

Astronomy

Session **R**

Room: B125 Baxter

1:00 - 1:20 PM	Yann C. Terrien Institut d'Optique Graduate School	Precision Light Control and Tracking for High-resolution Infrared Spectroscopy at the Diffraction Limit With Keck-HISPEC	Dimitri P. Mawet <i>David Morrisroe Professor of Astronomy; Senior Research Scientist, JPL</i> Ashley Baker <i>Instrument Scientist in Astrophysics</i> Nemanja Jovanovic <i>Lead Instrument Scientist in Astronomy</i>
1:20 - 1:40 PM	Ariana M. Pearson University of Waterloo	Implementation of a Control Algorithm for a Tip-tilt Mirror for Beam Jitter Correction	Dimitri P. Mawet <i>David Morrisroe Professor of Astronomy; Senior Research Scientist, JPL</i> Susan Redmond <i>David and Ellen Lee Postdoctoral Scholar Research Associate in Astronomy</i>
1:40 - 2:00 PM	Sage J. Santomenna Pomona College	Refined Characterization of Brown Dwarf Binary Gliese 229B With Sika	Dimitri P. Mawet <i>David Morrisroe Professor of Astronomy; Senior Research Scientist, JPL</i> Jerry Xuan <i>Graduate Student in Astrophysics</i>
2:00 - 2:20 PM	Hannah Röttgen Ludwig-Maximilians-University (LMU)	Enhancing Binary Black Hole Simulations Through Adaptive Mesh Refinement	Saul A. Teukolsky <i>Robinson Professor of Theoretical Astrophysics</i> Mark A. Scheel <i>Research Professor of Physics</i> Nils Vu <i>Sherman Fairchild Postdoctoral Scholar Research Associate in Theoretical Astrophysics</i>

2:20 - 2:40 PM	Maria F. Gonzalez	Modeling Core-collapse Supernovae Beyond Shock Breakout	David Vartanyan <i>NASA Hubble Fellow, Carnegie Observatories</i> James W. Fuller <i>Assistant Professor of Theoretical Astrophysics</i> Daichi Tsuna <i>Sherman Fairchild Postdoctoral Scholar Research Associate in Theoretical Physics</i>
2:40 - 2:50 PM	BREAK		
2:50 - 3:10 PM	Ruimian Zheng Columbia University	Realistic Baryon-ejection From the Recoil of Magnetar Giant Flares	Elias R. Most <i>Assistant Professor of Theoretical Astrophysics</i> Yuan Feng <i>Graduate Student in Physics</i>
3:10 - 3:30 PM	Sam W. Solod DePaul University	Spectral-motivated Grid Refinement Criterion for GRMHD Simulations	Elias R. Most <i>Assistant Professor of Theoretical Astrophysics</i> Nils Vu <i>Sherman Fairchild Postdoctoral Scholar Research Associate in Theoretical Astrophysics</i> Yoonsoon Kim
3:30 - 3:50 PM	Melvin Storbacka KTH Royal Institute of Technology	A Reaction Network for Probing Strangeness Equilibration in Neutron Star Mergers	Elias R. Most <i>Assistant Professor of Theoretical Astrophysics</i> Jiaxi Wu <i>Graduate Student in Physics</i>
3:50 - 4:10 PM	Josie C. Carrillo Amherst College <i>Carl F. Braun WAVE Fellow</i>	Investigating the Optical Variability in BAL and Non-BAL Quasars as a Parametrizing Factor for BAL Classification	Matthew J. Graham <i>Research Professor of Astronomy</i>
4:10 - 4:30 PM	Sufia Birmingham Princeton University	Investigating Changing-Look AGN Subpopulations With Unsupervised Machine Learning Techniques	Matthew J. Graham <i>Research Professor of Astronomy</i>