, 31, no. 2 (2011)
- Kiely, C., **Greenberg, G.**, & Kiely, C. J. A New Look at Lunar Soil Collected from the Sea of Tranquility during the Apollo 11 Mission. *Microsc. Microanal.*, 17, 34–48 (2011)
- Kim, Y. S., & **Kaiser, R. I.** On the Formation of Amines (RNH_2) and the Cyanide Anion (CN^-) in Electron-Irradiated Ammonia-Hydrocarbon Interstellar Model Ices. *ApJ*, 729, 68 (2011)
- Kim, Y. S., Zhang, F., & **Kaiser, R. I.** Laboratory Simulation of Kuiper Belt Object Volatile Ices under Ionizing Radiation: CON_2 Ices as a Case Study. *Phys. Chem. Chem. Phys.*, 13, 15766–15773 (2011)
- Kocevski, D. D., Lemaux, B. C., Lubin, L. M., **Gal, R.**, et al. Obscured Starburst Activity in High-Redshift Clusters and Groups. *ApJ*, 736, 38 (2011)
- Kocevski, D. D., Lemaux, B. C., Lubin, L. M., Shapley, A. E., **Gal, R. R.**, & Squires, G. K. The Origin of [O II] Emission in Recently Quenched Active Galactic Nucleus Hosts. *ApJ*, 737, L38 (2011)
- Koenigsberger, G., Moreno, E., & **Harrington, D. M.** Line Profile Variability and Tidal Flows in Eccentric Binaries. In *IAU Symp. 272: Active OB Stars: Structure, Evolution, Mass Loss, and Critical Limits*, 513–514 (2011)
- Koss, M.**, et al., including **Treister, E., Sanders, D. B.** Chandra Discovery of a Binary Active Galactic Nucleus in Mrk 739. *ApJ*, 735, L42 (2011)
- Koss, M.**, et al. Host Galaxy Properties of the Swift Bat Ultra Hard X-Ray Selected Active Galactic Nucleus. *ApJ*, 739, 57 (2011)
- Kraus, A. L.**, Ireland, M. J., Martinache, F., & Hillenbrand, L. A. Mapping the Shores of the Brown Dwarf Desert. II. Multiple Star Formation in Taurus-Auriga. *ApJ*, 731, 8 (2011)
- Kraus, A. L.**, Tucker, R. A., Thompson, M. I., Craine, E. R., & Hillenbrand, L. A. The Mass-Radius(-Rotation?) Relation for Low-Mass Stars. *ApJ*, 728, 48 (2011)
- Krot, A., et al., including **Hallis, L.** Origin of Ferroan Olivine in Matrices of Unequilibrated Chondrites. *Meteoritics Planetary Sci. Suppl.*, 74, 5412 (2011)
- Kuhn, J. R., Geiss, B., & Harrington, D. M.** Using Absorptive Linear Polarization Spectroscopy to Understand Imbedded Stars. In *ASP Conf. Ser. 437: Solar Polarization 6*, 245–255 (2011)
- Kuhn, J. R., Harrington, D. M., Lin, H.**, Berdyugina, S. V., Trujillo-Bueno, J., Keil, S. L., & Rimmele, T. Solar Polarization Workshop 6. *ASP Conf. Ser. 437*. 512 pp. (2011)
- Lara, L. M., Lin, Z.-Y., & **Meech, K.** Comet 103P/Hartley 2 at Perihelion: Gas and Dust Activity. *A&A*, 532, A87 (2011)
- Lee, N., Williams, J. P., & Cieza, L. A.** Protoplanetary Disk Masses in IC348: A Rapid Decline in the Population of Small Dust Grains after 1 Myr. *ApJ*, 736, 135 (2011)
- Li, W., et al., including **Stockton, A., Shih, H.-Y.**, Exclusion of a Luminous Red Giant as a Companion Star to the Progenitor of Supernova SN 2011fe. *Nature*, 480, 348–350 (2011)
- Liu, M. C., Deacon, N. R., Magnier, E. A., Dupuy, T. J., Aller, K. M., Bowler, B. P.**, et al., including **Burgett, W. S., Chambers, K. C., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Morgan, J. S., Tonry, J. L., Wainscoat, R. J.** A Search for High Proper Motion T Dwarfs with PAN-STARRS1 + 2MASS + WISE. *ApJ*, 740, L32 (2011)
- Liu, M. C., Delorme, P., Dupuy, T. J., Bowler, B. P.**, et al. CFBDSIR J1458+1013B: A Very Cold ($>T_{10}$) Brown Dwarf in a Binary System. *ApJ*, 740, 108 (2011)
- Lugaz, N., Downs, C., Shibata, K., Roussev, I. I., Asai, A., & Gombosi, T. I.** Numerical Investigation of a Coronal Mass Ejection from an Anemone Active Region: Reconnection and Deflection of the 2005 August 22 Eruption. *ApJ*, 738, 127 (2011)
- Lugaz, N., & Roussev, I. I.** Numerical Modeling of Interplanetary Coronal Mass Ejections and Comparison with Heliospheric Images. *J. Atmospheric and Solar-Terrestrial Physics*, 73, 1187–1200 (2011)

- Lugaz, N., Roussev, I. I., & Gombosi, T. I.** Determining CME Parameters by Fitting Heliospheric Observations: Numerical Investigation of the Accuracy of the Methods. *Adv. Space Res.*, 48, 292–299 (2011)
- Lusso, E., Comastri, A., Vignali, C., Zamorani, G., **Treister, E., Sanders, D.**, et al. The Bolometric Output and Host-Galaxy Properties of Obscured AGN in the XMM-COSMOS Survey. *A&A*, 534, A110 (2011)
- Ma, C.-J., & Ebeling, H.** The Morphology-Density Relation of Galaxies around MACS J0717.5+3745. *MNRAS*, 410, 2593–2601 (2011)
- Magdis, G. E., et al., including **Morrison, G.** GOODS-Herschel: A Population of 24 μm Dropout Sources at $z < 2$. *A&A*, 534, A15 (2011)
- Mainzer, A., Grav, T., Masiero, J., Hand, E., Bauer, J., **Tholen, D.**, et al. NEOWISE Studies of Spectrophotometrically Classified Asteroids: Preliminary Results. *ApJ*, 741, 90 (2011)
- Mainzer, A., et al., including **Jedicke, R., Tholen, D., Elliott, G., Micheli, M.** Preliminary Results from NEOWISE: An Enhancement to the Wide-Field Infrared Survey Explorer for Solar System Science. *ApJ*, 731, 53 (2011)
- Mainzer, A., et al., including **Tholen, D. J., Jedicke, R., Denneau, L.** NEOWISE Observations of Near-Earth Objects: Preliminary Results. *ApJ*, 743, 156 (2011)
- Mann, A. W.**, Gaidos, E., & Aldering, G. Ground-Based Submillimagnitude CCD Photometry of Bright Stars Using Snapshot Observations. *PASP*, 123, 1273–1289 (2011)
- Marn, C., **Wainscoat, R.**, & Fayos-Solá, E. ‘Windows to the Universe’—Starlight, Dark-Sky Areas and Observatory Sites. In *Heritage Sites of Astronomy and Archaeoastronomy in the Context of the UNESCO World Heritage Convention*, ed. C. Ruggles & M. Cotte. (Paris: IAU), 256–258
- Masiero, J. R., et al., including **Tholen, D.** Main Belt Asteroids with WISE/NEOWISE. I. Preliminary Albedos and Diameters. *ApJ*, 741, 68 (2011)
- Matsubayashi, K., Yagi, M., **Goto, T.**, Akita, A., Sugai, H., Kawai, A., Shimono, A., & Hattori, T. Spatially Resolved Spectroscopic Observations of a Possible E+A Progenitor: SDSS J160241.00+521426.9. *ApJ*, 729, 29 (2011)
- Mayne, R. G., Sunshine, J. M., McSween, H. Y., **Bus, S. J.**, & McCoy, T. J. The Origin of Vesta’s Crust: Insights from Spectroscopy of the Vestoids. *Icarus*, 214, 147–160 (2011)
- McDonald, M., Courteau, S., **Tully, R. B.**, & Roediger, J. A Survey of 286 Virgo Cluster Galaxies at Optical *griz* and Near-IR *H* Band: Surface Brightness Profiles and Bulge-Disk Decompositions. *MNRAS*, 414, 2055–2068 (2011)
- Meech, K. J., Pittichová, J., Yang, B., Zenn, A.**, et al., including **Hsieh, H., Kadooka, M. A., Kaluna, H., Keane, J., Kleyna, J., Raja, N. S., Riesen, T., Sarid, G., Sonnett, S.** Deep Impact, Stardust-NEXT and the Behavior of Comet 9P/Tempel 1 from 1997 to 2010. *Icarus*, 213, 323–344 (2011)
- Meech, K. J.**, et al., including **Hsieh, H. H., Kaluna, H. M., Keane, J. V., Kleyna, J., Pittichová, J., Riesen, T. E., Sarid, G., Sonnett, S., Yang, B., Zenn, T.** EPOXI: Comet 103P/Hartley 2 Observations from a Worldwide Campaign. *ApJ*, 734, L1 (2011)
- Mei, S., et al., including **Tonry, J. L., Tully, R. B.** The Next Generation Virgo Cluster Survey: Status and First Results. SF2A-2011: Proc. Annual Meeting of the French Society of Astronomy and Astrophysics, 153–156 (2011)
- Meng, K., Pan, J., **Szapudi, I.**, & Feng, L. A Redshift-Distortion-Free Correlation Function at Third Order in the Non-Linear Regime. *MNRAS*, 413, 1700–1708 (2011)
- Mesa-Delgado, A.**, Núñez-Díaz, M., Esteban, C., López-Martín, L., & García-Rojas, J. Integral Field Spectroscopy of Selected Areas of the Bright Bar and Orion-S Cloud in the Orion Nebula. *MNRAS*, 417, 420–433 (2011)
- Meschiari, S., Laughlin, G., Vogt, S. S., Butler, R. P., Rivera, E. J., **Haghighipour, N.**, & Jalowiczor, P. The Lick-Carnegie Survey: Four New Exoplanet Candidates. *ApJ*, 727, 117 (2011)
- Messineo, M., Davies, B., Figer, D. F., **Kudritzki, R. P.**, Valenti, E., Trombly, C., Najarro, F., & Rich, R. M. Massive Stars in the Cl 1813-178 Cluster: An Episode of Massive Star Formation in the W33 Complex. *ApJ*, 733, 41 (2011)
- Modjaz, M., **Kewley, L.**, Bloom, J. S., Filippenko, A. V., Perley, D., & Silverman, J. M. Progenitor Diagnostics for Stripped Core-Collapse Supernovae: Measured Metallicities at Explosion Sites. *ApJ*, 731, L4 (2011)
- Moreno, E., Koenigsberger, G., & **Harrington, D. M.** Eccentric Binaries. Tidal flows and Periastron Events. *A&A*, 528, A48 (2011)
- Morgan, H.** Longitudinal Drifts of Streamers across the Heliospheric Current Sheet. *ApJ*, 738, 190 (2011)
- Morgan, H.** The Rotation of the White Light Solar Corona at Height 4 R_{\odot} from 1996 to 2010: A Tomographical Study of Large Angle and Spectrometric Coronagraph C2 Observations. *ApJ*, 738, 189 (2011)
- Möstl, C., Rollett, T., **Lugaz, N.**, et al. Arrival Time Calculation for Interplanetary Coronal Mass Ejections with Circular Fronts and Application to STEREO Observations of the 2009 February 13 Eruption. *ApJ*, 741, 34 (2011)
- Mumma, M. J., et al., including **Keane, J. V., Meech, K. J.** Temporal and Spatial Aspects of Gas Release during the 2010 Apparition of Comet 103P/Hartley 2. *ApJ*, 734, L7 (2011)

- Narayan, G., et al., including **Burgett, W. S., Chambers, K. C., Flewelling, H. A., Gates, G., Kaiser, N., Magner, E. A., Morgan, J. S., Price, P. A., Sweeney, W. E., Tonry, J. L., Wainscoat, R. J., Waters, C.** Displaying the Heterogeneity of the SN 2002cx-like Subclass of Type Ia Supernovae with Observations of the Pan-STARRS-1 Discovered SN 2009ku. *ApJ*, 731, L11 (2011)
- Neuhäuser, R., et al., including **Kellerer, A.** The Young Exoplanet Transit Initiative (YETI). *Astronomische Nachrichten*, 332, 547–561 (2011)
- Neyrinck, M. C., **Szapudi, I.**, & Szalay, A. S. Rejuvenating Power Spectra. II. The Gaussianized Galaxy Density Field. *ApJ*, 731, 116 (2011)
- Oliviero, M., Severino, G., Berrilli, F., Moretti, P. F., & **Jefferies, S. M.** The Intensity Effect in Magneto-Optical Filters. *Proc. SPIE*, 8148, 81480V (2011)
- Orellana, M., **Cieza, L. A.**, Schreiber, M. R., Merín, B., **Williams, J. P.**, & Romero, G. A. Imaging of the Dust Gap into the Transitional Disk RXJ1633.9-2242 (Oph 32). *Rev. Mexicana Astron. Astrofis. Conf. Ser.*, 40, 294–294 (2011)
- Orton, G. S., et al., including **Golisch, W.** The Atmospheric Influence, Size and Possible Asteroidal Nature of the July 2009 Jupiter Impactor. *Icarus*, 211, 587–602 (2011)
- Oshagh, M., **Haghighipour, N.**, & Santos, N. C. A Survey of M Stars in the Field of View of Kepler Space Telescope. In *IAU Symp. 276, The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, 448–449 (2011)
- Oszkiewicz, D. A., Muinonen, K., Virtanen, J., **Granvik, M.** & Pieniluoma, T. Inverse Methods for Asteroid Orbit Computation. In *EAS Publ. Ser. 45: GAIA: At the Frontiers of Astrometry*, 231–236 (2011)
- Pandian, J. D.**, Momjian, E., Xu, Y., Menten, K. M., & Goldsmith, P. F. The Arecibo Methanol Maser Galactic Plane Survey. IV. Accurate Astrometry and Source Morphologies. *ApJ*, 730, 55 (2011)
- Pápai, P., Szapudi, I., & Granett, B. R.** Integrated Sachs-Wolfe Imprint of Superstructures on Linear Scales. *ApJ*, 732, 27 (2011)
- Peña, M., Stasinska, G., **Bresolin, F.**, & Tsamis, Y. Chemical Abundances in PNe in the Spiral NGC 300. *Rev. Mexicana Astron. Astrofis. Conf. Ser.*, 40, 177–178 (2011)
- Peng, E. W., et al., including **Tully, B.** The *HST*/ACS Coma Cluster Survey. IV. Intergalactic Globular Clusters and the Massive Globular Cluster System at the Core of the Coma Galaxy Cluster. *ApJ*, 730, 23 (2011)
- Peterson, D. E., et al., including **Cieza, L. A.** The Spitzer Survey of Interstellar Clouds in the Gould Belt. III. A Multi-wavelength View of Corona Australis. *ApJS*, 194, 43 (2011)
- Petric, A. O., et al., including **Sanders, D., U, V.** Mid-Infrared Spectral Diagnostics of Luminous Infrared Galaxies. *ApJ*, 730, 28 (2011)
- Philip, G. K., & Freeland, S. J.** Did Evolution Select a Non-random “Alphabet” of Amino Acids? *Astrobiology*, 11, 235–240 (2011)
- Pignata, G., et al., including **Levesque, E. M.** SN 2009bb: A Peculiar Broad-lined Type Ic Supernova. *ApJ*, 728, 14 (2011)
- Pinfield, D. J., et al., including **Liu, M. C., Deacon, N. R., Dupuy, T.** Understanding Sub-Stellar Populations Using Wide-Field Infrared Surveys. In *EPJ Web of Conferences 16: Research, Science and Technology of Brown Dwarfs and Exoplanets: Proc. International Conference Held in Shanghai on Occasion of a Total Eclipse of the Sun*, 06002 (2011)
- Plionis, M., Terlevich, R., Basilakos, S., **Bresolin, F.**, Terlevich, E., Melnick, J., & Chavez, R. A Strategy to Measure the Dark Energy Equation of State Using the H II Galaxy Hubble Function and X-ray Active Galactic Nuclei Clustering: Preliminary Results. *MNRAS*, 416, 2981–2996 (2011)
- Podio, L., Eislöffel, J., Melnikov, S., **Hodapp, K. W.**, & Bacciotti, F. Tracing Kinematical and Physical Asymmetries in the Jet from DG Tauri B. *A&A*, 527, A13 (2011)
- Raga, A. C., **Reipurth, B.**, Cantó, J., Sierra-Flores, M. M., & Guzmán, M. V. An Overview of the Observational and Theoretical Studies of HH 1 and 2. *Rev. Mexicana Astron. Astrofis.*, 47, 425–437 (2011)
- Rapetti, D., Allen, S. W., Mantz, A., & **Ebeling, H.** Testing General Relativity on Cosmic Scales with the Observed Abundance of Massive Clusters. *Progress of Theoretical Physics Supplement*, 190, 179–187 (2011)
- Ricci, L., Mann, R. K., Testi, L., **Williams, J. P.**, Isella, A., Robberto, M., Natta, A., & Brooks, K. J. The (Sub-)millimeter SED of Protoplanetary Disks in the Outskirts of the Orion Nebula Cluster. *A&A*, 525, A81 (2011)
- Ricci, L., Testi, L., **Williams, J. P.**, Mann, R. K., & Birnstiel, T. The mm-Colors of a Young Binary Disk System in the Orion Nebula Cluster. *ApJ*, 739, L8 (2011)
- Rich, J. A., Kewley, L. J., & Dopita, M. A.** Galaxy-wide Shocks in Late-Merger Stage Luminous Infrared Galaxies. *ApJ*, 734, 87 (2011)
- Richard, J., Kneib, J.-P., **Ebeling, H.**, Stark, D. P., Egami, E., & Fiedler, A. K. Discovery of a Possibly Old Galaxy at $z = 6.027$, Multiply Imaged by the Massive Cluster Abell 383. *MNRAS*, 414, L31–L35 (2011)
- Riguccini, et al., including **Sanders, D.** Dust-Obscured Star Formation and the Contribution of Galaxies Escaping UV/Optical Color Selections at $z \sim 2$. *A&A*, 534, A81 (2011)
- Rivkin, A. S., Clark, B. E., Ockert-Bell, M., **Volquardsen, E.**, Howell, E. S., **Bus, S. J.**, Thomas, C. A., & Shepard, M. Asteroid 21 Lutetia at 3 μm : Observations with IRTF SpeX. *Icarus*, 216, 62–68 (2011)

- Romero, G. A., Schreiber, M. R., **Cieza, L. A.**, Rebassamansergas, A., **Williams, J. P.**, Merin, B., Smith-Castelli, A., & Orellana, M. Transition Circumstellar Disks in Lupus. *Rev. Mexicana Astron. Astrofis. Conf. Ser.*, 40, 253–254 (2011)
- Salvato, M., Ilbert, O., **Hasinger, G.**, et al., including **Sanders, D. B.** Dissecting Photometric Redshift for Active Galactic Nucleus Using XMM- and Chandra-COSMOS Samples. *ApJ*, 742, 61 (2011)
- Sánchez-Lavega, A., et al., including **Golisch, W.**, **Griep, D.**, **Sears, P.**, **Volquardsen, E.** Long-term Evolution of the Aerosol Debris Cloud Produced by the 2009 Impact on Jupiter. *Icarus*, 214, 462–476 (2011)
- Sánchez-Monge, Á., **Pandian, J. D.**, & Kurtz, S. Searching for New Hypercompact H II Regions. *ApJ*, 739, L9 (2011)
- Sanders, D. B.** Summary and Concluding Remarks. In *ASP Conf. Ser. 446: Galaxy Evolution: Infrared to Millimeter Wavelength Perspective*, 411–422 (2011)
- Schad, T. A., **Jaeggli, S. A.**, **Lin, H.**, & Penn, M. J. Spectropolarimetry of Chromospheric Magnetic and Velocity Structure Above Active Regions. In *ASP Conf. Ser. 437: Solar Polarization 6*, 483–490 (2011)
- Schawinski, K., **Treister, E.**, Urry, C. M., Cardamone, C. N., Simmons, B., & Yi, S. K. *HST* WFC3/IR Observations of Active Galactic Nucleus Host Galaxies at $z \sim 2$: Supermassive Black Holes Grow in Disk Galaxies. *ApJ*, 727, L31 (2011)
- Schneider, M. D., Cole, S., Frenk, C. S., & **Szapudi, I.** Fast Generation of Ensembles of Cosmological N -body Simulations Via Mode Resampling. *ApJ*, 737, 11 (2011)
- Scholl, I. F.**, **Kuhn, J. R.**, Bush, R. I., & Emilio, M. Extreme Limb Polarization Measurement From HMI: A Progress Report. In *ASP Conf. Ser. 437: Solar Polarization 6*, 201–204 (2011)
- Schörghofer, N.** Constraints on Martian Climate History from Icy Impact Craters. In *Fourth international Workshop on the Mars Atmosphere: Modelling and Observation*, 431–434 (2011)
- Schorghofer, N.**, & King, C. M. Sporadic Formation of Slope Streaks on Mars. *Icarus*, 216, 159–168 (2011)
- Schuler, S. C., Cunha, K., Smith, V. V., Ghezzi, L., King, J. R., Deliyannis, C. P., & **Boesgaard, A. M.** Detailed Abundances of the Solar Twins 16 Cygni A and B: Constraining Planet Formation Models. *ApJ*, 737, L32 (2011)
- Schwarz, R., **Haghighipour, N.**, Eggl, S., Pilat-Lohinger, E., & Funk, B. Prospects of the Detection of Circumbinary Planets with Kepler and CoRoT Using the Variations of Eclipse Timing. *MNRAS*, 414, 2763–2770 (2011)
- Sedgwick, C., Serjeant, S., Pearson, C., Matsuura, S., Shirahata, M., Oyabu, S., **Goto, T.**, et al. Far-Infrared Luminosity Function of Local Star-Forming Galaxies in the AKARI Deep Field-South. *MNRAS*, 416, 1862–1870 (2011)
- Shih, H.-Y.**, & **Stockton, A.** Imaging of Three Possible Low-redshift Analogs to High-Redshift Compact Red Galaxies. *ApJ*, 733, 45 (2011)
- Shim, H., Iet al., including **Goto, T.** Merging Galaxy Cluster A2255 in Mid-infrared. *ApJ*, 727, 14 (2011)
- Shkolnik, E. L., **Liu, M. C.**, Reid, I. N., **Dupuy, T.**, & Weinberger, A. J. Searching for Young M Dwarfs with GALEX. *ApJ*, 727, 6 (2011)
- Simmons, B. D., Van Duyne, J., Urry, C. M., **Treister, E.**, Koekemoer, A. M., Grogan, N. A., & GOODS Team. Obscured GOODS Active Galactic Nuclei and Their Host Galaxies at $z < 1.25$: The Slow Black Hole Growth Phase. *ApJ*, 734, 121 (2011)
- Skidmore, W., Riddle, R., Schöck, M., Travouillon, T., Els, S., Walker, D., & **Magnier, E.** All Sky Camera Observations of Cloud and Light Pollution at Thirty Meter Telescope Candidate Sites. *Rev. Mexicana Astron. Astrofis. Conf. Ser.*, 41, 70–73 (2011)
- Smolčić, V., et al., including **Kartaltepe, J.**, **LeFloc’h, E.**, **Sanders, D. B.** The Redshift and Nature of AzTEC/COSMOS 1: A Starburst Galaxy at $z = 4.6$. *ApJ*, 731, L27 (2011)
- Soares-Santos, M., de Carvalho, R. R., Annis, J., **Gal, R. R.**, et al. The Voronoi Tessellation Cluster Finder in 2+1 Dimensions. *ApJ*, 727, 45 (2011)
- Socas-Navarro, H., Elmore, D., Asensio Ramos, A., & **Harrington, D. M.** Characterization of Telescope Polarization Properties across the Visible and Near-Infrared Spectrum. Case Study: The Dunn Solar Telescope. *A&A*, 531, A2 (2011)
- Sonnott, S.**, **Kleyna, J.**, **Jedicke, R.**, & Masiero, J. Limits on the Size and Orbit Distribution of Main Belt Comets. *Icarus*, 215, 534–546 (2011)
- Spezzi, L., et al., including **Cieza, L. A.** The Spitzer Survey of Interstellar Clouds in the Gould Belt. IV. Lupus V and VI Observed with IRAC and MIPS. *ApJ*, 730, 65 (2011)
- Spezzi, L., et al., including **Hall, D. N. B.** Detection of Brown Dwarf Like Objects in the Core of NGC 3603. *ApJ*, 731, 1 (2011)
- Stangalini, M., Del Moro, D., Berrilli, F., & **Jefferies, S. M.** MHD Wave Transmission in the Sun’s Atmosphere. *A&A*, 534, A65 (2011)
- Stangalini, M., Moretti, P. F., Berrilli, F., Del Moro, D., **Jefferies, S. M.**, Severino, G., & Oliviero, M. DIMMI-2h a MOF-based Instrument for Solar Satellite ADAHELI. *Proc. SPIE*, 8148, 81480U (2011)
- Stencel, R. E., et al., including **Rayner, J.**, **Bus, S.**, **Tokunaga, A.** Infrared Studies of Epsilon Aurigae in Eclipse. *AJ*, 142, 174 (2011)
- Straughn, A. N., et al., including **Hall, D. N. B.** *Hubble Space Telescope* WFC3 Early Release Science: Emission-line

- Galaxies from Infrared Grism Observations. *AJ*, 141, 14 (2011)
- Swinbank, A. M., et al., including **Ebeling, H.** The Interstellar Medium in Distant Star-forming Galaxies: Turbulent Pressure, Fragmentation, and Cloud Scaling Relations in a Dense Gas Disk at $z = 2.3$. *ApJ*, 742, 11 (2011)
- Swindle, R., Gal, R. R.,** La Barbera, F., & de Carvalho, R. R. SPIDER. V. Measuring Systematic Effects in Early-type Galaxy Stellar Masses from Photometric Spectral Energy Distribution Fitting. *AJ*, 142, 118 (2011)
- Tanaka, I., et al., including **Stockton, A.** Discovery of an Excess of $H\alpha$ Emitters around 4C 23.56 at $z = 2.48$. *PASJ*, 63, S415–S435 (2011)
- Teodorescu, A. M., Méndez, R. H.,** Bernardi, F., Thomas, J., Das, P., & Gerhard, O. Planetary Nebulae in the Elliptical Galaxy NGC 4649 (M 60): Kinematics and Distance Redetermination. *ApJ*, 736, 65 (2011)
- Teodoro, L. F. A., Elphic, R. C., Eke, V. R., Siegler, M., & **Schorghofer, N.** Constraining Models of Water Migration in the Lunar Subsurface. *LPI Contributions*, 1621, 65 (2011)
- Thalmann, C., et al., including **Hodapp, K. W.** Images of the Extended Outer Regions of the Debris Ring around HR 4796 A. *ApJ*, 743, L6 (2011)
- Thöne, C. C., et al., including **Levesque, E. M.** Variable $Ly\alpha$ Sheds Light on the Environment Surrounding GRB 090426. *MNRAS*, 414, 479–488 (2011)
- Tian, H., McIntosh, S. W., **Habbal, S. R.,** & He, J. Observation of High-speed Outflow on Plume-like Structures of the Quiet Sun and Coronal Holes with Solar Dynamics Observatory/Atmospheric Imaging Assembly. *ApJ*, 736, 130 (2011)
- Tokovinin, A., & **Businger, S.** Introduction to Adaptive Optics: The Quest for Image Quality. In *Seeing Clearly: The Impact of Atmospheric Turbulence on the Propagation of Extraterrestrial Radiation*, ed. S. Businger & T. Cherubini. College Station, TX: Virtualbookworm.com Publishing, pp. 103–113
- Tonry, J. L.** An Early Warning System for Asteroid Impact. *PASP*, 123, 58–73 (2011)
- Treister, E.,** Schawinski, K., Volonteri, M., Natarajan, P., & Gawiser, E. Black Hole Growth in the Early Universe Is Self-Regulated and Largely Hidden from View. *Nature*, 474, 356–358 (2011)
- Trouille, L., **Barger, A. J.,** & Tremonti, C. The OPTX Project. V. Identifying Distant Active Galactic Nuclei. *ApJ*, 742, 46 (2011)
- Tully, R. B.** The Luminosity Function in Groups of Galaxies. In *EAS Publ. Ser. 48: A Universe of Dwarf Galaxies*, 281–288 (2011)
- U, V.,** Wang, Z., **Sanders, D.,** et al., including **Kewley, L.** High-Resolution Mapping of CO(3-2) in NGC 6240. In *ASP Conf. Ser. 446: Galaxy Evolution: Infrared to Millimeter Wavelength Perspective*, 97–102 (2011)
- Urbaneja, M. A.,** Herrero, A., Lennon, D. J., Corral, L. J., & Meynet, G. Blue Luminous Stars in Nearby Galaxies—UIT 005: A Possible Link to the Luminous Blue Variable Stage. *ApJ*, 735, 39 (2011)
- Van Dyk, S. D., Li, W., Cenko, S. B., Kasliwal, M. M., Horesh, A., Ofek, E. O., **Kraus, A. L.,** et al. The Progenitor of Supernova 2011dh/PTF11eon in Messier 51. *ApJ*, 741, L28 (2011)
- Vasconcellos, E. C., de Carvalho, R. R., **Gal, R. R.,** LaBarbera, F. L., Capelato, H. V., Frago Campos Velho, H., Trevisan, M., & Ruiz, R. S. R. Decision Tree Classifiers for Star/Galaxy Separation. *AJ*, 141, 189 (2011)
- Vorontsov, S. V., Strakhov, V. N., **Jefferies, S. M.,** & Borelli, K. J. Deconvolution of Astronomical Images Using SOR with Adaptive Relaxation. *Optics Express*, 19, 13509–13524 (2011)
- Wahhaj, Z., Liu, M. C., Biller, B. A.,** et al., including **Dupuy, T., Chun, M., Ftaclas, C.** The Gemini NICI Planet-Finding Campaign: Discovery of a Substellar L Dwarf Companion to the Nearby Young M Dwarf CD-35 2722. *ApJ*, 729, 139 (2011)
- Wainscoat, R. J.** The Magnificent Night Sky: Why It Must Be Protected from Light Pollution. In *IAU Symp. 260: The Role of Astronomy in Society and Culture*, 442–448 (2011)
- Walter, M., Baross, J., Coustenis, A., Horner, J., Kress, M., **Meech, K.,** Perez-Mercader, J., & Woolf, N. Message from the Executive Council of the Astrobiology Society: The First Year. *Astrobiology*, 11, 75–75 (2011)
- Wang, W.-H., **Cowie, L. L., Barger, A. J., & Williams, J. P.** SMA Observations of GOODS 850-11 and GOODS 850-13: First Examples of Multiple Submillimeter Sources Resolved by an Interferometer. *ApJ*, 726, L18 (2011)
- Wang, X., Neyrinck, M., **Szapudi, I.,** Szalay, A., Chen, X., Lesgourgues, J., Riotta, A., & Sloth, M. Perturbation Theory of the Cosmological Log-Density Field. *ApJ*, 735, 32 (2011)
- Whitmore, B. C., et al., including **Hall, D. N. B.** Using $H\alpha$ Morphology and Surface Brightness Fluctuations to Age-Date Star Clusters in M83. *ApJ*, 729, 78 (2011)
- Williams, J. P.** Astronomical Evidence for the Rapid Growth of Millimeter Sized Particles in Protoplanetary Disks. *LPI Contributions*, 1639, 9041 (2011)
- Williams, J. P., & Cieza, L. A.** Protoplanetary Disks and Their Evolution. *ARA&A*, 49, 67–117 (2011)
- Willman, M., & Jedicke, R.** Asteroid age Distributions Determined by Space Weathering and Collisional Evolution Models. *Icarus*, 211, 504–510 (2011)
- Windhorst, R. A., et al., including **Hall, D. N. B.** The *Hubble Space Telescope* Wide Field Camera 3 Early Release Sci-

- ence Data: Panchromatic Faint Object Counts for 0.2–2 μm Wavelength. *ApJS*, 193, 27 (2011)
- Wissman, B. D., **McKay-Jones, L. C.**, & Binder, P.-M. Entropy Rate Estimates from Mutual Information. *Phys. Rev. E*, 84, 046204 (2011)
- Yamaguchi, T., Yoshikawa, M., Yagi, M., & **Tholen, D. J.** Entry Dispersion Analysis for the HAYABUSA Spacecraft Using Ground-Based Optical Observation. *PASJ*, 63, 979–985 (2011)
- Yang, B., & Hsieh, H.** Near-Infrared Observations of Comet-like Asteroid (596) Scheila. *ApJ*, 737, L39 (2011)
- Yang, B., & Jewitt, D.** A Near-Infrared Search for Silicates in Jovian Trojan Asteroids. *AJ*, 141, 95 (2011)
- Yuan, T.-T., Kewley, L. J.,** Swinbank, A. M., Richard, J., & Livermore, R. C. Metallicity Gradient of a Lensed Face-on Spiral Galaxy at Redshift 1.49. *ApJ*, 732, L14 (2011)
- Zahid, H. J., & Bresolin, F.** Reexamination of the Radial Abundance Gradient Break in NGC 3359. *AJ*, 141, 192 (2011)
- Zahid, H. J., Kewley, L. J., & Bresolin, F.** The Mass-Metallicity and Luminosity-Metallicity Relations from DEEP2 at $z \sim 0.8$. *ApJ*, 730, 137 (2011)
- Zhang, S. B., Yang, J., Xu, Y., **Pandian, J. D.,** Menten, K. M., & Henkel, C. Early Phase of Massive Star Formation: A Case Study of the Infrared Dark Cloud G084.81-01.09. *ApJS*, 193, 10 (2011)
- Zheng, W., Kim, Y. S., & **Kaiser, R. I.** Formation of Nitric Oxide and Nitrous Oxide in Electron-Irradiated H_2 $^{18}\text{O}/\text{N}_2$ Ice Mixtures—Evidence for the Existence of Free Oxygen Atoms in Interstellar and Solar System Analog Ices. *Phys. Chem. Chem. Phys.*, 13, 15749–15754 (2011)