

## Spring 2020 Applications Awarded Time

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**Chick Woodward, Michael S.P. Kelley, David E. Harker, Diane H. Wooden, Michael Sitko**

MIRSI Observations of Comet C/2017 T2 [PanSTARRS] Near Perihelion

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**Hermine Landt, Jake Mitchell, Martin Ward, Maryam Dehghanian, Gary Ferland, Conor Wildy, Karen Leighly, Missagh Mehdipour**

The first near-IR echelle spectroscopic observation of an He I absorber in an AGN

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**Mitsuhiko Honda, Tomohiro Mori, Minako Ogi, Gregory Herczeg, Takashi Shimonishi, Douglas Johnstone, Takashi Miyata, Takashi Onaka**

Tracing Time-Dependent Disk Chemistry of Periodic Outbursting Protostar EC53

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**Amanda Sickafoose, Carlos Zuluaga, Amanda Bosh, Stephen Levine, Michael Person**

Stellar occultations by 315898, Ixion, Pluto, 2017 OF69, 95626, and Hidalgo

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**Constantine Tsang, John Spencer, Thomas Greathouse, Rohini Giles**

Studying Io's Seasonal Atmosphere and Investigating Volcanic Emissions

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**Vishnu Reddy, Juan Sanchez**

Physical Characterization of Small NEOs

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**Richard Cartwright, Tom Nordheim, Francesca Scipioni**

Investigating the origin of NH<sub>3</sub>-bearing species on six mid-sized Saturnian moons

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**Kevin Luhman, Taran Esplin**

Toward a Complete Census of Stars and Brown Dwarfs in Upper Scorpius

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**Michael Line, Matteo Brogi, Jacob Bean, Jennifer Patience, Jean-Michel Desert, Evgenya Shkolnik, Jonathan Fortney, Joseph Zalesky**

Characterizing the Intriguing Atmosphere of a Hot Jupiter with High-Resolution Cross-Correlation Spectroscopy

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**Chick Woodward, Nye Evans, D.P.K. Banerjee, Tom Geballe, Sumner Starrfield, R. Mark Wagner, Fred Walter, R.D. Gehrz**

Outburst and Quiescence: SpeX Observations of Novae

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**Francesca DeMeo, Schelte J. Bus, Michael Marsset, David Polishook, Brian Burt, Richard P. Binzel, Cristina Thomas, Nicholas Moskowitz, Andrew Rivkin**

Spectral Measurements of Spacecraft Mission Candidates and Potentially Hazardous Asteroids

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**Eric Gaidos, Jen van Saders**

Hidden binaries in the Beta Pictoris Moving Group

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**Therese Encrenaz, Thomas Greathouse, Emmanuel Marcq, Hideo Sagawa, Thomas Widemann, Bruno Bezar, Thierry Fouchet, Sushil Atreya, Yeon Joo Lee, Rohini Giles, Sebastien Lebonnois, Franck Lefevre, Shigeto Watanabe**

HDO and SO<sub>2</sub> thermal mapping of the atmosphere of Venus

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**Arrate Antunano, Leigh Fletcher, Thomas Greathouse, Glenn Orton, Henrik Melin, James Sinclair, Pdraig Donnelly, Rohini Giles, James Blake, Michael Roman, Naomi Rowe-Gurney and Oliver King**

Characterizing the rare Jupiter's Equatorial Zone Disturbance and Deep Belt/Zone Structure via Juno-TEXES Comparisons

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**Rohini Giles, Thomas Greathouse, Therese Encrenaz, Amanda Brecht**

The thermal structure of Venus' mesosphere from high resolution observations of CO<sub>2</sub> lines

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**George Rieke, Kate Su, Andras Gaspar, Mike Sitko, Kate Su, Mike Sitko, Andras Gaspar**

Characterizing the Variable Debris Disk Around HD 166191

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**Eliot Young, Mark Bullock, Yeon Joo Lee, Kevin McGouldrick, Con Tsang, Javier Peralta**

Image Cubes of Venus to Characterize Clouds, Cloud Motions and Trace Gas Distributions in Support of the Akatsuki Mission

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**Victoria Villar, Edo Berger, Sebastian Gomez, Griffin Hosseinzadeh, Matt Nicholl, Ryan Chornock, Peter Blanchard, Philip Cowperthwaite, Kate Alexander, Tarraneh Eftekhari, Wen-fai Fong, Raffaella Margutti, Brian Metzger, Elisabeth Newton, Locke Patton, Peter Williams**

IRTF Observations of Gravitational Wave Counterparts

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**Emmanuel Marcq, Franck Lefevre, Therese Encrenaz, Thomas Widemann**

Precision mapping of SO<sub>2</sub>, H<sub>2</sub>O and HDO below the clouds of Venus

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**Graham Harper, Matthew Richter, Thomas Greathouse, Edward Guinan, Edward Montiel, Anita Richards**

A new [Fe II] 17.94 micron emission line gas-phase mass-loss rate estimator for Red Supergiants - II

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**Tom Stallard, Henrik Melin, Luke Moore, James O'Donoghue, Nahid Chowdhury, Emma Thomas**

Chasing Shadows in Jupiter's ionosphere

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**Anicia Arredondo, Humberto Campins, Noemi Pinilla-Alonso**

Spectroscopy of Inner Belt Primitive Asteroid Families

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**Evgenya Shkolnik, Joe Llama, Tyler Richey-Yowell**

Auroral H<sub>3</sub><sup>+</sup> Emission from Exoplanets with iSHELL

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**Joseph Hora, Elaine Winston**

MIRSI Observations of High-Mass Star Formation in the Outer Galaxy

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**Gordon Bjoraker, Michael H. Wong, Tilak Hewagama, Charles Goullaud, Glenn Orton**

Water Clouds and Volatiles on Jupiter Concurrent with Juno

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**Jay Farihi, Carl Melis, Erik Dennihy**

Identifying the brightest dusty white dwarfs for JWST mineralogy

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**Sara Faggi, Michael J. Mumma, Geronimio L. Villanueva, Manuela Lippi**

Comprehensive study of primary volatiles in comet C/2017 T2 PanSTARRS.

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**Douglas Tucker, Sahar Allam, Melissa Butner, Marcelle Soares-Santos, J. Allyn Smith, James Annis, Iair Arcavi, Paulo Barchi, Keith Bechtol, Federico Berlfein, Antonio Bernardo, Dillon Brout, Francisco Foerster Buron, Robert Butler, Hsin-Yu Chen, Chris Conselice, Chris D'Andrea, Tamara Davis, Reinaldo de Carvalho, Jeffrey Cooke, H. Thomas Diehl, Zoheyr Doctor, Alex Drlica-Wagner, Maria Drout, Maya Fishbach, Christopher Fruchter, Alvaro Garcia, Juan Garcia-Bellido, Mercedes Gill, Robert Gruendl**  
IRTF SpeX Spectroscopy of LIGO/Virgo O3 Transients

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**Angela Cotera, Janet Simpson**

Characterizing the Ionizing Stars in Sgr B1 with SpeX

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**Harriet Dinerstein, Nicholas Sterling, William Vacca**

Assessing Planetary Nebulae as Sources of Galactic Neutron Capture Element Enrichment

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**Gordon Bjoraker, Michael H. Wong, Tilak Hewagama, Glenn Orton**

Evolution of Deep Clouds on Saturn

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**Richard Cartwright, Dale Cruikshank, William Grundy, Tom Nordheim, Joshua Emery, Kevin Hand**

Investigating the origin of volatiles on Callisto

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**George Rieke, Attila Moor, Kate Su, andras gaspar, Peter Abraham, Agnes Kospal, Lei Chen**

Search for Silicate Emission Around TYC 4209-1322-1

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**Klaus Hodapp, Bo Reipurth**

Spectroscopic Monitoring of the EXor Outburst of ESO-Ha 99

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**Leslie Young, Will Grundy, Bryan Holler, Eliot Young, Glenn Orton**

Occasional Triton spectra 2020-2023 for rotational and seasonal variability

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**Schelte J. Bus, Francesca DeMeo, Michael Marsset, David Polishook, Brian Burt, Richard P. Binzel, Cristina Thomas, Nicholas Moskovitz, Andrew Rivkin**

Spectral Measurements of Spacecraft Mission Candidates and Potentially Hazardous Asteroids

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**Guido Fuchs, Thomas Giesen, Daniel Witsch, John Lacy, Thomas Greathouse, Bhaswati Mookerjea**

A view on VY Canis Majoris at high spectral resolution: Deciphering the chemical inventory molecule by molecule

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**Wei-Chun Jao, Sergio Dieterich**

Fingerprinting newly selected nearby brown dwarfs in Gaia DR2

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**Maria Messineo, Donald F. Figer, Valentin D. Ivanov, Rosie C.-H Chen, Rolf-Peter Kudritzski, Karl M. Menten, Zhu Quingfeng, Messineo Maria**

Red supergiant stars [RSGs] in the disk of the Milky Way.

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**Maxime Devogele, Paolo Tanga, Alberto Cellino**

Near infra-red spectral study of the Watsonia family.

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**Isabel Rebolledo, Christine Chen, Sean Brittain, Carlos Eiroa, Eva Villaver, Benjamin Montesinos**

Gaseous environment of exocomet-host stars

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**Driss Takir, Joshua Emery**

Near-infrared Spectroscopy of Outer Main Belt Asteroids

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**Silvia Protopapa, Bin Yang, Mike Kelley**

Probing primitive water ice through temporal analysis of cometary comae

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**Nicholas Moskovitz, Richard Binzel, Bobby Bus, Gareth Williams, Davide Farnocchia, David Polishook, Francesca DeMeo, Brian Burt**

IRTF NEO Rapid Response: Close Encounters of the Asteroid Kind

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**Asa Stahl, Christopher Johns-Krull, Laura Flagg**

Confirming a Hot Jupiter Around a Disk-hosting T-Tauri star

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**Miwa Goto, Paola Caselli, Silvia Spezzano, Olli Sipilae, Jorma Harju**

Ultra high cosmic ray ionization rate on OMC-2 FIR 4

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**Megan Mansfield, Michael Line, Jacob Bean, Matteo Brogi, Eliza Kempton, Emily Rauscher**

The first definitive C/O ratio determination for a sub-Jovian exoplanet

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**Bryan Holler, Leslie Young, Will Grundy, Cathy Olkin, Silvia Protopapa**

Investigating Temporal Changes on Pluto's Northern Hemisphere

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**David Neufeld, Miwa Goto, Tom Geballe, Rolf Guesten, Karl Menten, Helmut Wiesemeyer**

L- and M-band line survey of the young planetary nebula NGC 7027 at high spectral resolution with iSHELL

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**Ellen Howell, Ronald Vervack, Yan Fernandez, Mary Hinkle, Agata Rozek**

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

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**Mohammad Saki, Erika Gibb, Michael DiSanti, Neil Dello Russo, Boncho Bonev, Ron Vervack, Nathan Roth, Younas Khan, Adam McKay, Hideyo Kawakita**

A Study of Volatile Compositions and Possible Asymmetries in C/2017 T2 [PanSTARRS]

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**James Blake, Leigh Fletcher, Thomas Greathouse, Glenn Orton, James Sinclair, Henrik Melin, Arrate Antunano, Mike Roman, Padraig Donnelly, Naomi Rowe-Gurney, Oliver King**

Saturn after the summer solstice: the seasonal progression of the northern hemisphere

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**Christian Tate, Julie Rathbun, Alexander Hayes, John Spencer, Paul Corlies, Christian Tate, Julie Rathbun, John Spencer, Alexander Hayes, Paul Corlies**

High Cadence Imaging of Io's Volcanos to Understand the Influence of the Jovian Magnetosphere and the Periodicity of Loki

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**Sierra Grant, Catherine Espaillat, Nuria Calvet, Sean Brittain**

Accretion onto Intermediate-mass Stars

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**Paul Corlies, Alexander Hayes, Patricio Rojo, Mate Adamkovics, Elizabeth Turtle, Sebastien Rodriguez, Jonathan Mitchell, Jonathan Lunine, Juan Lora**

Continued investigation of seasonal changes in Titan's meteorology through cloud monitoring with IRTF SpeX

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**Bo Reipurth**

A ToO study of young stars with major eruptions

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**Richard Smart, Federico Marocco, William Cooper, Adam Burgasser, Davy Kirkpatrick, Mike Cushing, Juan Carlos Beamin, Luis Sarro, Jose Caballero, Celine Reyle, Eric Mamajek, Hugh R. A. Jones, Jacqueline Faherty, Kelle Cruz, Maria Rosa Zapatero-Osorio, Nicolas Lodieu**

Completing the spectroscopic characterisation of all L0--L5 dwarfs within 30 pc of the Sun

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**Allison McGraw, Vishnu Reddy, Juan Sanchez**

Observational Campaign of the Gefion Asteroid Family

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**David Polishook, Francesca DeMeo, Nicholas Moskovitz, Richard Binzel**

And something blue: searching for 'wet' and active Bennu-like asteroids in the main belt

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**Andrea Banzatti, Sean Brittain, Andrew Watkins, Stanley Jensen, John Rayner, Michael Sanchez, Kirsten Abernathy, Ivan Vazquez**

An ISHELL Atlas of Molecular Spectra of Herbig Disks

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**David Polishook, Nicholas Moskovitz**

Did the Martian Trojans originate from impact ejecta from Mars itself?

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**David Trilling, Joseph Hora, Michael Mommert, Howard Smith, Andy Lopez**

Observations of Near Earth Objects with the newly refurbished MIRS I

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**Stanley Jensen, Sean Brittain, John Carr, Joan Najita**

New Epoch in Periodic Monitoring of Protoplanetary Disks in Search of Planet Signatures

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**Bryson Cale, Peter Plavchan, Eric Gaidos, Johanna Teske, Angelle Tanner**

Radial Velocity Follow Up of Extrasolar Planet Candidates Orbiting Cool Low Mass Stars Identified With TESS

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**Lauren McGraw, Josh Emery, Cristina Thomas, Andy Rivkin**

Search for 3-micron features on near-Earth Asteroids

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**Melissa Shahbandeh, Eric Hsiao, David Sand, Mark Phillips, Saurabh Jha, Chris Ashall, Edward Baron, Chris Burns, Scott Davis, Francisco Forster, Lluís Galbany, Peter Hoeflich, Sahana Kumar, Jing Lu, Howie Marion, Nidia Morrell, Anthony Piro, Max Stritzinger, Nicholas Suntzeff, Syed Ashraf Uddin**

SpeX NIR spectroscopy of Infant Type Ia supernovae

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**Adwin Boogert, Karl Kaess, Matt Richter**

A High Resolution Monitoring Survey of Protoplanetary Disks

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**Lea Marcotulli, Meenakshi Rajagopal, Marco Ajello, Sean Brittain, Stefano Marchesi**

Chasing supermassive black holes at the dawn of the Universe

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**David Rubin**

Complementing HST Observations for Improved SN Ia Distances

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**Michael Connelley, Christian Flores**

T Tauri Temperature Anomaly: Why Does the Temperature Depend on the Observed Wavelength?

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**Carey Lisse, Mike Sitko, Massimo Marengo, Stephen Kane, Steve Desch**

IRTF/SpeX Characterization of TESS Solar System-Like Targets of Interest

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**Christian Flores, Michael Connelley**

The origin of magnetic fields in low-mass young stars

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**Carey Lisse, Mike Sitko, Hans Moritz Gunther, Scott Wolk**

IRTF Time Domain Observations of the RW Aurigae A TTauri 'Planet Eating' System

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**Zhoujian Zhang, Michael Liu, Eugene Magnier, William Best**

COCONUTS: COol Companions ON Ultrawide orbiTS

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**Mingjie Jian, Noriyuki Matsunaga, Alan Tokunaga, Naoto Kobayashi, Daisuke Taniguchi, Scarlet Saez Elgueta, Chikako Yasui**

Direct measurements of helium in globular cluster M4 with the chromospheric 10830A line

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**Cristina Thomas, Joshua Emery, Lauren McGraw, Andrew Rivkin, Margaret McAdam**

A Search for 3-um Features on Nominally Anhydrous Main Belt Asteroids

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**Carey Lisse, Mike Sitko, Massimo Marengo, Miles Lucas**

IRTF/SpeX Monitoring of Tabby's Star, the KIC 8462852 Extreme Lightcurve System

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**Daisuke Taniguchi, Noriyuki Matsunaga, Mingjie Jian, Scarlet Saez Elgueta, Alan Tokunaga, Naoto Kobayashi, Chikako Yasui**

Measuring the radial metallicity gradient of the Galactic disk with red supergiants

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**Adwin Boogert**

The IRTF Survey of Ices toward Embedded Massive Young Stellar Objects

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**Kishalay De, Matthew Hankins, Mansi Kasliwal, Ryan Lau, J. Sokoloski, M. Ashley, A. Babul, R. M. Lau, A. Moore, E. O. Ofek, M. Sharma, J. Soon, R. Soria, K. Tinyanont, T. Travouillon**

SpeX follow-up of infrared transients detected by Palomar Gattini-IR

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**Rachel Smith, Adwin Boogert**

Using iSHELL to Explore Carbon Monoxide Reservoirs and Variability in Massive Young Stellar Objects

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**Myriam Pajuelo, Mirel Birlan, Benoit Carry, Francesca DeMeo, Jerome Berthier, Frederic Vachier**

Spectral characterization of small binary asteroids

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