

**MMT Observing Programs  
September –December 2006**

PA-06B-0070	Massey, Clayton, Levesque, Olsen, Plez, Silva	The Physical Properties and Excess Reddening of Red Supergiants in M31: When Smoke Gets in Your Eyes
PA-06B-0154	Kafka, Honeycutt	Hyperactivity on the Secondary Stars of Cataclysmic Variables
PA-06B-0539	Hennawi, Strauss, Schneider, Fan	MMT Spectroscopy of High Redshift Quasar Pairs: Measuring Small Scale Quasar Clustering at $z \sim 4$
SAO-1	McLeod, Conroy	Megacam Engineering
SAO-2	Brown, Geller, Kenyon, Kurtz	Hyper-Velocity Stars I
SAO-3	Geller, Fabricant, Kurtz, Dell'Antonio, Ramella	SHELS: Mapping the Mass Distribution in the Universe
SAO-4	Mamajek, Hinz, Kenworthy, Heinze, Sivanandam, Meyer	MMTAO/CLIO Survey for Super-Jupiters Around Nearby A-Type Stars
SAO-5	Brown, Geller, Kewley	Extreme Low Metallicity Galaxies
SAO-6	Allen, Furesz, Szentgyorgyi, Briceño, Megeath, Thomas, Muzerolle, Calvet, Hartmann, Hernandez	The All Orion Spectroscopic Survey: Masses, Ages and Disk Frequencies
SAO-7	Modjaz, Kirshner, Challis, Blondin	Target of Opportunity: MMT Spectroscopy of SNe Connected with GRBs
SAO-9	Ashby, Huang, Barmby, Willner, Fazio, McLeod	A Search for High-Redshift Galaxies in the SSA22 Survey Field
SAO-10	Furesz, Hartmann, Miller, Szentgyorgyi	Kinematics and Binary Properties of Young Unrelaxed Clusters
SAO-11	Caldwell, Morrison, Harding, Rose, Schiavon	Evolution of Star Clusters and Streams in M31
SAO-12	Raymond, Winkler, Long, Blair, Szentgyorgyi	Optical Spectra of Tycho's Supernova Remnant

SAO-13	Allen, Furesz, Szentgyorgyi, Briceño, Megeath, Thomas, Muzerolle, Calvet, Hartmann, Hernandez	The All Orion Spectroscopic Survey: Kinematics and Accretion Rates
SAO-14	Steeghs, Sokoloski, Drake, Drew, IPHAS Team	Hectospec Follow-Up of H $\alpha$ Sources from the IPHAS Survey
SAO-15	Teixeira, Young, Lada, Hinz, Sozzetti	Resolving Fragmenting Cores in the Spokes Cluster in NGC2264
SAO-16	Currie, Kenyon, Evans	Accretion Signatures and Cluster Membership in $\eta$ and $\chi$ Persei
SAO-17	Currie, Kenyon, Evans	Deep SWIRC Photometry of $\eta$ and $\chi$ Persei
SAO-18	Kirshner, Sasaki, Chandra ACIS Survey of M33 Team	Optical Identification of X-Ray Sources in M33
SAO-19	Winston, Megeath, Gutermuth, Wolk, Allen	Spectral Typing of Clustered Young Stellar Objects in the Nearest 1kpc
SAO-20	Caldwell, Olszewski, Mateo, Walker	Megacam Images of an M31 Field
SAO-21	Schuster, Marengo, Gehrz, Humphreys, Fazio, Hora, Hinz	MMT Adaptive Optics Imaging of Cool Hypergiants with CLIO
SAO-22	Evans, Kraft, Lee, Hardcastle	The Sites of Particle Acceleration in the Hotspots of the Radio Galaxy 3C 33
SAO-23	Caldwell, Olszewski, Mateo, Walker	Kinematics of the Andromeda I Dwarf Spheroidal and the M31 Halo
SAO-25	Latham, Szentgyorgyi, Torres, Furesz, Meibom, Sozzetti, Carney, Laird, Morse	Spectroscopic Classification of Kepler Targets
SAO-26	Chavarria, Allen, Hora	Ages, Masses, and Disk Frequencies in Massive Star Forming Regions
SAO-27	Schuster, Marengo, Gehrz, Humphreys, Fazio, Hora, Hinz, Hoffmann	Mid-IR MMT Adaptive Optics Imaging of Cool Hypergiants with MIRAC/BLINC
SAO-28	Meszaros, Dupree	Dusty Red Giants in M15

SAO-29	Muench, Covey, Lada, Luhman	Hectospec Observations of Young Stars in IC 348: Wide Field Membership
SAO-30	Koenig, Allen, Chavarria	The Star Formation History of the W5 Star Forming Region
SAO-31	Nantais, Huchra, Barmby	Spectroscopy of Globular Clusters in M81
SAO-32	Cerrigone, Hora, Umana, Trigilio, Marengo	Inspecting Infrared Properties of Proto- and Young Planetary Nebulae
UAO-E20	McCarthy, Kulesa	ARIES Engineering
UAO-E21	Hinz, Kenworthy, Miller, Vaitheeswaran	New AO Reconstructor Testing and MIRAC4 Verification
UAO-E22	Brusa, Green, Hinz, Kenworthy, Miller	Characterization of the AO Calibration Technique called “Reconstructor on the Sky”
UAO-E23	Lloyd-Hart, Angel, McCarthy, Baranec, Snyder, Milton, Stalcup	Demonstration of Closed-Loop Laser Guide Star Adaptive Optics
UAO-G18	Woodward, Kelley, Polomski, Harker, Wooden, Hinz, Hoffmann, Miller, Kenworthy	A Mid-IR Study of Comet 4P/Faye and Spitzer Follow-Up Targets
UAO- G19	Humphreys, Gehrz, Woodward, Polomski, McQuinn	Spectroscopy of Spitzer Sources in M33
UAO- G48	Majewski, Patterson, Guhathakurta, Rich, Kalirai, Reitzel, Gilbert	Hectospec Observations of the Newly Discovered M31 Halo
UAO- G49	Thuan, Izotov	A Search for Extremely Low-Metallicity Dwarf Emission-Line Galaxies in the Sloan Digital Sky Survey
UAO-S1	Egami, Neugebauer, AO & CLIO Teams	MMTAO+CLIO Imaging of the Nearby Seyfert 2 Galaxy NGC 1068
UAO-S2	Willmer, Papovich, Coil, Ashby, Huang, Weiner, Brown	The Space Density of Red Galaxies at $z \sim 1$
UAO-S4	Close, Marengo, Biller, Fazio, Hinz, Hoffmann, Miller, Kenworthy	MMTAO Super-Resolution Imaging of AGB Circumstellar Envelopes

UAO-S5	Olszewski, Caldwell, Mateo, Walker	Kinematics of the Andromeda I Dwarf Spheroidal and of the Surrounding M31 Halo Field
UAO-S6	Jiang, Fan	Faint $z \sim 6$ Quasars in the SDSS Deep Stripe: <i>J</i> -Band Photometry of <i>i</i> -Dropout Objects
UAO-S7	Fan, Cool, Jiang, Richards, Schneider, Strauss	Spectroscopic Survey of Faint Quasars at $z > 2.2$ in the SDSS Deep Stripe: A Pilot Study
UAO-S8	G. Rieke, Krause, Birkmann, Kim	The Optical Spectrum of the Cas A Supernova Explosion Revealed from Scattered Light Echoes (II)
UAO-S9	Cushing, Liebert, Hinz	Probing Enhanced Collision-Induced H <sub>2</sub> Absorption in the Atmospheres of Ultracool Subdwarfs
UAO-S10	Zaritsky, Clowe	Tracking Early-Type Galaxies Throughout the Cosmic Web
UAO-S11	Harris, Peng, Johnson	High Resolution Spectroscopy of Globular Clusters in M31
UAO-S12	Rhoads, Finkelstein, Malhotra, Pirzkal	The Nature of High Equivalent Width Lyman Alpha Galaxies
UAO-S14	Heinze, Hinz, Meyer, Sivanandam	An L' and M Band AO Imaging Survey for Planets Orbiting the Nearest Young FGK Stars: Installment 3
UAO-S15	Apai, Meyer, Hinz, Kenworthy, Miller, Heinze, Sivanandam	Imaging Planets around the Closest Stars: Revealing the Different Origins of Planetary-Mass Companions
UAO-S16	Massey	Modeling an Analog of P Cygni in M31: Testing Massive Star Evolutionary Models at High Metallicity
UAO-S17	Herbert-Fort, Prochaska, Ellison	Measuring Chemical Abundances in the Most Metal-Strong Damped Lyman Alpha Galaxies
UAO-S32	Sand, Zaritsky, Herbert-Fort, Sivanandam, Clowe	A Systematic Search for Supernovae in Galaxy Clusters