

## Fall 2010 Applications Awarded Time

**Vladimir Krasnopolsky**

Variations of Chemical Composition of Venus' Atmosphere Near the Cloud Tops

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

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

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**Therese Encrenaz, Matthew Richter, Thomas Greathouse, John Lacy, Thierry Fouchet, Bruno Bezard, Thomas Widemann, Emmanuel Marcq, Franck Lefevre, Francois Forget, Sushil Atreya**

D/H and SO<sub>2</sub> mapping in the mesosphere of Venus with EXES/TEXES

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**Pierre Vernazza, Richard Binzel, Alessandro Rossi, Mirel Birlan, Francesca DeMeo, Marcello Fulchignoni**

Source regions of carbonaceous chondrite meteorites

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**Glenn Orton, Padma Yanamandra-Fisher, Leigh Fletcher, Agustin Sanchez-Lavega  
Ricardo Hueso  
Santiago Perez-Hoyos**

Dynamics of Rapid Changes in Jupiter's Axisymmetric Regions and Giant Storm Interactions

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**Glenn Orton, Padma Yanamandra-Fisher, Leigh Fletcher**

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

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**Frederick Walter, Gregory Herczeg, Suzan Edwards, Jeff Valenti, David Ardila, Herve Abgrail, Alex Brown, Edwin Bergin, Thomas Bethell, Nuria Calvet, Lynne Hillenbrandt Laura Ingleby, Chris Johns-Krull, Jeffrey Linsky, Evelyne Roueff**

Simultaneity of Accretion and Outflows in Young Stars

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**Kevin Luhman**

The Initial Mass Function in the Taurus Star-forming Region

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**Michael Connelley, Jonathan Williams**

How Does the Protoplanetary Disk Mass Depend On The Stellar Mass?

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**Catherine Espaillat, Nuria Calvet, Kevin Luhman, James Muzerolle**

Unveiling the Innermost Regions of Protoplanetary Disks with Gaps and Holes

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**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

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**Guillem Anglada-Escude, Peter Plavchan, Russel White, Lisa Prato, Charles Beichman, Stephen Kane, NExSci  
David Ciardi, NExSci  
John Johnson, CalTech  
Steve Osterman, University of Colorado  
Scott Diddams, NIST**  
A High-Precision Radial Velocity Survey for Young Planets

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**Steve Miller, Tom Stallard, Henrik Melin, Makenzie Lystrup**

Energy distribution in Jupiter's upper atmosphere: why is it so hot?

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**Robert Stencel, Brian Kloppenborg, Robin Leadbeater, 3 Hills Obs., UK  
Michael Sitko, U. Cincinnati**

Dust sublimation evidence in the debris disk of epsilon Aur - to be seen by SpeX during eclipse egress 2010B.

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**Shoko OHTSUKI, Naoya HOSHINO, Naomoto IWAGAMI, Toru KOUYAMA**

Detection of waves in the nightside upper atmosphere of Venus by mapping the O2 airglow

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**Henry Roe, Matt Richter**

The TEXES Titan Legacy Spectral Survey

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**Arlin Crotts**

Changes in Lunar Regolith Hydration

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

Spectroscopy of Very Young Asteroids

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**William Vacca, John Rayner, Michael Cushing**

Completing the IRTF Spectral Library: The Early-Type Stars

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**Ellen Howell, Ronald Vervack, Yan Fernandez, Michael Mueller**

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

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**Mark Willman, Nicholas Moskovitz**

NIR continuum space weathering on S-complex asteroids

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**Jennifer Karr, Ohashi, Nagayoshi, Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)**  
**Takami, Hiro (ASIAA)**  
**Takakuwa, Shigehisa (ASIAA)**  
**Lai, Shih-Ping (National Taiwan Tsing-Hua University (NTHU))**  
**Hiramatsu, Masaki (ASIAA/NTHU)**  
Probing the Mystery of Vellores

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**Terry Jones, Charles Woodward, Michael Kelley, Michael Sitko, Padma Yanamandra-Fisher**

Imaging Polarimetry of Comets Hartley 2 and Tempel 2

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**Henrik Melin, Tom Stallard, Steve Miller, Laurence Trafton, Makenzie Lystrup**

Detecting the auroral signature of Uranus

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**Rogério Riffel, Michael S. Brotherton, Miriani Pastoriza, Alberto Rodriguez-Ardila, Charles Bonatto**

Probing the processes involved in powering ultra-luminous infrared galaxies

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**Padma Yanamandra-Fisher, Enric Palle, Antonio Garcia Munoz Munoz, Eduardo Guerrero de Escalante, Pilar Montanes Rodriguez, Maria Rosa Zapatero Osorio (CAB-CSIC)**

Near-InfraRed Transmission Spectroscopy of Earth During the 2010 Lunar Eclipse.

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**Leslie Young, Will Grundy, Eliot Young**

Nitrogen migration on Triton's surface

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**Michael Kelley, Chick Woodward, David Harker, Diane Wooden**

The Dust Composition of the EPOXI Mission Target: 103P/Hartley

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**Joshua Emery, Cristina Thomas, Riddhi Dave, David Trilling, Marco Delbo, Michael Mueller**

SpeX characterization of Warm Spitzer NEOs

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**Richard Binzel, Alan Tokunaga, Andrew Rivkin, Schelte Bus, Mirel Birlan, Francesca E. DeMeo, Paris Observatory**

Spectral Measurements of Spacecraft Mission Candidates and Potentially Hazardous Asteroids

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**Richard Binzel, Timothy Spahr, Steven Chesley, Schelte J. Bus, Mirel Birlan, Francesca E. DeMeo; Paris Observatory**

IRTF NEO Rapid Response: Close Encounters of the Asteroid Kind

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**Alan Tokunaga, Richard Binzel, Andrew Rivkin, Schelte Bus, Mirel Birlan, Francesca E. DeMeo, Paris Observatory**

Spectral Measurements of Spacecraft Mission Candidates and Potentially Hazardous Asteroids

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**Takeru Uno, Takeshi Sakanoi, Yasumasa Kasaba, Masato Kagitani, Chihiro Tao, Tadahisa Kobuna**

Jovian H3+ and H2 auroras: Energy injections into and their transfers between the neutral and plasma atmospheres

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

Using NIR Spectra from Type Ia Supernovae to Explain Dispersion in NIR Light Curves

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**Carey Lisse, Christine Chen, John Rayner, Mike Sitko**

SPeX Study of the Warm Circumstellar Dust in Nearby Planet Forming ExoSystems

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**Myungshin Im, Dohyeong Kim, Jonghak Woo**

Unveiling Intrinsic Properties of Dusty, Red AGN

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**Michael Sitko, Ray Russell, David Lynch, Michael Wolff, Casey Lisse, Heidi Hammel  
Brad Perry  
Suellen Brafford**

Comet Hartley 2 Campaign: 0.44-13 Micron Spectrophotometry using BASS and SpeX - Grain Color, Albedo, Size Distribution, and Mineralogy

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**Jeff Bary, Dawn Peterson**

Monitoring Anomalous Pulsed-Accretion Events in a Young Elliptical Binary: DQ Tau

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**Heidi Hammel, Ray Russell, Michael Sitko, David Lynch**

Neptune spectra at 3-13 microns: Seeking the signature of discrete features

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**Sachindev Shenoy, Yvonne Pendleton, Jean Chiar, Alexander Tielens, Douglas Whittet, Paule Sonnentrucker**

Processing of Icy Grains in the Cepheus A IR Reflection Nebula.

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**Andrew Rivkin, Jessica Sunshine, Charles Hibbitts, Barbara Cohen**

Observations of lunar water: Groundbased complement and extension of spacebased datasets

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**Andrew Rivkin**

LXD-mode observations of M-class asteroids

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**Joshua Schlieder, Michal Simon, Sebastien Lepine**

Revealing Low-Mass Members of Nearby Young Moving Groups

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**Karen Bjorkman, John Wisniewski, Jon Bjorkman**

Probing the Density Structure and Variability of Circumstellar Disks

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**Nial Tanvir, Andrew Levan, Jay Farihi, Klaas Wiersema**

IR spectroscopy of GRB afterglows: finding the most distant sources

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**Lawrence Stromovsky, Patrick Fry**

SpeX observation of Uranus, Neptune, and Jupiter

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**Franck Marchis, Joshua Emery, J. Emilio Enriquez**

Investigating the Relationship Between the Composition of Asteroids and Their Multiplicity.

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**Emily Schaller, Henry Roe, Michael Brown**

Titan's Methane Meteorology: Context for Cassini Flybys T72 & T73

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**Theodor Kostiuk, Timothy Livengood, Kelly Fast, Tilak Hewagama, John Annen, Paul Romani  
David Buhl**

Sun-Jupiter Connection: Aurora, Constituents, and Temperature Beyond Solar Minimum

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**Timothy A. Livengood, Theodor Kostiuk, Kelly E. Fast, Manuela Sornig, John N. Annen, Tilak Hewagama**

Mesospheric Winds of Venus

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**Ming Zhao, Mark Swain, Pieter Deroo, Gautam Vasisht, Glenn Orton**

Dayside spectra of a Very Hot Jupiter with SpeX

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**Andrew Kruger, Matthew Richter, Travis Barman, Andreas Seifahrt**

K Band Spectroscopy of an Extra-Solar Planet

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**Jeffrey Coughlin, Thomas Harrison, Justin Rogers, Mercedes Lopez-Morales, Daniel Apai**

Secondary Eclipse Observations of CoRoT-1b in the Near Infrared (J, H, K)

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**Driss Takir, Josh Emery**

Near-infrared spectroscopy of outer Main Belt asteroids (C-, D-, G-, F-, or B-asteroids)

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**Kenneth Chambers, Paul Price**

Spectroscopic confirmation of redshift  $\sim 7$  quasars selected from the Pan-STARRS PS1 Survey

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**Chad Bender, Gail Schaefer, Michal Simon**

Dynamical Observations of Hyades Cluster Spectroscopic Binaries

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**Ron Vervack, Neil Dello Russo, Mike DiSanti, Hal Weaver, Casey Lisse, Hideyo Kawakita  
Hitomi Kobayashi (grad student)**

A CSHELL/SpeX campaign to investigate the volatile composition of 103P/Hartley 2 in support of the EPOXI mission

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**Christopher Crockett, Naved Mahmud, Lisa Prato, Christopher Johns-Krull, Charles Beichman, Daniel T Jaffe, Patrick Hartigan**

Detecting Extrasolar Planets and Brown Dwarfs in the First 3 Myr

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**Heather Bloemhard, Mark Swain, Michelle Creech-Eakman, Gautam Vasisht, Pieter Deroo, Ming Zhao**

The Next Step: Ground-based NIR Emission and Transmission Spectra of WASP-1b

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**Eliot Young, Mark Bullock, Constantine Tsang, Colin Wilson**

Characterization of Venus' Clouds in Conjunction with VEX and Akatsuki Missions

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**Kerri Donaldson Hanna, Michael Wyatt, Ray Russell**

BASS thermal infrared observations of extreme crustal lithologies on the Moon

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**Michael Liu, Katelyn Allers, Adam Kraus, Evgenya Shkolnik**

Identifying the Missing Young M Dwarfs

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**Michael Cushing, Davy Kirkpatrick, Amy Mainzer, Peter Eisenhardt, Michael Skrutskie, Chris Gelino**

Characterizing the Coolest Brown Dwarfs in the Solar Neighborhood

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**Melissa McClure, Catherine Espaillat, Nuria Calvet, Kevin Luhman**

Composition and Height of the Inner Disk Rims of T Tauri Stars

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**John Spencer, Constantine Tsang, Matt Richter, Thomas Greathouse**

Io's atmospheric pressure and temperature at perihelion

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**Michael Liu, Niall Deacon, Bertrand Goldman, Eugene Magnier**

Rare Brown Dwarfs in the Solar Neighborhood from Pan-STARRS-1

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**Tom Megeath, Marina Kounkel, Charles Poteet, Will Fischer**

A Survey for Multiplicity among Protostars in Orion

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**Michael Liu, Katelyn Allers, Michael Cushing, Niall Deacon**

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

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**William Fischer, S. Thomas Megeath, Charles Poteet, James Muzerolle, Nuria Calvet, Laura Ingleby, Dan Watson, Kyoung Hee Kim, Babar Ali**

Diagnostics of Disk Accretion in Orion Protostars from 1 to 2.4 Microns

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**Bin Yang, David Jewitt**

Near Infrared Spectroscopy of High-Inclination B-type Asteroid Families

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**Karen Meech, Bobby Bus, Gal Sarid, Heather Kaluna (graduate student, IfA)**

Dust Properties and Activity for Comet 103P/Hartley 2, and coordination with Astrobiology Winter School

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**Trent Dupuy, Michael Liu, Brendan Bowler**

Testing Ultracool Atmospheres with Mass Benchmarks

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**Dawn Peterson, Lori Allen, Tyler Bourke, Brenda Matthews**

First Census of Young Brown Dwarfs in Auriga

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