

GEMINI TELESCOPES (NOAO SYSTEM SCIENCE CENTER)

During FY11 (Oct. 2010–Sept. 2011), 82 publications used data taken at the Gemini telescopes:

Abia, C., **Cunha, K.**, ... **Smith, V.V.**, et al. 2011, *ApJL*, 737, L8, “The First Fluorine Abundance Determinations in Extragalactic Asymptotic Giant Branch Carbon Stars”

Agüeros, M.A., et al. 2011, *AJ*, 141, 176, “No Confirmed New Isolated Neutron Stars in the SDSS Data Release 4”

Alonso-Herrero, A., et al. 2011, *ApJ*, 736, 82, “Torus and Active Galactic Nucleus Properties of Nearby Seyfert Galaxies: Results from Fitting Infrared Spectral Energy Distributions and Spectroscopy”

Andrews, J.E., et al. 2011, *ApJ*, 731, 47, “Photometric and Spectroscopic Evolution of the IIP SN 2007it TO DAY 944”

Artigau, É., et al. 2011, *AJ*, 141, 202, “Penetrating the Homunculus—Near-Infrared Adaptive Optics Images of Eta Carinae”

Balogh, M.L., et al. 2011, *MNRAS*, 412, 2303, “Direct Observational Evidence for a Large Transient Galaxy Population in Groups at  $0.85 < z < 1$ ”

Barman, T.S., MacIntosh, B., Konopacky, Q.M., Marois, C. 2011, *ApJ*, 733, 65, “Clouds and Chemistry in the Atmosphere of Extrasolar Planet HR8799b”

Bauer, A.E., et al. 2011, *MNRAS*, 411, 2009, “Star Formation in the XMMU J2235.3-2557 Galaxy Cluster at  $z = 1.39$ ”

Bayliss, M.B., et al. 2011, *ApJL*, 727, L26, “The Redshift Distribution of Giant Arcs in the Sloan Giant Arcs Survey”

Bayliss, M.B., et al. 2011, *ApJS*, 193, 8, “Gemini/GMOS Spectroscopy of 26 Strong-Lensing-Selected Galaxy Cluster Cores”

Belton, M.J.S., ... **Lauer, T.R.**, et al. 2011, *Icarus*, 213, 345, “Stardust-NExT, Deep Impact, and the Accelerating Spin of 9P/Tempel 1”

Berger, E. 2010, *ApJ*, 722, 1946, “A Short Gamma-ray Burst “No-Host” Problem? Investigating Large Progenitor Offsets for Short GRBs with Optical Afterglows”

Cenko, S.B., et al. 2011, *ApJ*, 732, 29, “Afterglow Observations of Fermi Large Area Telescope Gamma-ray Bursts and the Emerging Class of Hyper-energetic Events”

Chotard, N., et al. 2011, *A&A*, 529, L4, “The Reddening Law of Type Ia Supernovae: Separating Intrinsic Variability from Dust Using Equivalent Widths”

Christensen, L., et al. 2011, *ApJ*, 727, 73, “A High Signal-To-Noise Ratio Composite Spectrum of Gamma-ray Burst Afterglows”

Crabtree, K.N., et al. 2011, *ApJ*, 729, 15, “On the Ortho:Para Ratio of  $H_3^+$  in Diffuse Molecular Clouds”

Crockett, R.M., et al. 2011, *MNRAS*, 410, 2767, “On the Nature of the Progenitors of Three Type II-P Supernovae: 2004et, 2006my and 2006ov”

Cucchiara, A., et al. 2011, *ApJ*, 736, 7, “A Photometric Redshift of  $z \sim 9.4$  for GRB 090429B”

De Rosa, R.J., et al. 2011, *MNRAS*, 415, 854, “The Volume-Limited A-Star (VAST) Survey–I. Companions and the Unexpected X-ray Detection of B6-A7 Stars”

D’Elia, V., Stratta, G. 2011, *A&A*, 532, 48, “GRB 100614A and GRB 100615A: Two Extremely Dark Gamma-ray Bursts”

Dupree, A.K., Strader, J., Smith, G.H. 2011, *ApJ*, 728, 155, “Direct Evidence for an Enhancement of Helium in Giant Stars in Omega Centauri”

Fadely, R., Keeton, C.R. 2011, *AJ*, 141, 101, “Near-Infrared K and L’ Flux Ratios in Six Lensed Quasars”

Faifer, F.R., et al. 2011, *MNRAS*, 416, 155, “Gemini/GMOS Imaging of Globular Cluster Systems in Five Early-Type Galaxies”

Foley, R.J., et al. 2011, *ApJ*, 732, 32, “The Diversity of Massive Star Outbursts. I. Observations of SN2009ip, UGC 2773 OT2009-1, and Their Progenitors”

Fong, W., et al. 2011, *ApJ*, 730, 26, “The Optical Afterglow and  $z = 0.92$  Early-Type Host Galaxy of the Short GRB 100117A”

Gal-Yam, A., et al. 2011, *ApJ*, 736, 159, “Real-Time Detection and Rapid Multiwavelength Follow-Up Observations of a Highly Subluminous Type II-P Supernova from the Palomar Transient Factory Survey”

Gallerani, S., et al. 2010, *A&A*, 523, A85, “The Extinction Law at High Redshift and its Implications”

Gebhardt, K., ... **Lauer, T.R.**, et al. 2011, *ApJ*, 729, 119, “The Black Hole Mass in M87 from Gemini/NIFS Adaptive Optics Observations”

Gorti, U., Hollenbach, D., **Najita, J.**, Pascucci, I. 2011, *ApJ*, 735, 90, “Emission Lines from the Gas Disk around TW Hydra and the Origin of the Inner Hole”

Guy, J., et al. 2010, *A&A*, 523, A7, “The Supernova Legacy Survey 3-Year Sample: Type Ia Supernovae Photometric Distances and Cosmological Constraints”

Harker, D.E., et al. 2011, *AJ*, 141, 26, “Mid-infrared Spectrophotometric Observations of Fragments B and C of Comet 73P/Schwassmann-Wachmann3”

Helton, L.A., et al. 2010, *AJ*, 140, 1347, “The Dusty Nova V1065 Centauri (Nova Cen 2007): A Spectroscopic Analysis of Abundances and Dust Properties”

Hunt, L., et al. 2011, *ApJL*, 736, L36, “The Extremely Red Host Galaxy of GRB 080207”

Ipatov, S., A’Hearn, M.F. 2011, *MNRAS*, 414, 76, “The Outburst Triggered by the Deep Impact Collision with Comet Tempel 1”

Janson, M., et al. 2011, *ApJ*, 728, 85, “Near-Infrared Multi-band Photometry of the Substellar Companion GJ 758 B”

Jardel, J.R., ... **Lauer, T.R.**, et al. 2011, *ApJ*, 739, 21, “Orbit-Based Dynamical Models of the Sombrero Galaxy (NGC 4594)”

Kasliwal, M.M., et al. 2011, *ApJ*, 735, 94, “Discovery of a New Photometric Sub-class of Faint and Fast Classical Novae”

Kasliwal, M.M., et al. 2011, ApJ, 730, 134, “PTF 10fq: A Luminous Red Nova in the Spiral Galaxy Messier 99”

Kehrig, C., et al. 2011, A&A, 526, A128, “Gemini GMOS Spectroscopy of HeII Nebulae in M 33”

Koester, B.P., et al. 2010, ApJL, 723, L73, “Two Lensed  $z \approx 3$  Lyman Break Galaxies Discovered in the SDSS Giant Arcs Survey”

Leibler, C.N., Berger, E. 2010, ApJ, 725, 1202, “The Stellar Ages and Masses of Short Gamma-ray Burst Host Galaxies: Investigating the Progenitor Delay Time Distribution and the Role of Mass and Star Formation in the Short Gamma-ray Burst Rate”

Levan, A.J., et al. 2011, Science, 333, 199, “An Extremely Luminous Panchromatic Outburst from the Nucleus of a Distant Galaxy”

Maitra, D., Miller, J.M., Markoff, S., King, A. 2011, ApJ, 735, 107, “A Jet Model for the Broadband Spectrum of the Seyfert 1 Galaxy NGC 4051”

Mariñas, N., Telesco, C.M., Fisher, R.S., Packham, C. 2011, ApJ, 737, 57, “High-Resolution Mid-infrared Imaging of the Circumstellar Disks of Herbig Ae/Be Stars”

Matsuoka, Y., et al. 2011, AJ, 142, 64, “1  $\mu\text{m}$  Excess Sources in the UKIDSS. I. Three T Dwarfs in the Sloan Digital Sky Survey Southern Equatorial Stripe”

McCabe, C., et al. 2011, ApJ, 727, 90, “Spatially Resolving the HK Tau B Edge-On Disk from 1.2 to 4.7  $\mu\text{m}$ : A Unique Scattered Light Disk”

McConnell, N.J., ... **Lauer, T.R.**, et al. 2011, ApJ, 728, 100, “The Black Hole Mass in the Brightest Galaxy NGC 6086”

Meech, K.J., et al. 2011, ApJL, 734, L1, “EPOXI: Comet 103P/Hartley 2 Observations from a Worldwide Campaign”

Meech, K.J., ... **Lauer, T.R.**, et al. 2011, Icarus, 213, 323, “Deep Impact, Stardust-NExT and the Behavior of Comet 9P/Tempel 1 from 1997 to 2010”

Mehner, A., Davidson, K., Ferland, G.J. 2011, ApJ, 737, 70, “N II  $\lambda\lambda 5668\text{-}5712$ : A New Class of Spectral Features in Eta Carinae”

Melis, C., et al. 2010, ApJ, 722, 1078, “Echoes of a Decaying Planetary System: The Gaseous and Dusty Disks Surrounding Three White Dwarfs”

Moerchen, M.M., et al. 2011, A&A, 526, A34, “Asymmetric Heating of the HR 4796A Dust Ring Due to Pericenter Glow”

Moerchen, M.M., Telesco, C.M., Packham, C. 2010, ApJ, 723, 1418, “High Spatial Resolution Imaging of Thermal Emission from Debris Disks”

Narayan, G., et al. 2011, ApJL, 731, L11, “Displaying the Heterogeneity of the SN 2002cx-like Subclass of Type Ia Supernovae with Observations of the Pan-STARRS-1 Discovered SN 2009ku”

Nestor, D.B., et al. 2011, MNRAS, 412, 1559, “Large-Scale Outflows from  $z \approx 0.7$  Starburst Galaxies Identified via Ultrastrong Mg II Quasar Absorption Lines”

Orton, G.S., et al. 2011, *Icarus*, 211, 587, “The Atmospheric Influence, Size and Possible Asteroidal Nature of the July 2009 Jupiter Impactor”

Pastorello, A., et al. 2010, *ApJL*, 724, L16, “Ultra-bright Optical Transients are Linked with Type Ic Supernovae”

Raichoor, A., et al. 2011, *ApJ*, 732, 12, “Early-Type Galaxies at  $z \sim 1.3$ . II. Masses and Ages of Early-Type Galaxies in Different Environments and Their Dependence on Stellar Population Model Assumptions”

Ramos Almeida, C., et al. 2011, *ApJ*, 731, 92, “Testing the Unification Model for Active Galactic Nuclei in the Infrared: Are the Obscuring Tori of Type 1 and 2 Seyferts Different?”

Rest, A., et al. 2011, *ApJ*, 732, 2, “On the Interpretation of Supernova Light Echo Profiles and Spectra”

Rest, A., ... **Olsen, K., Matheson, T., Smith, R.C., Walker, A.R.**, et al. 2011, *ApJ*, 729, 88, “Pushing the Boundaries of Conventional Core-Collapse Supernovae: The Extremely Energetic Supernova SN 2003ma”

Rettura, A., et al. 2011, *ApJ*, 732, 94, “Early-Type Galaxies at  $z \sim 1.3$ . III. On the Dependence of Formation Epochs and Star Formation Histories on Stellar Mass and Environment”

Rosero, V., Prato, L., Wasserman, L.H., Rodgers, B. 2011, *AJ*, 141, 13, “Orbital Solutions for Two Young, Low-Mass Spectroscopic Binaries in Ophiuchus”

Rowlinson, A., et al. 2010, *MNRAS*, 409, 531, “The Unusual X-ray Emission of the Short Swift GRB 090515: Evidence for the Formation of a Magnetar?”

Rupke, D.S.N., Veilleux, S. 2011, *ApJL*, 729, L27, “Integral Field Spectroscopy of Massive, Kiloparsec-scale Outflows in the Infrared-Luminous QSO Mrk 231”

Sand, D.J., et al. 2011, *ApJ*, 729, 142, “Intracluster Supernovae in the Multi-epoch Nearby Cluster Survey”

Seth, A.C. 2010, *ApJ*, 725, 670, “Gas Accretion in the M32 Nucleus: Past and Present”

Shih, H.-Y., Rupke, D.S.N. 2010, *ApJ*, 724, 1430, “The Complex Structure of the Multi-phase Galactic Wind in a Starburst Merger”

Skemer, A.J., et al. 2011, *ApJ*, 732, 107, “Evidence against an Edge-On Disk around the Extrasolar Planet, 2MASS 1207 b and a New Thick-Cloud Explanation for Its Underluminosity”

Skemer, A.J., Close, L.M. 2011, *ApJ*, 730, 53, “Sirius B Imaged in the Mid-infrared: No Evidence for a Remnant Planetary System”

Schnorr Müller, A., et al. 2011, *MNRAS*, 413, 149, “Gas Streaming Motions towards the Nucleus of M81”

Sparre, M., et al. 2011, *ApJL*, 735, L24, “Spectroscopic Evidence for SN 2010ma Associated with GRB 101219B”

Starling, R.L.C., et al. 2011, *MNRAS*, 411, 2792, “Discovery of the Nearby Long, Soft GRB 100316D with an Associated Supernova”

- Stelzer, B., Scholz, A., Argifoffi, C., Micela, G. 2010, MNRAS, 408, 1095, "The Enigmatic Young Brown Dwarf Binary FU Tau: Accretion and Activity"
- Tanvir, N.R., et al. 2010, ApJ, 725, 625, "Late-Time Observations of GRB 080319B: Jet Break, Host Galaxy, and Accompanying Supernova"
- Trakhtenbrot, B., Netzer, H., Lira, P., Shemmer, O. 2011, ApJ, 730, 7, "Black Hole Mass and Growth Rate at  $z \simeq 4.8$ : A Short Episode of Fast Growth Followed by Short Duty Cycle Activity"
- Trujillo, C.A., Sheppard, S.S., Schaller, E.L. 2011, ApJ, 730, 105, "A Photometric System for Detection of Water and Methane Ices on Kuiper Belt Objects"
- Volk, K., et al. 2011, ApJ, 735, 127, "Discovery and Analysis of 21  $\mu\text{m}$  Feature Sources in the Magellanic Clouds"
- Williamson, R., et al. 2011, ApJ, 738, 139, "A Sunyaev-Zel'dovich-selected Sample of the Most Massive Galaxy Clusters in the 2500  $\text{deg}^2$  South Pole Telescope Survey"
- Werk, J.K., Putman, M.E., Meurer, G.R., Santiago-Figueroa, N. 2011, ApJ, 735, 71, "Metal Transport to the Gaseous Outskirts of Galaxies"
- Yang, H., Johns-Krull, C.M. 2011, ApJ, 729, 83, "Magnetic Field Measurements of T Tauri Stars in the Orion Nebula Cluster"
- Zauderer, B.A., et al. 2011, Nature, 476, 425, "Birth of a Relativistic Outflow in the Unusual  $\gamma$ -ray Transient Swift J164449.3+573451"