

GEMINI TELESCOPES (NOAO SYSTEM SCIENCE CENTER)

During FY12 (Oct. 2011–Sept. 2012), 94 publications used data taken at the Gemini telescopes:

Alaghband-Zadeh, S., et al. 2012, MNRAS, 424, 2232, “Integral Field Spectroscopy of  $2.0 < z < 2.7$  Submillimetre Galaxies: Gas Morphologies and Kinematics”

Arnold, T.J., Eisner, J.A., Monnier, J.D., Tuthill, P. 2012, ApJ, 750, 119, “New Spatially Resolved Mid-infrared Observations of the Transitional Disk TW Hya and Tentative Evidence for a Self-Luminous Companion”

Barone-Nugent, R.L., et al. 2012, MNRAS, 425, 1007, “Near-infrared Observations of Type Ia Supernovae: the Best Known Standard Candle for Cosmology”

Bayliss, M.B. 2012, ApJ, 744, 156, “Broadband Photometry of 105 Giant Arcs: Redshift Constraints and Implications for Giant Arc Statistics”

Bazin, G., et al. 2011, A&A, 534, A43, “Photometric Selection of Type Ia Supernovae in the Supernova Legacy Survey”

Beck, T.L., et al. 2012, ApJ, 754, 72, “Circumbinary Gas Accretion Onto a Central Binary: Infrared Molecular Hydrogen Emission from GG Tau A”

Beichman, C.A., et al. 2011, ApJ, 743, 85, “Multi-epoch Observations of HD 69830: High-Resolution Spectroscopy and Limits to Variability”

Bell, E., Slater, C.T., Martin, N.F. 2011, ApJ, 742, L15, “Andromeda XXIX: A New Dwarf Spheroidal Galaxy 200 kpc from Andromeda”

Berger, E., et al. 2011, ApJ, 743, 204, “The Spectroscopic Classification and Explosion Properties of SN 2009nz Associated with GRB 091127 at  $z = 0.490$ ”

Berger, E., et al. 2012, ApJ, 755, L29, “Ultraluminous Supernovae as a New Probe of the Interstellar Medium in Distant Galaxies”

Bianco, F.B., et al. 2011, ApJ, 741, 20, “Constraining Type Ia Supernovae Progenitors from Three Years of Supernova Legacy Survey Data”

Bilíková, J., et al. 2012, ApJS, 200, 3, “Spitzer Search for Dust Disks around Central Stars of Planetary Nebulae”

Brinkworth, C.S., et al. 2012, ApJ, 750, 86, “A Spitzer Space Telescope Study of the Debris Disks around Four SDSS White Dwarfs”

Buckley-Geer, E.J., ... **Smith, R.C.**, et al. 2011, ApJ, 742, 48, “The Serendipitous Observation of a Gravitationally Lensed Galaxy at  $z = 0.9057$  from the Blanco Cosmology Survey: The Elliot Arc”

Bussmann, R.S., **Dey, A.**, ... **Jannuzi, B.T.**, et al. 2012, ApJ, 744, 150, “The Star Formation Histories of  $z \sim 2$  Dust-Obscured Galaxies and Submillimeter-Selected Galaxies”

Cano, Z., et al. 2011, ApJ, 740, 41, “XRF 100316D/SN 2010bh and the Nature of Gamma-ray Burst Supernovae”

Capelo, H.L., et al. 2012, ApJ, 757, L18, “Locating the Trailing Edge of the Circumbinary Ring in the KH 15D System”

Casassus, S., et al. 2012, ApJ, 754, L31, “The Dynamically Disrupted Gap in HD 142527”

Chomiuk, L., et al. 2011, ApJ, 743, 114, “Pan-STARRS1 Discovery of Two Ultraluminous Supernovae at  $z \approx 0.9$ ”

Churcher, L.J., et al. 2011, MNRAS, 417, 1715, “Multiwavelength Modelling of the  $\beta$  Leo Debris Disc: One, Two, or Three Planetesimal Populations?”

Clayton, G.C., et al. 2011, ApJ, 743, 44, “The Circumstellar Environment of R Coronae Borealis: White Dwarf Merger or Final-Helium-Shell Flash?”

Close, L.M., et al. 2012, ApJ, 749, 180, “High-Resolution Images of Orbital Motion in the Orion Trapezium Cluster with the LBT AO System”

Corsi, A., et al. 2011, ApJ, 741, 76, “PTF 10bzf (SN 2010ah): A Broad-Line Ic Supernova Discovered by the Palomar Transient Factory”

Cucchiara, A., et al. 2011, ApJ, 743, 154, “Constraining Gamma-ray Burst Emission Physics with Extensive Early-Time, Multiband Follow-Up”

D’Andrea, C.B., et al. 2011, ApJ, 743, 172, “Spectroscopic Properties of Star-Forming Host Galaxies and Type Ia Supernova Hubble Residuals in a Nearly Unbiased Sample”

Damjanov, I., et al. 2011, ApJ, 739, L44, “Red Nuggets at High Redshift: Structural Evolution of Quiescent Galaxies over 10 Gyr of Cosmic History”

De Buizer, J.M., Bartkiewicz, A., Szymczak, M. 2012, ApJ, 754, 149, “Testing the Hypothesis that Methanol Maser Rings Trace Circumstellar Disks: High-Resolution Near-Infrared and Mid-infrared Imaging”

De Rosa, R.J., et al. 2012, MNRAS, 422, 2765, “The Volume-Limited A-Star (VAST) Survey–II. Orbital Motion Monitoring of A-Type Star Multiples”

Dufour, P., et al. 2012, ApJ, 749, 6, “Detailed Compositional Analysis of the Heavily Polluted DBZ White Dwarf SDSS J073842.56+183509.06: A Window on Planet Formation?”

Dupree, A.K., ... **Schuler, S.C.**, et al. 2012, ApJ, 750, 73, “TW Hya: Spectral Variability, X-rays, and Accretion Diagnostics”

Fabbri, J., et al. 2011, MNRAS, 418, 1285, “The Effects of Dust on the Optical and Infrared Evolution of SN 2004et”

Fong, W., et al. 2012, ApJ, 756, 189, “A Jet Break in the X-ray Light Curve of Short GRB 111020A: Implications for Energetics and Rates”

Fraser, M., et al. 2011, MNRAS, 417, 1417, “SN 2009md: Another Faint Supernova from a Low-Mass Progenitor”

Gallagher, J.S., et al. 2012, ApJ, 753, 109, “Optical and Infrared Analysis of Type II SN 2006bc”

Georgiev, I.Y., Goudfrooij, P., Puzia, T.H. 2012, MNRAS, 420, 1317, “New Insights into the Star Formation Histories of Candidate Intermediate-Age Early-Type Galaxies from K'-band Imaging of Globular Clusters”

Gonzalez, A.H., ... **Dey, A.**, et al. 2012, ApJ, 753, 163, “IDCS J1426.5+3508: Cosmological Implications of a Massive, Strong Lensing Cluster at  $z = 1.75$ ”

Grützbauch, R., Bauer, A.E., Jørgensen, I., Varela, J. 2012, MNRAS, 423, 3652, “Suppression of Star Formation in the Central 200 kpc of a  $z = 1.4$  Galaxy Cluster”

Guidorzi, C., et al. 2011, MNRAS, 417, 2124, “A Faint Optical Flash in Dust-Obscured GRB 080603A: Implications for GRB Prompt Emission Mechanisms”

Hainaut, O.R., et al. 2012, A&A, 537, A69, “P/2010 A2 Linear. I. An Impact in the Asteroid Main Belt”

Hsieh, H.H., et al. 2012, ApJ, 748, L15, “Discovery of Main-Belt Comet P/2006 VW<sub>139</sub> by Pan-Starrs1”

Inada, N., et al. 2012, AJ, 143, 119, “The Sloan Digital Sky Survey Quasar Lens Search. V. Final Catalog from the Seventh Data Release”

Indriolo, N., McCall, B.J. 2012, ApJ, 745, 91, “Investigating the Cosmic-Ray Ionization Rate in the Galactic Diffuse Interstellar Medium through Observations of H<sub>3</sub><sup>+</sup>”

Ingleby, L., et al. 2011, ApJ, 743, 105, “Near-Ultraviolet Excess in Slowly Accreting T Tauri Stars: Limits Imposed by Chromospheric Emission”

Jalali, B., et al. 2012, A&A, 538, A19, “A Dynamical N-Body Model for the Central Region of  $\omega$  Centauri”

Janson, M., Bonavita, M., Klahr, H., Lafrenière, D. 2012, ApJ, 745, 4, “How Do Most Planets Form?—Constraints on Disk Instability from Direct Imaging”

Khargharia, J., et al. 2012, ApJ, 744, 183, “PSR J1903+0327: A Unique Millisecond Pulsar with a Main-Sequence Companion Star”

Koss, M., et al. 2012, ApJ, 746, L22, “Understanding Dual Active Galactic Nucleus Activation in the Nearby Universe”

Kwitter, K.B., Lehman, E.M.M., Balick, B., Henry, R.B.C. 2012, ApJ, 753, 12, “Abundances of Planetary Nebulae in the Outer Disk of M31”

Lebreton, J., et al. 2012, A&A, 539, A17, “An Icy Kuiper Belt around the Young Solar-Type Star HD 181327”

Littlejohns, O.M., et al. 2012, MNRAS, 421, 2692, “The Origin of the Early-Time Optical Emission of Swift GRB 080310”

Long, K.S., et al. 2012, ApJ, 756, 18, “Recovery of the Historical SN1957D in X-rays with Chandra”

Mason, R.E., et al. 2012, AJ, 144, 11, “The Nuclear Infrared Emission of Low-Luminosity Active Galactic Nuclei”

McConnell, N.J., ... **Lauer, T.R.**, et al. 2011, Nature, 480, 215, “Two Ten-Billion-Solar Mass Black Holes at the Centres of Giant Elliptical Galaxies”

McConnell, N.J., ... **Lauer, T.R.**, et al. 2012, ApJ, 756, 179, “Dynamical Measurements of Black Hole Masses in Four Brightest Cluster Galaxies at 100 Mpc”

McDonald, M., et al. 2012, Nature, 488, 349, “A Massive, Cooling-Flow-Induced Starburst in the Core of a Luminous Cluster of Galaxies”

Margutti, R., et al. 2012, ApJ, 756, 63, “The Afterglow and Environment of the Short GRB 111117A”

Mehner, A., et al. 2011, ApJ, 740, 80, “Critical Differences and Clues in Eta Car’s 2009 Event”

Mehner, A., et al. 2012, ApJ, 751, 73, “Secular Changes in Eta Carinae’s Wind 1998-2011”

Mehrtens, N., et al. 2012, MNRAS, 423, 1024, “The XMM Cluster Survey: Optical Analysis Methodology and the First Data Release”

Mei, S., et al. 2012, ApJ, 754, 141, “Early-Type Galaxies at  $z = 1.3$ . I. The Lynx Supercluster: Cluster and Groups at  $z = 1.3$ . Morphology and Color-Magnitude Relation”

Melis, C., et al. 2012, Nature, 487, 74, “Rapid Disappearance of a Warm, Dusty Circumstellar Disk”

Mikles, V.J., Hynes, R.I. 2012, ApJ, 750, 132, “Gemini Multi-object Spectrograph Spectroscopy of EXO 0748—676 (=UY Vol) in Outburst”

Miszalski, B., et al. 2012, MNRAS, 423, 934, “IC 4663: The First Unambiguous [WN] Wolf-Rayet Central Star of a Planetary Nebula”

Muzzin, A., et al. 2012, ApJ, 746, 188, “The Gemini Cluster Astrophysics Spectroscopic Survey (GClass): The Role of Environment and Self-Regulation in Galaxy Evolution at  $z \sim 1$ ”

Oguri, M., et al. 2012, MNRAS, 420, 3213, “Combined Strong and Weak Lensing Analysis of 28 Clusters from the Sloan Giant Arcs Survey”

Otsuka, M., et al. 2012, ApJ, 744, 26, “Late-Time Light Curves of the Type II Supernovae: Physical Properties of Supernovae and Their Environment”

Parker, A.H., et al. 2011, ApJ, 743, 1, “Characterization of Seven Ultra-Wide Trans-Neptunian Binaries”

Parrent, J.T., et al. 2012, ApJ, 752, L26, “Analysis of the Early-Type Optical Spectra of SN 2011fe in M101”

Perrett, K., et al. 2012, AJ, 144, 59, “Evolution in the Volumetric Type Ia Supernova Rate from the Supernova Legacy Survey”

Petit, J.-M., et al. 2011, AJ, 142, 131, “The Canada-France Ecliptic Plane Survey—Full Data Release: The Orbital Structure of the Kuiper Belt”

Placco, V.M., et al. 2011, ApJ, 142, 188, “Searches for Metal-Poor Stars from the Hamburg/ESO Survey Using the CH G Band”

Postman, M., **Lauer, T.R.**, et al. 2012, ApJ, 756, 159, “A Brightest Cluster Galaxy with an Extremely Large Flat Core”

Pritzl, B.J., ... **Saha, A.**, et al. 2011, AJ, 142, 198, “Probing the M33 Halo Using RR Lyrae Stars”

Raichoor, A., et al. 2012, ApJ, 745, 130, “Early-Type Galaxies at  $z \sim 1.3$ . IV. Scaling Relations in Different Environments”

Rapoport, S., et al. 2012, ApJ, 754, 139, “Testing Gravitational Lensing as the Source of Enhanced Strong Mg II Absorption toward Gamma-ray Bursts”

Rossi, A., et al. 2012, A&A, 545, A77, “A Deep Search for the Host Galaxies of Gamma-ray Bursts with No Detected Optical Afterglow”

Salyk, C., Blake, G.A., Boogert, A.C.A., Brown, J.M. 2011, ApJ, 743, 112, “CO Rovibrational Emission as a Probe of Inner Disk Structure”

Samra, R.S., et al. 2012, ApJ, 751, L12, “Proper Motions and Internal Dynamics in the Core of the Globular Cluster M71”

Sand, D.J., et al. 2012, ApJ, 746, 163, “The Multi-Epoch Nearby Cluster Survey: Type Ia Supernova Rate Measurement in  $z \sim 0.1$  Clusters and the Late-Time Delay Time Distribution”

Sanders, N.E., et al. 2012, ApJ, 756, 184, “SN 2010ay is a Luminous and Broad-Lined Type Ic Supernova Within a Low-Metallicity Host Galaxy”

Sheppard, S.S., Ragozzine, D., Trujillo, C. 2012, AJ, 143, 58, “2007 TY430: A Cold Classical Kuiper Belt Type Binary in the Plutino Population”

Smith, R., Wyatt, M.C., Haniff, C.A. 2012, MNRAS, 422, 2560, “Resolving the Terrestrial Planet Forming Regions of HD 113766 and HD 172555 with MIDI”

Soria, R., et al. 2012, ApJ, 750, 152, “The Birth of an Ultraluminous X-ray Source in M83”

Sromovsky, L.A., et al. 2012, Icarus, 220, 694, “Post-Equinox Dynamics and Polar Cloud Structure on Uranus”

Sromovsky, L.A., et al. 2012, Icarus, 220, 6, “Episodic Bright and Dark Spots on Uranus”

Steele, M.M., et al. 2011, ApJ, 739, 95, “Velocity Structure and Variability of [OIII] Emission in Black Hole Host Globular Cluster RZ2109”

Stritzinger, M., et al. 2012, ApJ, 756, 173, “Multi-wavelength Observations of the Enduring Type II<sub>n</sub> Supernovae 2005ip and 2006jd”

Sugerman, B.E.K., et al. 2012, ApJ, 749, 170, “Thirty Years of SN 1980K: Evidence for Light Echoes”

Swinbank, A.M., et al. 2012, MNRAS, 420, 672, “From Star-Forming Spirals to Passive Spheroids: Integral Field Spectroscopy of E+A Galaxies”

Tanvir, N.R., et al. 2012, ApJ, 754, 46, “Star Formation in the Early Universe: Beyond the Tip of the Iceberg”

Thöne, C.C., et al. 2011, Nature, 480, 72, “The Unusual  $\gamma$ -ray Burst GRB 101225A from a Helium Star/Neutron Star Merger at Redshift 0.33”

Trichas, M., et al. 2012, ApJS, 200, 17, “The Chandra Multi-wavelength Project: Optical Spectroscopy and the Broadband Spectral Energy Distributions of X-ray-Selected AGNs”

Vachier, F., Berthier, J., Marchis, F. 2012, A&A, 543, A68, “Determination of Binary Asteroid Orbits with a Genetic-Based Algorithm”

Wuyts, E., Rigby, J.R., Sharon, K., Gladders, M.D. 2012, ApJ, 755, 73, “Constraints on the Low-Mass End of the Mass-Metallicity Relation at  $z = 1-2$  From Lensed Galaxies”