

## Astronomy

Session **P**

Room: 106 Spalding Lab

|                    |                                                                       |                                                                                                                          |                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:30 - 10:50 AM   | <b>Indie E. Desiderio-Sloane</b><br><i>Ray F. Jurgens SURF Fellow</i> | Investigating the nature of an unusual supernova: Spectroscopic classification, light curve modeling, and dust formation | Mansi M. Kasliwal<br><i>Professor of Astronomy</i><br>Sam Rose<br><i>Graduate Student in Astrophysics</i>                                                                                                                                             |
| 10:50 - 11:10 AM   | <b>Maya D. Edelstein</b>                                              | The influence of planetary mass on mean-motion resonance type in Kepler and TESS multi-planet systems                    | Fei Dai<br><i>Assistant Professor of Astronomy, University of Hawaii</i><br>Zhecheng Hu<br><i>Graduate Student in Astronomy, Tsinghua University</i><br>Rob B. Phillips<br><i>Fred and Nancy Morris Professor of Biophysics, Biology, and Physics</i> |
| 11:10 - 11:30 AM   | <b>Avni Bansal</b><br><i>Flintridge Foundation SURF Fellow</i>        | Understanding the cataclysmic variable population in the globular cluster 47 Tucanae                                     | Kareem J. El-Badry<br><i>Associate Professor of Astronomy</i><br>Geoffrey Mo<br><i>Carnegie-Caltech Brinson Postdoctoral Scholar Fellowship Trainee in Astronomy</i>                                                                                  |
| 11:30 - 11:50 AM   | <b>Anica J. Ancheta</b>                                               | Identifying and characterizing dipper stars in Taurus                                                                    | Eric J. Gaidos<br><i>Professor, Department of Earth Sciences, University of Hawaii at Manoa</i><br>Gabriella Zsidi<br><i>Postdoctoral Researcher, University of Hawaii at Manoa</i><br>Andrew W. Howard<br><i>Professor of Astronomy</i>              |
| 11:50 AM - 1:00 PM | <b>LUNCH</b>                                                          |                                                                                                                          |                                                                                                                                                                                                                                                       |
| 1:00 - 1:20 PM     | <b>Lev Tartakovskyi</b>                                               | Detecting short period transiting brown dwarfs in ZTF                                                                    | Matthew J. Graham<br><i>Research Professor of Astronomy</i><br>Sam Whitebook<br><i>Graduate Student in Physics</i>                                                                                                                                    |

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| 1:20 - 1:40 PM | <b>Kristiano Sleiman</b><br>University of California,<br>Los Angeles                 | Interpreting AGN and<br>star-formation diagnostics in<br>5MUSES: A sampling-aware<br>comparison of PAH equivalent<br>width and optical/infrared<br>variability | George Helou<br><i>Research Professor of Physics</i><br>Thomas Lai<br><i>Staff Scientist in IPAC</i>                                                                                                                                                                                                                                                        |
| 1:40 - 2:00 PM | <b>Saina Nikmehr</b><br><i>Stephen Adelman Memorial<br/>SURF Fellow</i>              | Searching for rare transients<br>from complementary views:<br>A multi representation<br>normalizing-flow framework for<br>astronomical surveys                 | Mansi M. Kasliwal<br><i>Professor of Astronomy</i><br>Ashish Mahabal<br><i>Deputy Director, Caltech Center<br/>for Data-Driven Discovery</i><br>Michael Coughlin<br><i>Associate Professor of Physics<br/>and Astronomy, University of<br/>Minnesota</i><br>Argyro Sasli<br><i>Postdoctoral Researcher in<br/>Astrophysics, University of<br/>Minnesota</i> |
| 2:00 - 2:20 PM | <b>Mason G. DuBois</b><br><i>Edward C. Stone Voyager<br/>SURF Fellow</i>             | Characterizing dust from<br>extragalactic Wolf-Rayet binary<br>candidates with the James<br>Webb Space Telescope                                               | Ryan Lau<br><i>Staff Scientist in IPAC</i><br>Mansi M. Kasliwal<br><i>Professor of Astronomy</i>                                                                                                                                                                                                                                                            |
| 2:20 - 2:30 PM | <b>BREAK</b>                                                                         |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                             |
| 2:30 - 2:50 PM | <b>Harold Wang</b><br><i>Northern California<br/>Associates SURF Fellow</i>          | Distinguishing gap transients<br>from Type Ia and II supernovae<br>using photometric classification                                                            | Mansi M. Kasliwal<br><i>Professor of Astronomy</i><br>K-Ryan Hinds<br><i>Postdoctoral Scholar Research<br/>Associate in Astronomy</i>                                                                                                                                                                                                                       |
| 2:50 - 3:10 PM | <b>Kiera E. Aston</b>                                                                | Variability in broad emission line<br>components of potential<br>intermediate-mass black holes                                                                 | Grace M. Olivier<br><i>Postdoctoral Fellow, Carnegie<br/>Institute for Science</i><br>Michael E. Brown<br><i>Richard and Barbara Rosenberg<br/>Professor of Planetary<br/>Astronomy</i>                                                                                                                                                                     |
| 3:10 - 3:30 PM | <b>Alice Zou</b><br><i>Hugh F. and Audy Lou Colvin<br/>International SURF Fellow</i> | Aluminum among the meteors:<br>Quantifying and tracking the<br>rising impact of space debris<br>reentries                                                      | Randy Pollock<br><i>Chief Scientist/Engineer for<br/>Space Research, Victoria<br/>University of Wellington</i><br>Paul D. Asimow<br><i>Eleanor and John R. McMillan<br/>Professor of Geology and<br/>Geochemistry</i>                                                                                                                                       |
| 3:30 - 3:50 PM | <b>Mariana V. Vale Taveira</b><br><i>Samuel P. and Frances<br/>Krown SURF Fellow</i> | Spatially resolved star formation<br>histories of fast radio burst host<br>galaxies using Keck Cosmic Web<br>Imager                                            | Vikram Ravi<br><i>Professor of Astronomy</i><br>Stella K. Ocker<br><i>Brinson Postdoctoral Scholar<br/>Fellowship Trainee in<br/>Astronomy</i>                                                                                                                                                                                                              |

3:50 - 4:10 PM

***Maria J. Sanchez Rincon***  
*David L. Glackin Memorial*  
*SURF Fellow*

Searching for successes and  
failures of the latest high-  
redshift galaxy models

Charles L. Steinhardt  
*Assistant Professor of Physics,*  
*University of Missouri*  
Dimitri P. Mawet  
*David Morrisroe Professor of*  
*Astronomy; Senior Research*  
*Scientist, JPL*