

Physics

Session **V**

Room: 100 Powell-Booth

10:40 - 11:00 AM	Ryan M. Hamerly <i>David L. Goodstein SURF Fellow</i>	Deformation of a Black Hole Event Horizon by Radially Infalling Particles	Yanbei Chen <i>Assistant Professor of Physics</i>
11:00 - 11:20 AM	Eric T. Mintun	Properties of Pseudocrystals, a Class of Self-Similar Structures Without Long-Range Translational Order	Paul J. Steinhardt <i>Professor of Physics, Princeton University</i> Kenneth G. Libbrecht <i>Professor of Physics</i>
11:20 - 11:40 AM	Casey C. Glick <i>Caltech-HKU Exchange</i>	Electrorheological Fluid-Based Microfluidic Logic Gates	Weijia Wen <i>Associate Professor of Physics, Hong Kong University of Science and Technology</i>
11:40 AM - 1:00 PM	LUNCH		
1:00 - 1:20 PM	Daniil Feldman <i>Karen and James Cutts SURF Fellow</i>	An Optical Spectroscopic Database of Infrared Galaxies in the Bootes Field of the NOAO Deep Wide-Field Survey	B. Thomas Soifer <i>Professor of Physics</i> Vandana R. Desai <i>Postdoctoral Scholar in Physics</i>
1:20 - 1:40 PM	John C. Forbes	Distribution of Star Formation in Intermediate Redshift Galaxies	B. Thomas Soifer <i>Professor of Physics</i> Jason L. Melbourne <i>Postdoctoral Scholar in Astrophysics</i>
1:40 - 2:00 PM	Chao Liu <i>The Associates SURF Fellow</i>	Detection of B-Mode Polarization in the Cosmic Microwave Background Using BICEP2: Vacuum Window Construction and Performance	Andrew E. Lange <i>Marvin L. Goldberger Professor of Physics</i>
2:00 - 2:20 PM	Cindy X. You <i>Rose Hills Foundation SURF Fellow</i>	Automated Analysis of Visual Field Defects	Wolfgang Fink <i>Visiting Associate in Physics; Senior Researcher, JPL</i>
2:20 - 2:30 PM	BREAK		

2:30 - 2:50 PM	Deepthi Gopal	Finding Optimal Measurements for Quantum State Discrimination Problems	John P. Preskill <i>John D. MacArthur Professor of Theoretical Physics</i> Stephanie D. Wehner <i>Postdoctoral Scholar in Computer Science</i>
2:50 - 3:10 PM	Edward H. Chen <i>The Aerospace Corporation SURF Fellow</i>	Quantum Optomechanical Systems	H. Jeff Kimble <i>William L. Valentine Professor and Professor of Physics</i> Dalziel J. Wilson <i>Graduate Student in Physics</i>
3:10 - 3:30 PM	Paul A. Fleiner <i>Caltech-University of Iceland Exchange</i>	Fabrication of Bragg Gratings for Plasmonic Waveguides at Optical Wavelengths	Kristjan Leosson <i>Professor of Physics, University of Iceland</i>
3:30 - 3:50 PM	Huiling Chen	Characterizing Microscale Optical Dipole Traps for Cavity Quantum Electrodynamics	H. Jeff Kimble <i>William L. Valentine Professor and Professor of Physics</i> Cindy A. Regal <i>Robert A. Millikan Postdoctoral Scholar in Experimental Physics</i>