

Physics

Session **S**

Room: B133 Baxter

10:30 - 10:50 AM	Esme R. Offner	Supernova classification and host subtraction for DESI spectra	Antonella Palmese <i>Assistant Professor of Physics, Carnegie Mellon University</i> Xander Hall <i>Graduate Student in Physics, Carnegie Mellon University</i> Mansi M. Kasliwal <i>Professor of Astronomy</i>
10:50 - 11:10 AM	Hadwa I. Alruhaili <i>Class of '52 SURF Fellow</i>	Tensor compression for faster electron transport calculations	Marco Bernardi <i>Professor of Applied Physics, Physics, and Materials Science</i> Tommaso Chiarotti <i>Postdoctoral Scholar Research Associate in Applied Physics and Materials Science</i>
11:10 - 11:30 AM	Runqin Chen <i>Karen Roberts and Jim Sagawa SURF Fellow</i>	Solving the Navier-Stokes equation for electron fluids of finite geometries	Marco Bernardi <i>Professor of Applied Physics, Physics, and Materials Science</i> Tommaso Chiarotti <i>Postdoctoral Scholar Research Associate in Applied Physics and Materials Science</i>
11:30 - 11:50 AM	Karen I. Shekyan <i>Dr. Bobbie Parwar and Dr. Babak Parwar SURF Fellow</i>	Calculation and analysis of reduced density matrices for quantum period-finding and integer factorization	Marco Bernardi <i>Professor of Applied Physics, Physics, and Materials Science</i>
11:50 AM - 1:00 PM	LUNCH		
1:00 - 1:20 PM	Haitong Lian	How do rattlesnake rattles make sound?	Chiara Daraio <i>G. Bradford Jones Professor of Mechanical Engineering and Applied Physics; Investigator, Heritage Medical Research Institute</i> Xiaoxiao Xiong <i>Graduate Student in Physics</i>

1:20 - 1:40 PM	Sainiket Panyam	Chirality-induced effects on magnetism in helical nanowires and torus knots	Charudatta Phatak <i>Division Director, Argonne National Laboratory</i> John Fullerton <i>Postdoctoral Researcher, Argonne National Laboratory</i> Julia R. Greer <i>Ruben F. and Donna Mettler Professor of Materials Science, Mechanics, and Medical Engineering</i>
1:40 - 2:00 PM	Yi Wei Yang <i>Dr. Alan K. Marumoto SURF Fellow</i>	Fully-coupled oscillations of perturbed Kerr-Newman black holes	Yanbei Chen <i>Professor of Physics</i> Colin M. Weller <i>Graduate Student in Physics</i>
2:00 - 2:20 PM	Constantin J. Cedillo-Vayson de Pradenne	Restrictions on non-Clifford fault tolerance and ruling out beyond-SQL quantum metrology	Jordan Cotler <i>Assistant Professor of Physics, Harvard University</i> Robert Huang <i>Assistant Professor of Theoretical Physics; William H. Hurt Scholar</i>