

**MMT Observing Programs**  
**January – April 2013**

PA-12B-0140	Farihi, Holberg, Koester, Redfield, Barstow	The Bulk Composition of Rocky Planetary Debris and a Search for Water
PA-12B-0185	Kriek, Jones	Physical Properties of Galaxies as a Function of Spectral Type
PA-13A-0072	Ly, Malkan, Nagao, Hayashi, Kashikawa, Shimasaku, Motohara	Investigating the Processes Driving Low-Mass Galaxy Evolution with Gas Metallicities of Starburst Galaxies
PA-13A-0301	Farihi, Holberg, Redfield, Gänsicke	The Bulk Composition of Rocky Planetary Debris and a Search for Water
PA-13A-0405	Covey, Prato, Torres, Furesz, Szentgyorgyi, Cody	A Coordinated Optical/NIR Survey for Low- Mass Pre-Main Sequence Binaries in NGC 2264
SAO-1	Brown, Geller, Kenyon, Kilic	Hypervelocity Stars and Merging White Dwarfs
SAO-2	Geller, Fabricant, Kurtz, Hwang, Diaferio, Rines, Miyazaki	HectoMAP: Clusters and Large-Scale Structure at $0.25 < z < 0.5$
SAO-3	Walker, Olszewski, Mateo, Penarrubia	Dwarf Spheroidals as Tests of the Cold Dark Matter Paradigm
SAO-4	Benbow, Furniss, Williams, Fumagalli, Hogan	Determining Blazar Redshifts for Studies of the EBL
SAO-5	Benbow, Furniss, Williams, Fumagalli, Hogan	Parallel Observations to Determine Blazar Redshifts for Studies of the EBL
SAO-6	Berger, Fong, Laskar, Chornock	The MMT Spectroscopic Survey of Pan- STARRS Transients (MMT Cam)
SAO-7	Milisavljevic, Soderberg, Margutti, Drout, Sanders, Dittmann, Kamble, Chakraborti	Coordinated Multi-Wavelength Follow-up of Core-Collapse Supernovae
SAO-8	Walker, Caldwell	A Hectochelle Survey of Stellar Substructure in the Galactic Halo
SAO-9	Caldwell, Strader, Seth, Ivans, Szentgyorgyi	The Hectochelle Northern Galactic Globular Cluster Survey

SAO-10	Berger, Chomiuk, Chornock, Czekala, Dittmann, Drout, Foley, Kirshner, Lunnan, Margutti, Marion, Milisavljevic, Narayan, Sanders, Soderberg, Stubbs, Zauderer	The MMT Spectroscopy survey of Pan-STARRS Transients (Blue Channel)
SAO-11	Chornock, Lunnan, Berger	MMT Photometry of Ultraluminous Supernovae and their Host Galaxies
SAO-12	Caldwell, Strader, Romanowsky, Brodie	M87 and the Virgo Cluster
SAO-13	Paggi, Massaro, D'Abrusco, Margutti, Milisavljevic, Masetti, Tosti, Grindlay, Smith	Unveiling the Nature of Unidentified Gamma-Ray Sources with Optical Spectroscopic Observations
SAO-14	Bussmann, Wilner, Gurwell, Negrello, Verma, Smith, H-ATLAS Collaboration	Near-IR Imaging of Candidate Lensing Galaxies Discovered by Herschel
SAO-15	Meibom, Barnes, Furesz, Latham, Szentgyorgyi	The <i>Kepler</i> Cluster Study: Exoplanets and Gyrochronology
SAO-16	Falco, Mediavilla, Motta	Spectroscopic Search for Microlensing in Lensed QSOs
SAO-17	Dai, Fazio, Elvis, Huang, Willmer	Completing the Redshift Survey for 24 $\mu$ m Selected Targets in the LH Field
SAO-18	Grindlay, Brown	MMT Science Cam
UAO-E29	Kiminki, Bechtold, Williams, Lesser	MAESTRO Engineering
UAO-EPO66	Green, Wallace, O'Malley, For, Fontaine, Brassard	Undergraduate Observing: A New Eclipsing sdB + Brown Dwarf Binary and a Search for a New Class of sdO Variables
UAO-G5	Liu, Fang, Xue, Van de Ven, Carrell, Wu	MMT Hectospec Radial Velocities of Red Clump Stars III: Non-Axisymmetric Structure of the Milky Way Disk
UAO-G6	Fang, Wang, Kim, Sicilia-Aguilar, van Boekel, Henning	Charactering the Accretion and Stellar Properties of Young Stars in the Orion Molecular Cloud

UAO-G7	Kong, Lin, Fang, Wang	Completing “Spectroscopy of HII Regions in Nearby Galaxies (2012A-03)”
UAO-G9	Sokal, Johnson	Emerging Wolf-Rayet Stars in Embedded Super Star Clusters
UAO-G11	Zhang, L., Liu, Read, van de Venn, Rix	MMT/Hectospec Spectra for K-Dwarfs at the North Galactic Pole: Measuring the Local Dark Matter Density
UAO-S1B	Just, Zaritsky, Rudnick, Aragon-Salamanca, Desai, De Lucia, Finn, Jablonka, Poggianti	Identifying Strongly Star-Forming Galaxies in the Infall Regions of Clusters
UAO-S2	De Rosa, Patience, McCarthy, Rajan, Ward-Duong	The First Comprehensive Statistics on Low-Mass Companions to A-Type Stars
UAO-S3	Stark, Bian, Fan, Ashby	A Spectroscopic Catalog of Bright $3.5 < z < 5.5$ Galaxies
UAO-S4	Wang, Dong, Bian	Understanding the Assembly History of the Outer Disk of NGC 2403
UAO-S6	Smith, Malhotra, Rhoads, Zheng	Follow Up Spectroscopy of Ly- $\alpha$ Blobs with Interacting Companion QSOs at $z \sim 2$
UAO-S9	Milne, Smith, Garnavich, Turatto, Bryngelson, Lair	Late Optical and NIR Spectroscopy of the Type Ia Supernova 2011fe
UAO-10	Cohen, Rutkowski, Windhorst	An <i>H</i> -band Selected Redshift Survey in the HST CANDELS-COSMOS Legacy Field
UAO-S12	Tegler, Grundy, Maughan	Spectroscopy of the Icy Dwarf Planet Haumea
UAO-S13	Smith, Mauerhan	Spectroscopic Followup of Explosive Massive-Star Transients
UAO-S14	Buenzli, Apai	Confirmation of Probable High-Amplitude Variable Brown Dwarfs from an HST Survey
UAO-S16	Zaritsky, Sand, Graham	The Stellar Populations of SNe Hosts in Galaxy Clusters
UAO-S17	Zaritsky, Graham, Halford, Zabludoff, Gonzalez	Refining Type Ia SNe Distances

UAO-S19	Clément, Egami, Jiang	Spectroscopic Identification of $z \sim 6 - 7$ Candidates in Massive Lensing Cluster Fields and the Subaru Deep Field
UAO-S20	Kim, Sung, Bagley, Sherry, Meyer, Jose	A MMT/Hectospec Survey of Young Stellar Objects in the W4 Star-Forming Region
UAO-S21	Wong, Ammons, Zabludoff, Keeton, Decker French, McCully	Mapping the Most Powerful Gravitational Lens Telescopes with MMT Hectospec
UAO-S22	Kulesa, McCarthy	Direct Measurement of Cold H <sub>2</sub> in Star Forming Clouds
UAO-S24	Zheng, Jiang, Malhotra, Rhoads, Cai, Fan, Wang	Identifying Type II Quasars at Redshift 5.7
UAO-S25	Cai, Fan, Frye, McGreer	MAPPING the Most Massive Overdensity Through HI (MAMMOTH): Spectroscopy of High Density HI Systems
UAO-S26	Bian, Fan, Peng, Jiang	A Survey of Ultra-Luminous Lyman Break Galaxies at $z \sim 3$ in the Next Generation Virgo Survey
UAO-S27	Olszewski, Walker, Mateo, Penarrubia	Dwarf Spheroidals as Tests of the Cold Dark Matter Paradigm
UAO-S28	Jiang, Fan, Walter, Bian, Cai, McGreer, Wang	Identifying $z \geq 6$ Quasars in the UKIDSS Deep Extragalactic Survey Fields
UAO-S33	Smith, Mauerhan	Constraining Pre-Supernova Mass Loss: Spectroscopy of Circumstellar Gas Overtaken by the Blast Wave
UAO-S99	Rajan, Patience, Ward-Duong, De Rosa, King	Searching for Variability Across the T/Y Transition – Evidence of Patchy Clouds?
UAO-S99B	Kim, Fang	HectoChelle Observations of Young Stars in the North American and Pelican Nebulae: Probing Accretion and Disk Evolution