

Spring 2010 Applications Awarded Time

Sherry Fieber-Beyer, Mike Gaffey

Compositional and Dynamical Studies of Asteroids Located In/Near the 3/1 Resonance

Michael Sitko, Robert Stencel, David Lynch, Ray Russell, Barbara Whitney

Uncovering the Nature of the Mysterious Dark Object in Epsilon Aurigae using Mid-Infrared Spectrophotometry

Terry Jones, Megan Krejny, Kathleen DeWahl

Magnetic Fields and Dust in Starless Cores

Tom Geballe, Takeshi Oka

Search for bright dust-embedded stars near the Galactic center

Glenn Orton, Leigh Fletcher, Padma Yanamandra-Fisher

Mid-Infrared Observations of Saturn to Support the Cassini CIRS Experiment in Revs. 125-134

Glenn Orton, Padma Yanamandra-Fisher, Fletcher Leigh

Near-Infrared Observations of Saturn to Support the Cassini VIMS Experiment in Revs. 125-134

**Glenn Orrton, Leigh Fletcher, Padma Yanamandra-Fisher, Olivier Mousis (Obs. de Besancon)
Agustin Sanchez-Lavega (Univ. del Pais Vasco)**

Understanding the Physics and Chemistry of Jupiter's Atmosphere During a Period of Rapid Dynamical Change

Joshua Schlieder, Michal Simon, Sebastien Lepine

Radial Velocity Confirmation of New, Low-Mass Members of the Beta Pic and AB Dor Young Moving Groups

Vladimir Krasnopolsky

Study of Minor Constituents in the Martian Atmosphere

Tom Stallard, Steve Miller, Henrik Melin, These observations are supported by the International Space Science Institute Team Galand 166 workshop on Saturn Aeronomy

Cassini support observations, investigating the Aurorae and Aeronomy of Saturn.

Henry Roe, Thomas Greathouse, Ralf Kaiser, Sandrine Vinatier, Alan Tokunaga

The TEXES Titan Legacy Spectral Survey

Robert Stencel, Brian Kloppenborg

Transient CO bands in the NIR spectrum of Epsilon Aurigae's Disk during eclipse'

**Michael Sitko, Catherine Espaillat, David Lynch, Ray Russell, Laura Ingleby, Nuria Calvet
Carol A. Grady
Arne Henden**

Disk Accretion in Transition Disk Systems: When the Flame Sputters Out

Mirel BIRLAN, Antonella BARUCCI, Richard BINZEL, Pierre VERNAZZA, Alin NEDELCU, Marcello Fulchignoni

Spatially resolved spectroscopy of 21 Lutetia in the 2.2-4.2 micron spectral region

Pierre Vernazza, Richard Binzel, Alessandro Rossi, Mirel Birlan, Marcello Fulchignoni

Source regions of carbonaceous chondrite meteorites

Paul Steele, Dr. Matthew Burleigh, Dr Jay Farihi, Dr Richard Jameson, Prof Martin Barstow, Dr Paul Dobbie

White dwarfs with unresolved substellar companions in UKIDSS

Glenn Orton, Leigh Fletcher, Padma Yanamandra-Fisher, Agustin Sanchez-Lavega, Ricardo Hueso

Tracking the Debris Field of the July 2009 Jupiter Impact

Alan Tokunaga, Richard Binzel, Andrew Rivkin, Schelte Bus, Mirel Birlan

Spectral Measurements of Spacecraft Mission Candidates

Richard Binzel, Alan Tokunaga, Andy Rivkin, Schelte Bus, Mirel Birlan

Spectral Measurements of Spacecraft Mission Candidates

Mark Swain, Pieter Deroo, Glen Orton, Caitlin Griffith, Giovanna Tinetti

Spectra of a Hot-Jupiter Exoplanet

Geronimo Villanueva, Michael Mumma, Robert Novak, Alan Tokunaga

A Comprehensive Search for Biomarkers on Mars

Gordon Bjoraker, Nancy Chanover, Randy Carlson, Tilak Hewagama

Simultaneous Cassini and IRTF Spectroscopy of Saturn's Troposphere near Equinox

Robert Novak, Michael Mumma, Geronimo Villanueva

Diurnal Variation of Ozone and the D/H Ratio Near Mars' Aphelion

Sara Beck, John Lacy, Jean Turner

High Resolution Spectra of Composite Galaxies with TEXES

Christopher Crockett, Naved Mahmud, Lisa Prato, Christopher Johns-Krull

Detecting Extrasolar Planets in the First 3 Myr

Dagny Looper, Adam Burgasser, John Rayner, Eric Mamajek

The TW Hydrae Association: Case Studies in Disk Evolution, Outflows, and Binary Properties of Young Stars

Guido Sonnabend, Manuela Sornig, Dusan Stupar, Peter Kroetz

Dynamics of the Martian Mesosphere from High-Resolution Infrared Spectroscopy of CO₂

Alan Stockton, Hsin-Yi Shih

Selecting Low-Redshift Analogs to Compact, Massive, Early-Type Galaxies at High Redshifts

**Kelly Fast, Theodor Kostiuk, Timothy Livengood, Tilak Hewagama, John Annen, Franck Lefevre (LATMOS/CNRS)
Michael Wolff (Space Science Institute)
David Buhl (NASA/GSFC)**

Mars ozone measurements coordinated with MRO and MEX

Vishnu Reddy, Andreas Nathues, Mike Gaffey

Ground-based characterization of ASTEX Spacecraft Mission Targets

Manuela Sornig, Guido Sonnabend

Dynamics and Temperatures in the Upper Atmosphere of Venus by High Resolution Infrared Spectroscopy of CO₂

Qingfeng Zhu, John Lacy, Dan Jaffe, Matt Richter, Thomas Greathouse

Searching for Surface Flows in UCHII Regions and Compact HII Regions

Sandrine Guerlet, Thomas Greathouse, Thierry Fouchet, John Lacy

Characterization of the longitudinal and vertical structure of equatorial waves in Saturn's stratosphere using high spectral resolution.

Joseph Hora, Ryan Doering, Howard Smith, Joseph Adams, Kathleen Kraemer, Eric Keto, Giovanni Fazio, Lori Allen, Tom Megeath, Sylvain Bontemps, Nicola Schneider, Frederique Motte, Steve Price, Don Mizuno, Robert Simon

Mid-Infrared Spectroscopy and Imaging of Massive Star Formation in Cygnus-X

Joshua Emery, Dale Cruikshank

Near-infrared spectroscopy and photometry of Trojan asteroids

Cathy Olkin, Will Grundy, Eliot Young, Leslie Young

Spectra of Pluto to map surface ices and search for seasonal change

Michael Koss, Richard Mushotzky, Sylvain Veilleux, Lisa Winter, Neil Gehrels, Margaret Trippe

NIR Spectroscopy of Hard X-ray Selected AGN

**Howie Marion, Andrew Friedman, Peter Garnavich, Kevin Krisciunas, Robert Kirshner, Peter Challis
Ryan Foley
Gautham Narayan**

Using NIR Spectra from Type Ia Supernovae to Constrain NIR Light Curves and Physics

Leslie Young, William Grundy, Eliot Young

Nitrogen migration on Triton's surface

Catherine Espaillat, Cesar Briceno, Nuria Calvet, Jesus Hernandez, Melissa McClure

Unveiling the Innermost Regions of Protoplanetary Disks with Gaps and Holes

Cassy Davison, Russel White, Angelle Tanner, John Bailey, Chris Johns-Krull

Completion of a Volume Limited Survey Search for Planets Orbiting Mid-M Dwarfs

Chad Bender, Gail Schaefer, Michal Simon

Dynamical Observations of Hyades Cluster Spectroscopic Binaries

Michael Liu, Katelyn Allers, Michael Cushing

Developing Empirical Spectral Diagnostics: Near-IR Spectra of Brown Dwarfs in the Pleiades

Ellen Howell, Ron Vervack, Yan Fernandez, Michael Mueller, Patrick Taylor

Combining thermal observations and radar-derived shapes of near-Earth asteroids

Kevin Covey, Peter Plavchan, John Stauffer, Luisa Rebull, Maria Morales-Calderon, Rob Gutermuth, Barbara Whitney, Thomas Megeath, Elaine Winston

Rotationally modulated HI emission: a potential signature of disk heating from accretion shocks

Nial Tanvir, Andrew Levan, Jay Farihi, Klaas Wiersema

IR spectroscopy of GRB afterglows: finding the most distant sources

**William Herbst, Michael Connelley, Joshua Emery, Catrina Hamilton, Christopher Johns-Krull, Reinhard Mundt
Joshua Winn**

A Search for Mineralogic and Ice Signatures in Reflected Light from the KH 15D Disk

**Michael DiSanti, Boncho Bonev, Erika Gibb, Karen Magee-Sauer, Michael Mumma, Geronimo Villanueva
Dennis Bodewits**

The volatile organic composition of Comet C/2009 R1 (McNaught)

Keith Noll, Susan Benecchi, Will Grundy

Correlating Infrared Colors and Physical Properties of Kuiper Belt Binaries

Bin Yang, David Jewitt

Physical Study of The Pallas Family in The Near Infrared

**Timothy A. Livengood, Theodor Kostiuk, Kelly E. Fast, Paul N. Romani, John N. Annen, Tilak Hewagama (UMd)
David Buhl (NASA/GSFC)**

Saturn at Equinox: Meridional Map of Stratospheric Temperature and Ethane Concentration

Kerri Donaldson Hanna, Michael Wyatt, Ray Russell, David Lynch

Thermal infrared measurements of the plagioclase-rich regions on the Moon with BASS: mapping variations and integration with Diviner measurements

Stanimir Metchev, Kerstin Geissler

Cool and Young Brown Dwarf Companions: Empirical Benchmarks for Directly Imaged Extrasolar Planets

Lisa Prato

Circumstellar Disks in Young Binaries

William Vacca, John Rayner, Michael Cushing

Completing the IRTF Spectral Library: The Early-Type Stars

Ryan Doering, Tracy Beck, Joseph Hora, Megan Krejny

Exploring the Extended PAH Distribution Around Herbig Ae/Be Stars

Deokkeun An, Solange Ramirez, Kris Sellgren

High-Resolution Imaging of Newly Found Young Stellar Objects in the Galactic Center

Andrew Kruger, Matthew Richter, Travis Barman, Andreas Seifahrt

K Band Spectroscopy of Extra-Solar Planets

Karen Leighly, Matthias Dietrich, Sara Barber

HeI*10830: A Powerful Probe of Column Density in Broad Absorption Line Quasars

Emily Schaller, Henry Roe, Michael Brown

Titan's Methane Meteorology: Context for Cassini Flybys T67-T70

KyoungHee Kim, Dan Watson, Manoj Puravankara, Joan Najita, William Forrest, Nuria Calvet, Tom Megeath, James Muzerolle

Diagnostics of Disk Accretion in Transitional Disks in Orion A star-forming region from 0.8 to 2.5 Microns

John Spencer, Matt Richter, Thomas Greathouse, Constantine Tsang

A Search for Inflation of Io's Atmosphere near Perihelion

Scott Sheppard, Mike Cushing

Spectra of Faint Infrared High Proper Motion Objects

Ronald Vervack, Neil Dello Russo, Hal Weaver, Dominique Bockelee-Morvan, Jacques Crovisier, Nicolas Biver

Investigating the volatile composition of Comet 81P/Wild 2

Guy Stringfellow, Vasilii Gvaramadze

The Search for New Luminous Blue Variable Stars: Near-Infrared Spectroscopy of Stars With 24 micron Shells

Laurence Trafton, Steve Miller, Tom Stallard

Height of Saturn's Homopause

Driss Takir, Josh Emery

Near-infrared Spectroscopy of Outer Main Belt Asteroid

Jesse Miner, James Rose, Gerald Cecil

A new NIR chronometer with application to high-redshift galaxies.

Claudia Knez, Adwin Boogert, Jean Chiar

Chemical and Physical Evolution of Ices in the Serpens and Perseus Dark Clouds

Joshua Emery, David Trilling, Cristina Thomas, Vishnu Reddy, Marco Delbo

SpeX characterization of Warm Spitzer NEOs

Michael Liu, Adam Kraus, Evgenya Shkolnik, Katelyn Allers

Identifying the Missing Young M Dwarfs

William Merline, Clark Chapman, Peter Tamblyn, David Nesvorny, Eliot Young, Brian Enke

Spectroscopy of Very Young Dynamical Families of Asteroids

Vishnu Reddy, Michael J. Gaffey
Andreas Nathues

Constraining phase angle-induced spectral effects on Vesta for DAWN mission
