

KPNO Telescopes Publications

FY 2014 (Oct. 1, 2013–Sept. 30, 2014)

During FY14 (Oct. 2013–Sept. 2014), 168 publications used data taken at the KPNO telescopes for which NOAO allocates observing time (Mayall=88; WIYN 0.9m & 3.5m [combined]¹=46; 2.1m=35; Other=21). NOAO Scientific Staff names are in boldface.

Abramson, A., Kenney, J.D.P. 2014, AJ, 147, 63, "Hubble Space Telescope Imaging of Decoupled Dust Clouds in the Ram Pressure Stripped Virgo Spirals NGC 4402 and NGC 4522"

Adams, E.R., et al. 2014, AJ, 148, 55, "De-biased Populations of Kuiper Belt Objects from the Deep Ecliptic Survey"

Adams, J.J., et al. 2014, ApJ, 789, 63, "Dwarf Galaxy Dark Matter Density Profiles Inferred from Stellar and Gas Kinematics"

Alberts, S., ... **Atlee, D.W.**, ... **Dey, A.**, et al. 2014, MNRAS, 437, 437, "The Evolution of Dust-Obscured Star Formation Activity in Galaxy Clusters Relative to the Field over the Last 9 Billion Years"

Amigo, P., et al. 2013, AJ, 146, 130, "Time-Series BVI Photometry for the Globular Cluster NGC 6981"

Amorín, R., et al. 2014, ApJL, 788, L4, "Evidence of Very Low Metallicity and High Ionization State in a Strongly Lensed, Star-Forming Dwarf Galaxy at $z = 3.417$ "

Anthony-Twarog, B.J., Deliyannis, C.P., Twarog, B.A. 2014, AJ, 148, 51, "A uvbyCaH β Analysis of the Old Open Cluster, NGC 6819"

Ascaso, B., Wittman, D., Dawson, W. 2014, MNRAS, 439, 1980, "Optical Galaxy Clusters in the Deep Lens Survey"

Bassett, R., et al. 2014, MNRAS, 442, 3206, "DYNAMO—II. Coupled Stellar and Ionized-Gas Kinematics in Two Low-Redshift Clumpy Discs"

Beaver, J., Kaltcheva, N., Briley, M., Piehl, D. 2013, PASP, 125, 1412, "Strömgren-H β Photometry of the Rich Open Cluster NGC 6705 (M 11)"

Belli, S., Newman, A.B., Ellis, R.S., Konidaris, N.P. 2014, ApJL, 788, L29, "MOSFIRE Absorption Line Spectroscopy of $z > 2$ Quiescent Galaxies: Probing a Period of Rapid Size Growth"

Berger, E., et al. 2013, ApJ, 779, 18, "A Search for Fast Optical Transients in the Pan-STARRS1 Medium-Deep Survey: M-Dwarf Flares, Asteroids, Limits on Extragalactic Rates, and Implications for LSST"

Bernstein-Cooper, E.Z., et al. 2014, AJ, 148, 35, "ALFALFA Discovery of the Nearby Gas-Rich Dwarf Galaxy Leo P. V. Neutral Gas Dynamics and Kinematics"

Berrington, R.C., et al. 2013, MNRAS, 436, 3321, "The X-ray Spectrum and Spectral Energy Distribution of FIRST J155633.8+351758: A LoBAL Quasar with a Probable Polar Outflow"

Betoule, M., et al. 2014, A&A, 568, A22, "Improved Cosmological Constraints from a Joint Analysis of the SDSS-II and SNLS Supernova Samples"

Bezanson, R., et al. 2013, ApJL, 779, L21, "Tight Correlations between Massive Galaxy Structural Properties and Dynamics: The Mass Fundamental Plane Was in Place by $z \sim 2$ "

Blanco-Cuaresma, S., Soubiran, C., Jofré, P., Heiter, U. 2014, A&A, 566, A98, "The Gaia FGK Benchmark Stars. High Resolution Spectral Library"

Boettcher, E., et al. 2013, AJ, 146, 94, "A Search for RR Lyrae Stars in Segue 2 and Segue 3"

Brodwin, M., ... **Dey, A.**, et al. 2013, ApJ, 779, 138, "The Era of Star Formation in Galaxy Clusters"

Brown, M.J.I., et al. 2014, ApJS, 212, 18, "An Atlas of Galaxy Spectral Energy Distributions from the Ultraviolet to the Mid-infrared"

Brownsberger, S., Romani, R.W. 2014, ApJ, 784, 154, "A Survey for H α Pulsar Bow Shocks"

Bruursema, J., Meixner, M., Long, K. S., Otsuka, M. 2014, AJ, 148, 41, "A Search for Supernova Remnants in NGC 6946 Using the [Fe II] 1.64 μ m Line"

Çakırlı, Ö., Ibanoglu, C., Sipahi, E. 2014, MNRAS, 442, 1560, "V745 Cassiopean Interacting Young Massive Binary in a Multiple-Star System"

Calapa, M.D., et al. 2014, ApJ, 784, 130, "The Heating of Mid-infrared Dust in the Nearby Galaxy M33: A Testbed for Tracing Galaxy Evolution"

Calura, F., et al. 2014, MNRAS, 438, 2765, "The Dust Content of QSO Hosts at High Redshift"

Cannon, J.M., et al. 2014, ApJL, 787, L1, "Discovery of a Gas-Rich Companion to the Extremely Metal-Poor Galaxy DDO 68"

Cavichia, O., Mollá, M., Costa, R.D.D., Maciel, W.J. 2014, MNRAS, 437, 3688, "The Role of the Galactic Bar in the Chemical Evolution of the Milky Way"

Chavarría, L., **Allen, L.**, et al. 2014, MNRAS, 439, 3719, "A Multiwavelength Study of Embedded Clusters in W5-East, NGC 7538, S235, S252 and S254-S258"

Choi, J., et al. 2014, ApJ, 792, 9, "The Assembly Histories of Quiescent Galaxies since $z = 0.7$ from Absorption Line Spectroscopy"

Chung, S.M., et al. 2014, ApJ, 790, 54, "A UV to Mid-IR Study of AGN Selection"

Clem, J.L., Landolt, A.U. 2013, AJ, 146, 88, "Faint UBVRI Standard Star Fields"

Cody, A.M., ... **Allen, L.**, et al. 2014, AJ, 147, 82, "CSI 2264: Simultaneous Optical and Infrared Light Curves of Young Disk-Bearing Stars in NGC 2264 with CoRoT and Spitzer—Evidence for Multiple Origins of Variability"

Coleiro, A., et al. 2014, A&A, 560, A108, "Infrared Identification of High-Mass X-ray Binaries Discovered by INTEGRAL"

Cook, R.I., Dell'Antonio, I.P. 2013, MNRAS, 435, 766, "Probing Atmospheric Distortions Using Orthogonal Transfer Imagers"

Crawford, F., et al. 2013, ApJ, 776, 20, "PSR J1723–2837: An Eclipsing Binary Radio Millisecond Pulsar"

Crawford, S.M., Wirth, G.D., Bershadsky, M.A. 2014, ApJ, 786, 30, "Spatial and Kinematic Distributions of Transition Populations in Intermediate Redshift Galaxy Clusters"

Dale, D.A., et al. 2014, ApJ, 784, 83, "A Two-Parameter Model for the Infrared/Submillimeter/Radio Spectral Energy Distributions of Galaxies and Active Galactic Nuclei"

de Blok, W.J.G., et al. 2014, A&A, 566, A80, "HALOGAS Observations of NGC 4414: Fountains, Interaction, and Ram Pressure"

de la Fuente Marcos, C., de la Fuente Marcos, R. 2014, MNRAS, 441, 2280, "Comparative Orbital Evolution of Transient Uranian Co-orbitals: Exploring the Role of Ephemeral Multibody Mean Motion Resonances"

Deacon, N.R., et al. 2014, ApJ, 792, 119, "Wide Cool and Ultracool Companions to Nearby Stars from Pan-STARRS 1"

Dey, A., Valdes, F. 2014, PASP, 126, 296, "The Delivered Image Quality with the MOSAIC Cameras at the Kitt Peak 4m Mayall and Cerro Tololo 4m Blanco Telescopes"

Dowell, J.L., et al. 2014, AJ, 147, 150, "Beyond the Brim of the Hat: Kinematics of Globular Clusters out to Large Radii in the Sombrero Galaxy"

Duffau, S., **Vivas, A.K.**, et al. 2014, A&A, 566, A118, "A Comprehensive View of the Virgo Stellar Stream"

Faisst, A.L., et al. 2014, ApJ, 788, 87, "Spectroscopic Observation of Ly α Emitters at $z \sim 7.7$ and Implications on Re-ionization"

Fan, Z., de Grijs, R. 2014, ApJS, 211, 22, "Star Clusters in M33: Updated UBVRI Photometry, Ages, Metallicities, and Masses"

Fekel, F.C., Tomkin, J., Williamson, M.H. 2013, AJ, 146, 129, "New Precision Orbits of Bright Double-Lined Spectroscopic Binaries. VIII. HR 1528, HR 6993, 2 Sagittae, and 18 Vulpeculae"

Fiorenza, S.L., Takeuchi, T.T., Małek, K.E., Liu, C.T. 2014, ApJ, 784, 140, "Evolutionary Paths along the BPT Diagram for Luminous and Ultraluminous Infrared Galaxies"

Fraeman, A.A., et al. 2014, Icar, 229, 196, "Spectral Absorptions on Phobos and Deimos in the Visible/Near Infrared Wavelengths and Their Compositional Constraints"

Frith, J., et al. 2013, MNRAS, 435, 21, "A Catalogue of Bright ($K < 9$) M Dwarfs"

Fritz, A., et al. 2014, A&A, 563, A92, "The VIMOS Public Extragalactic Redshift Survey (VIPERS): A Quiescent Formation of Massive Red-Sequence Galaxies over the Past 9 Gyr"

Gagné, J., et al. 2014, ApJ, 783, 121, "BANYAN. II. Very Low Mass and Substellar Candidate Members to Nearby, Young Kinematic Groups with Previously Known Signs of Youth"

Gagne, J.P., et al. 2014, ApJ, 792, 72, "Spatially Resolved Spectra of the 'Teacup' Active Galactic Nucleus: Tracing the History of a Dying Quasar"

Garcia, E.V., et al. 2014, AJ, 148, 39, "A Strict Test of Stellar Evolution Models: The Absolute Dimensions of the Massive Benchmark Eclipsing Binary V578 Mon"

Geller, M.J., et al. 2014, ApJS, 213, 35, "SHELS: A Complete Galaxy Redshift Survey with $R \leq 20.6$ "

Goulding, A.D., et al. 2014, ApJ, 783, 40, "Tracing the Evolution of Active Galactic Nuclei Host Galaxies over the Last 9 Gyr of Cosmic Time"

Graham, M.L., et al. 2014, ApJ, 787, 163, "Clues to the Nature of SN 2009ip from Photometric and Spectroscopic Evolution to Late Times"

Grunhut, J.H., Bolton, C.T., McSwain, M.V. 2014, A&A, 563, A1, "Orbit and Properties of the Massive X-ray Binary BD +60 73=IGR J00370+6122"

Guo, H., et al. 2014, MNRAS, 441, 2398, "The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Modelling of the Luminosity and Colour Dependence in the Data Release 10"

Hagen, A., et al. 2014, ApJ, 786, 59, "Spectral Energy Distribution Fitting of HETDEX Pilot Survey Ly α Emitters in COSMOS and GOODS-N"

Haines, C.P., et al. 2013, ApJ, 775, 126, "LoCuSS: The Steady Decline and Slow Quenching of Star Formation in Cluster Galaxies over the Last Four Billion Years"

Hansen, T., ... **Beers, T.C.**, et al. 2014, ApJ, 787, 162, "Exploring the Origin of Lithium, Carbon, Strontium, and Barium with Four New Ultra Metal-Poor Stars"

Hayes, C.R., Friel, E.D. 2014, AJ, 147, 69, "Radial Velocities of Three Poorly Studied Clusters and the Kinematics of Open Clusters"

Hillenbrand, L.A., Hoffer, A.S., Herczeg, G.J. 2013, AJ, 146, 85, "An Enhanced Spectroscopic Census of the Orion Nebula Cluster"

Hinkel, N. R., et al. 2014, AJ, 148, 54, "Stellar Abundances in the Solar Neighborhood: The Hypatia Catalog"

Hinkle, K.H., Joyce, R.R. 2014, ApJ, 785, 146, "The Spatially Resolved Bipolar Nebula of Sakurai's Object"

Hinshaw, G., et al. 2013, ApJS, 208, 19, "Nine-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Cosmological Parameter Results"

Honeycutt, R.K., et al. 2014, AJ, 147, 105, "The 1991-2012 Light Curve of the Old Nova HR LYRAE"

Huang, S., et al. 2014, ApJ, 793, 40, "HighMass-High H I Mass, H I-Rich Galaxies at $z \sim 0$ Sample Definition, Optical and H α Imaging, and Star Formation Properties"

Hunter, D.A., et al. 2013, AJ, 146, 92, "Star Formation in Two Luminous Spiral Galaxies"

- Hutton, S., et al. 2014, MNRAS, 440, 150, "A Panchromatic Analysis of Starburst Galaxy M82: Probing the Dust Properties"
- Izotov, Y.I., Stasińska, G., Guseva, N.G. 2013, A&A, 558, A71, "Primordial ^4He Abundance: A Determination Based on the Largest Sample of H II Regions with a Methodology Tested on Model H II Regions"
- Jain, B., Vikram, V., Sakstein, J. 2013, ApJ, 779, 39, Astrophysical Tests of Modified Gravity: Constraints from Distance Indicators in the Nearby Universe"
- Jain, H.-Y., et al. 2014, ApJ, 788, 109, "Probability Friends-of-Friends (PFOF) Group Finder: Performance Study and Observational Data Applications on Photometric Surveys"
- Jiang, L., et al. 2014, ApJS, 213, 12, "The Sloan Digital Sky Survey Stripe 82 Imaging Data: Depth-Optimized Co-adds over 300 deg² in Five Filters"
- Jones, T.M., et al. 2014, ApJ, 783, 25, "X-ray Properties of K-Selected Galaxies at $0.5 < z < 2.0$: Investigating Trends with Stellar Mass, Redshift and Spectral Type"
- Jönsson, H., ... **Hinkle, K.H.** 2014, ApJL, 789, L41, "Fluorine in the Solar Neighborhood: Is It All Produced in Asymptotic Giant Branch Stars?"
- Jurcsik, J., ... **Saha, A.**, et al. 2013, ApJL, 778, L27, "What is the Difference? Blazhko and Non-Blazhko RRab Stars and the Special Case of V123 in M3"
- Kamann, S., et al. 2014, A&A, 566, A58, "The Central Dynamics of M3, M13, and M92: Stringent Limits on the Masses of Intermediate-Mass Black Holes"
- Kangas, T., et al. 2013, MNRAS, 436, 3464, "Spatial Distributions of Core-Collapse Supernovae in Infrared-Bright Galaxies"
- Kannan, R., et al. 2014, MNRAS, 437, "The MaGICC Volume: Reproducing Statistical Properties of High-Redshift Galaxies"
- Keel, W.C., et al. 2014, AJ, 147, 44, "The Ultraviolet Attenuation Law in Backlit Spiral Galaxies"
- Kelson, D.D., Williams, R.J., Dressler, A., McCarthy, P.J., et al. 2014, ApJ, 783, 110, "The Carnegie-Spitzer-IMACS Redshift Survey of Galaxy Evolution since $z = 1.5$. I. Description and Methodology"
- Kenney, J.D.P., et al. 2014, ApJ, 780, 119, "Transformation of a Virgo Cluster Dwarf Irregular Galaxy by Ram Pressure Stripping: IC3418 and Its Fireballs"

Kettula, K., et al. 2013, ApJ, 778, 74, "Weak Lensing Calibrated M-T Scaling Relation of Galaxy Groups in the COSMOS Fieldsstarf"

Kim, J.-W., et al. 2014, MNRAS, 438, 825, "Clustering of Extremely Red Objects in Elais-N1 from the UKIDSS DXS with Optical Photometry from Pan-STARRS 1 and Subaru"

Kobulnicky, H.A., et al. 2014, ApJS, 213, 34, "Toward Complete Statistics of Massive Binary Stars: Penultimate Results from the Cygnus OB2 Radial Velocity Survey"

Kostov, V.B., et al. 2014, ApJ, 784, 14, "Kepler-413b: A Slightly Misaligned, Neptune-Size Transiting Circumbinary Planet"

Kostov, V.B., et al. 2014, ApJ, 787, 93, "Erratum: 'Kepler-413b: A Slightly Misaligned, Neptune-Size Transiting Circumbinary Planet'"

Landolt, A.U. 2013, AJ, 146, 131, "UBVRI Photometric Standard Stars around the Sky at +50 deg Declination"

Lane, B.F., et al. 2014, ApJ, 783, 3, "The Orbits of the Triple-Star System 1 Geminorum from Phases Differential Astrometry and Spectroscopy"

Laycock, S., Cappallo, R., Oram, K., Balchunas, A. 2014, ApJ, 789, 64, "A Transient Supergiant X-ray Binary in IC 10: An Extragalactic SFXT?"

Lee, C.-H., et al. 2014, ApJ, 785, 11, "Properties of M31. IV. Candidate Luminous Blue Variables from Pandromeda"

Lee, J.H., Lee, M.G. 2014, ApJ, 786, 130, "A New Optical Survey of Supernova Remnant Candidates in M31"

Lee, N., ... **Kartaltepe, J.S.**, et al. 2013, ApJ, 778, 131, "Multi-wavelength SEDs of Herschel-Selected Galaxies in the COSMOS Field"

Leighly, K.M., et al. 2014, ApJ, 788, 123, "Evidence for Active Galactic Nucleus Feedback in the Broad Absorption Lines and Reddening of Mrk 231"

Lillo-Box, J., Barrado, D., Bouy, H. 2014 A&A, 566, A103, "High-Resolution Imaging of Kepler Planet Host Candidates. A Comprehensive Comparison of Different Techniques"

Lucy, A.B., et al. 2014, ApJ, 783, 58, "Tracing the Outflow of a $z = 0.334$ FeLoBAL: New Constraints from Low-Ionization Absorbers in FBQS J1151+3822"

Ly, C., et al. 2014, ApJ, 780, 122, "'Direct' Gas-Phase Metallicities, Stellar Properties, and Local Environments of Emission-Line Galaxies at Redshifts below 0.90"

Maderak, R.M., Deliyannis, C.P., King, J.R., Cummings, J.D. 2013, AJ, 146, 143, "WIYN Open Cluster Study. LVII. Oxygen Abundances of Solar-Type Dwarfs in the Hyades and NGC 752"

Majaess, D., et al. 2013, A&A, 560, A22, "Anchors for the Cosmic Distance Scale: The Cepheids U Sagittarii, CF Cassiopeiae, and CEab Cassiopeiae"

Mao, Y.-W., Kong, X., Lin, L. 2014, ApJ, 789, 76, "Characterizing Ultraviolet and Infrared Observational Properties for Galaxies. II. Features of Attenuation Law"

Marcy, G.W., ... **Everett M.**, et al. 2014, ApJS, 210, 20, "Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets"

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Mészáros, Sz., ... **Smith, V.V.**, et al. 2013, AJ, 146, 133, "Calibrations of Atmospheric Parameters Obtained from the First Year of SDSS-III APOGEE Observations"

Milliman, K.E., et al. 2014, AJ, 148, 38, "WIYN Open Cluster Study. LX. Spectroscopic Orbits in NGC 6819"

Milvang-Jensen, B., et al., 2013, A&A, 560, A94, "On-sky Characterisation of the VISTA NB118 Narrow-Band Filters at 1.19 μm "

Mineo, S., et al. 2014, ApJ, 780, 132, "The Radial Distribution of X-ray Binaries and Globular Clusters in NGC 4649 and Their Relation with the Local Stellar Mass Density"

Monroe, T.R., Pilachowski, C.A., Rebull, L. 2013, ASP Conf. 472, ed. M. Chavez, E. Bertone, O. Vega, V. de la Luz (ASP), 111, "Metallicities of Solar-Type Stars in Young Open Clusters"

Murata, K., ... **Inami, H.**, et al. 2014, A&A, 566, A136, "Polycyclic Aromatic Hydrocarbon Feature Deficit of Starburst Galaxies in the AKARI North Ecliptic Pole Deep Field"

Murata, K.L., et al. 2014, ApJ, 786, 15, "Evolution of the Fraction of Clumpy Galaxies at $0.2 < z < 1.0$ in the COSMOS Field"

Muzzin, A., et al. 2013, ApJ, 777, 18, "The Evolution of the Stellar Mass Functions of Star-Forming and Quiescent Galaxies to $z = 4$ from the COSMOS/UltraVISTA Survey"

Natale, G., Foyle, K., Wilson, C.D., Kuno, N., 2014, MNRAS, 441, 224, "A Multiwavelength Analysis of the Clumpy FIR-Bright Sources in M33"

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Newman, A.B., et al. 2014, ApJ, 788, 51, "Spectroscopic Confirmation of the Rich $z = 1.80$ Galaxy Cluster JKCS 041 using the WFC3 Grism: Environmental Trends in the Ages and Structure of Quiescent Galaxies"

Nielsen, N.M., Churchill, C.W., Kacprzak, G.G., Murphy, M.T. 2013, ApJ, 776, 114, "MAGIICAT I. The Mg II Absorber-Galaxy Catalog"

Norris, M.A., et al. 2014, MNRAS, 443, 1151, "The AIMSS Project—I. Bridging the Star Cluster-Galaxy Divide"

Ochsendorf, B.B., et al. 2014, A&A, 563, A65, "Blowing in the Wind: The Dust Wave around σ Orionis AB"

Ofek, E.O., et al. 2014, ApJ, 789, 104, "Precursors Prior to Type II_n Supernova Explosions are Common: Precursor Rates, Properties, and Correlations"

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- Sandin, C. 2014, A&A, 567, A97, "The Influence of Diffuse Scattered Light. I. The PSF and Its Role in Observations of the Edge-On Galaxy NGC 5907"
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- Schlieder, J.E., et al. 2014, ApJ, 783, 27, "Characterization of the Benchmark Binary NLTT 33370"
- Schulz, E. 2014, ApJ, 790, 76, "Dwarf Galaxies in the Halo of NGC 891"
- Scott, N., et al. 2014, MNRAS, 441, 274, "Distribution of Slow and Fast Rotators in the Fornax Cluster"
- Seeliger, M., et al. 2014, MNRAS, 441, 304, "Transit Timing Analysis in the HAT-P-32 System"
- Sheffield, A.A., et al. 2014 ApJ, 793, 62S, "Exploring Halo Substructure with Giant Stars. XIV. The Nature of the Triangulum-Andromeda Stellar Features"
- Skinner, S.L., Rebull, L., Güdel, M. 2014, AJ, 147, 88, "An X-ray and Infrared Survey of the Lynds 1228 Cloud Core"
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- Starikova, S., et al. 2014, ApJ, 786, 125, "Comparison of Galaxy Clusters Selected by Weak-Lensing, Optical Spectroscopy, and X-rays in the Deep Lens Survey F2"
- Stocke, J.T., et al. 2014, ApJ, 791, 128, "Absorption-Line Detections of 10^5 - 10^6 K Gas in Spiral-Rich Groups of Galaxies"
- Stovall, E., et al. 2014, ApJ, 791, 67, "The Green Bank Northern Celestial Cap Pulsar Survey. I. Survey Description, Data Analysis, and Initial Results"
- Straatman, C.M.S., ... **Dickinson, M.**, ... **Inami, H.**, et al. 2014, ApJL, 783, L14, "A Substantial Population of Massive Quiescent Galaxies at $z \sim 4$ from ZFOURGE"
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¹ WIYN data may have resulted from time allocated by other than the NOAO TAC.