

## 2003 Spring Applications Awarded Time

**Michael L. Sitko, Ray W. Russell, Ann L. Sprague**

Thermal Emission Spectroscopy of the Moon

**Barry Rothberg, Robert D. Joseph**

Infrared Spectral Search for Star-Formation in Mergers

**Yan R. Fernandez, James Bauer, Scott Sheppard, David Jewitt**

New Reflectance Spectra of Trojans and Centaurs

**Joshua P. Emery, Robert H. Brown**

Near-Infrared Spectroscopy of Trojan Asteroids

**Almudena Alonso-Herrero, Masatoshi Imanishi, Alice Quillen**

The Nature of LINERs

**Margaret Hanson, Rolf-Peter Kudritzki**

Near-Infrared Quantitative Spectroscopic Analysis of OB Stars

**Therese A. Encrenaz, Bruno Bezaud, Mirel Biran**

Venus: A Search for Active Volcanism and a Study of Dynamics

**Therese A. Encrenaz, Thomas Greathouse, Matt Richter**

Mars: A Search for H<sub>2</sub>O<sub>2</sub> and Mapping of O<sub>3</sub>

**Mirel Birlan, Antonella Barucci, Schelte J. Bus, Marcello Fulchignoni, Richard Binzel, Sonia Fornassier, Elisabetta Dotto**

Near-IR Spectra of 140 Siwa and 4 Vesta, Targets of Rosetta and Dawn Missions

**Adam J. Burgasser, M. McElwain, J. D. Kirkpatrick**

Spectroscopic Followup of 2MASS T Dwarf Candidates with SpeX

**Charles E. Woodward, Michael S. Kelley, Terry J. Jones**

IR AO Imaging Polarimetry of Protoplanetary Disks

**Thomas Harrison, Heather Osborne**

Searching for the "Circumbinary" Disks of Cataclysmic Variables Using JHKLM Photometry

**Thomas Harrison, Heather Osborne**

The Observation of Isotopic and Chemical Abundance Variations in Cataclysmic Variables

**Masatoshi Imanishi, Kentaro Aoki**

The AGN-Starburst Connection in Seyfert 2 Galaxies

**Kelly E. Fast, Theodor Kostiuk, Fred Espenak**  
Seasonal Ozone Variation and the Stability of the Martian Atmosphere

**Heidi B. Hammel, Michael Cushing, Mark S. Marley**  
Coordinated L and T Dwarf Variability Measurements Using SpeX

**Terry J. Jones, Michael S. Kelley, Charles E. Woodward**  
Infrared Imaging Polarimetry of High Mass Loss Stars

**Edward F. Tedesco, Schelte J. Bus, William Bottke, Don Davis, Alberto Cellino, Patrick Michel, Alessandro Morbidelli, Lynne K. Deutsch, Joseph Adams, Marc Kassis, Joseph L. Hora, MIRSI Team**  
11.7  $\mu\text{m}$  Radiometry of Near-Earth Asteroids and their Progenitors

**Alan Tokunaga, Roger F. Knacke, John Rayner**  
Infrared Spectroscopy of the Eclipsing Pre-Main Sequence Star KH 15D

**Benjamin McCall, Matt Richter, John H. Lacy**  
A New Search for Interstellar and Circumstellar C60

**John Rayner, Michael Gregg, David Silva, William D. Vacca**  
SpeX Extension of the HST Next Generation Spectral Library

**Glenn Orton, P. Yanamandra-Fisher, Kevin H. Baines**  
Weather and Climate Variability in Saturn: Cassini Mission Atmospheric Investigation Support

**Glenn Orton, Brendan Fisher**  
Mid-IR Rotational Variability of Titan: Probing the Troposphere and Surface

**Howie Marion, Peter Hoflich, J. Craig Wheeler, William D. Vacca**  
Near Infrared Spectroscopy of Type Ia Supernova

**Vladimir A. Krasnopolsky, John H. Lacy, Matt Richter**  
Mapping of High-Altitude Ozone and CO on Mars and Search for SO<sub>2</sub>

**Alan W. Harris, Schelte J. Bus, M. Delbo, Lynne K. Deutsch, James Adams, Marc Kassis, Joseph L. Hora**  
Phase-Angle Effects in Determining Albedos and Sizes of Near-Earth Asteroids

**Tom Stallard, Steve Miller, Laurence M. Trafton, Tom Geballe, Robert D. Joseph**  
Winds and Energy Transfer in the Upper Atmosphere of Jupiter

**Tom Stallard, Steve Miller, Laurence M. Trafton, Tom Geballe, Robert D. Joseph**  
Ion Winds in the Saturn's Auroral Region

**William C. Keel, Ian Smal, Clark R. Chapman**

Narrow-band Imaging of SCUBA Galaxies

**Andy Fruchter, James E. Rhoads, Jose Marie Castro Ceron, Javier Gorosabel, Ingunn Burud**  
Gamma-Ray Bursts and their Host Environments

**Beverley J. Wills, Juntao Yuan, Michael Brotherton, Mark Lacy, Dan Vanden Berk, Gordon Richards, Ari Laor, Robert Becker**  
Black Hole Accretion & Outflows at  $z \sim 2$

**Jonathan Williams, Alan Tokunaga, Lynne K. Deutsch, Joseph L. Hora, Joseph Adams, Marc Kassis, James DiFrancesco, Doug Johnstone**  
MIRSI Observations of Young Stellar Groups in Serpens and Monoceros

**Scott Sheppard, David Jewitt**  
Spectroscopy of Dead Comet Candidates

**Andrew S. Rivkin, Ellen S. Howell, Schelte J. Bus**  
Hydrated Minerals on C-class Asteroids: Does Size Matter?

**Nathan Smith, Robert Gehrz**  
Shock Excited [Fe II] 1.644  $\mu\text{m}$  Emission in the Circumstellar Nebula of P Cygni

**Michael Cushing, Heidi B. Hammel, Mark S. Marley**  
Searching for Variability in L and T Dwarf Using SpeX

**S. Dahm, Theodore Simon**  
Infrared Spectroscopy of X-ray Sources in NGC 2264

**Leslie A. Young, Eliot Young, William M. Grundy**  
Infrared Spectral Evidence for Global Change on Triton

**David Klassen, David Glenar, Jim Bell**  
NIR Spectral Imaging of Martian Condensate Clouds

**Keith S. Noll, Sang J. Kim, Soojong Pak, Tom Geballe**  
Mesospheric Temperatures of Jupiter and Saturn from the  $\nu_3+\nu_4-\nu_4$  Band of  $\text{CH}_4$

**Michael S. Kelley, Anthony Hicks, Michael J. Gaffey**  
Compositional Investigation of Dynamical Families with Uncommon Classes of Asteroids

**Amanda S. Bosh, James L. Elliot, Catherine B. Olkin, Richard G. French, John Rayner**  
Saturn before Cassini: The Occultation of S0308

**Tracy Beck, Michal J. Simon, Lisa Prato**  
Probing the Nature and Environment of Young Stars by 2-4  $\mu\text{m}$  SpeXtropy

**K. Cruz, I. Neill Reid**

The Coolest, Nearest L Dwarfs

**P. Yanamandra-Fisher, Glenn Orton**

Seasonal Variability of Phosphine in Saturn's Troposphere

**Solange Ramirez, Kristen Sellgren, Robert Blum**

CNO abundance,  $^{12}\text{C}/^{13}\text{C}$ , and Mixing in Galactic Center Stars

**Matt Richter, John H. Lacy, Daniel Jaffe, Geoff A. Blake**

The TEXES 15  $M_{\text{Earth}}$   $\text{H}_2$  Survey: Run 2 of 4

**Timothy A. Livengood, Theodor Kostiuk, William C. Maguire, John C. Pearl, Drake Deming, Fred Espenak, Kelly E. Fast, Tilak Hewagama**

The Physics of Non-LTE  $\text{CO}_2$  Emission Observed by Mars Global Surveyor TES

**David Turnshek, Sandhya Rao, Daniel Nestor, Eric Monier**

The Nature of Damped Lyman-Alpha Galaxies: The SDSS-HST Sample

**Jasmina Marsh, Daniel Jaffe, Alan Tokunaga**

Next Generation Spectroscopic Survey of the Rho Oph Protostellar Cluster

**Julie Rathbun, John R. Spencer, Jay Goguen**

Occultations of Io by Jupiter and other Galilean Satellites

**Nancy Chanover, Mark Vincent, Reta Beebe**

Temporal Evolution of Jovian Cloud Structure

**L. A. Sromovsky, P. M. Fry**

Spectroscopy and Imaging of Neptune with SpeX

**L. A. Sromovsky, P. M. Fry**

Multispectral Imaging of Neptune with Adaptive Optics

**Qingfeng Zhu, John H. Lacy**

Mid-Infrared Ionic Line Observations of UCHII Regions

**John H. Lacy, Matt Richter, Gene Serabyn**

[Ne II] from Sgr A West: Gas Flow Around a Massive Black Hole

**Terrence W. Rettig, Sean Brittain, Craig Kulesa**

Observation of CO and  $\text{H}_3^+$  in HD141569 and DoAr21

**Jack E. P. Connerney, Takehiko Satoh**

Long-Term Observation of Jupiter's Magnetosphere Using NSFCAM Images of  $\text{H}_3^+$

**Robert D. Joseph, John H. Lacy**  
Coronal Line Spectroscopy of Bright Seyfert Galaxies

**Lisa Prato**  
Characterization of Low-Mass Candidate Young Star Spectroscopic Binaries

**Robert Novak, Michael J. Mumma, Michael DiSanti, Neil Dello Russo, Karen Magee-Sauer**  
Photochemical Mapping of Mars: Search for CH<sub>4</sub>, D/H Ratio, and Ozone/Water Map

**Marc Kassis, Lynne K. Deutsch, Emma Bakes**  
The Structure of Edge-On PDRs at Mid-Infrared Wavelengths

**Daniel Jaffe, John H. Lacy, Matt Richter**  
In Search of the Elusive Disks Around Young OB Stars

**Michael Gregg, Mark Lacy, Eilat Glikman, Robert Becker, Richard White**  
Infrared Bright, Optically Hidden Quasars

**Jay Goguen**  
AOS Imaging to Map the Distribution of Io's SO Emission

**Eliot Young, William M. Grundy, Leslie A. Young, John R. Spencer**  
A Search for Amino Acid Precursors on Satellites of Jupiter and Uranus

**M. A. Chamberlain, Robert H. Brown**  
Infrared Spectroscopy of the Irregular Jovian Satellites

**Schelte J. Bus, Jessica Sunshine**  
Mineralogical Study of S-type Asteroid Families

**Kristen Sellgren, Robert Blum**  
2-4 Micron Continuum and the 3.3 Micron Feature in NGC 7023

**W.P.S. Meikle, Robert D. Joseph, Monica Pozzo**  
Infrared study of nearby type II supernova 2002hh