

**MMT Observing Programs  
September – December 2005**

PA-05B-0245	Chandar, Goudfrooij, Puzia	Ancient Clusters in M33 — Clues to Galaxy Formation
PA-05B-0441	Mathieu, Platais, Latham, Torres, Szentgyorgyi, A. Geller	The WIYN Open Cluster Study: New Astrophysics from Old Open Clusters
PA-05B-0517	Majewski, Patterson, Ostheimer, Guhathakurta, Rich	Exploring the Newly Discovered Halo of M31
SAO-1	Brown, M. Geller, Kenyon, Kurtz	Hyper-Velocity Stars
SAO-2	McLeod, Conroy	Megacam Engineering
SAO-3	M. Geller, Fabricant, Kurtz, Dell'Antonio, Ramella	Mapping the Matter Distribution in the Universe (SHELS)
SAO-4	Caldwell, Morrison, Harding, Rose, Schiavon	M31's Surprising Populations
SAO-5	Latham, Szentgyorgyi, Torres, Furesz, Meibom, Sozzetti	Doppler Survey for Planets in the Kepler Target Region
SAO-6	Brown, McLeod, Fazio, Geary, Pahre	SWIRC Engineering
SAO-7	Korzennik, Szentgyorgyi	PRV for Exo-Planet Detection using Iodine Cell
SAO-8	Kirshner, Modjaz, Hicken, Challis	Supernova Spectroscopy
SAO-9	Steehgs, Sokoloski, Drake, Drew, IPHAS Team	Hectospec Follow-Up of Galactic H $\alpha$ Sources from the IPHAS Survey
SAO-10	Calvet, Allen, Briceño, Megeath, Hartmann	Disk Accretion in the Lowest Mass Orion OB1 Stars
SAO-11	Vikhlinin, Reiprich, Murray, Jones, Schneider, Sarazin, Quintana, Erben, Kravtsov	Weak Lensing Studies of Distant Galaxy Clusters from 400d Survey
SAO-12	Furesz, Allen, Calvet, Hartmann, Megeath, Szentgyorgyi	The Orion Nebula Region: Kinematics of a Key Young Cluster

SAO-13	Allen, Calvet, Briceño, Megeath, Muzerolle, Hartmann, Hernandez, Szentgyorgyi	The All Orion Spectroscopic Survey: Kinematics and Accretion Rates
SAO-14	Patten, Marengo, Hora, Luhman	SWIRC Imaging of IRAC Low-Mass Companion Search Fields
SAO-15	Bolton, Burles, Moustakas	Environmental Calibration of Strong Galaxy-Galaxy Lenses
SAO-16	Gaudi, Holman, Hartman, Stanek, Torres, McLeod	A High-Precision Transit Survey for Hot Jupiters and Hot Neptunes
SAO-17	Allen, Briceño, Megeath, Calvet, Muzerolle, Furesz, Hartmann, Hernandez, Szentgyorgyi	The All Orion Spectroscopic Survey
SAO-18	Winston, Megeath, Allen, Wolk, Muzerolle, Myers	Disk Evolution in the First 3 Million Years
SAO-19	Chavarria, Allen, Hora	Determining Spectral Types in Massive Star Forming Regions Imaged with SPITZER
SAO-20	Marengo, Karovska, Hinz, Hoffmann, Fazio, Miller	The Dusty Envelope of the Mira AB Interacting System
UAO-E1	Kenworthy, Hinz, Miller, Brusa, Vaitheeswaran	Characterization and Refinement of the Natural Guide Star MMT AO System
UAO-E2	Lloyd-Hart, Angel, Hinz, Stalcup, Baranec, Snyder, Milton	Closed-Loop Tomographic Wavefront Correction with Multiple Laser Guide Stars at the MMT
UAO-G65	Humphreys, Wagner	Spectroscopy of Evolved Massive Stars in M33 Observed with Spitzer
UAO-S3	Andersen, Meyer, Greissl, Kenworthy, McCarthy	Searching for Variations in the IMF: Extreme Star Formation in W51
UAO-S4	Nielsen, Close, McCarthy, Biller, Miller, Brusa, Hinz, Lloyd-Hart, Kenworthy	Direct Detection of Young Extrasolar Planets with Simultaneous Differential Imaging and the MMT AO System
UAO-S5	Sivanandam, Hinz, Meyer	L', and M-Band MMTAO Direct Imaging of White Dwarf Planets with CLIO

UAO-S7	Olszewski, Harding, Morrison, Mateo, Helmi	Mapping the Galactic Halo: When the Disk gets in the Way
UAO-S10	Olszewski, Dolphin, Saha	Breaking the Age-Metallicity Degeneracy in the “Deepest Ever” HST M31 Halo Field
UAO-S11	Rhoads, Finkelstein, Malhotra	The Nature of High Equivalent Width Lyman- $\alpha$ Galaxies
UAO-S14	Kulesa, McCarthy	Direct Measurement of Propylid Lifetimes in the Orion Nebula
UAO-S15	Jiang, Fan, Strauss	Faint $z \sim 6$ Quasars in the SDSS Deep Stripe: $J$ -Band Photometry of $i$ -dropout Candidates
UAO-S17	Loll, Hester	Spectroscopy of Filaments in the Crab Nebula
UAO-S18	Fan, Cool, Eisenstein, Jiang, Zehavi	A Spectroscopic Survey of Faint Quasars and Early-Type Galaxies in the SDSS Deep Stripe
UAO-S19	Apai, Meyer, Pascucci, Moor, Hinz, Schlingman	Resolving the Debris of Recent Exoplanetary Collision with MIRAC
UAO-S20	Trilling, Stansberry, Grundy, Spencer	Physical Studies of Kuiper Belt Objects in Support of <i>Spitzer</i> Thermal Observations
UAO-S21	Tegler, Romanishin	Melt Water Inside Large Kuiper Belt Objects
UAO-S22	Zaritsky, Clowe	Tracking Early-Type Galaxies Throughout the Cosmic Web
UAO-S23	Massey, Eastwood, Levesque	The Physical Properties and Excess Reddening of Red Supergiants in M31: When Smoke Gets in Your Eyes
UAO-S25	Marble, Impey, Miller	Rare QSO Pairs
UAO-S26	Burstein, Li, Dolan	From Whence do Old Stellar Populations Come?
UAO-S28	Heinze, Hinz, Meyer, MMTAO Team	A Survey of Nearby Stars for Giant Planets

UAO-S29	Meyer, Apai, Masciardi, Henning, Bouwmann, Hines, Mamajek, Moro-Martin, Pascucci, Rodmann, Silverstone, Wolf, Kim, Biller, Close, Kulesa, McCarthy, Kenworthy, Hinz	Placing our Solar System in Context: Searching for Gas Giant Planets in the Disks of Young Solar Analogues
UAO-S30	Garnett, J.D. Smith, Kennicutt, Skillman	Metallicity Dependence of PAH Emission in Spirals: NGC 628
UAO-S38	Hinz, Kenworthy, Miller, Heinze, Sivinandam	Are Giant Planets the Cause of Debris Disk Structure for Vega and Fomalhaut?