

Physics

 Session **R**

Room: 115 Gates-Thomas

1:00 - 1:20 PM	Pritvik Sinhadc <i>Robert L. Blinkenberg SURF Fellow</i>	Energy scale of sphalerons	Harvey B. Newman <i>Professor of Physics</i>
1:20 - 1:40 PM	Alyna X. Tang <i>Robert L. Blinkenberg SURF Fellow</i>	Developing photon reconstruction algorithm for the muon collider	Harvey B. Newman <i>Professor of Physics</i> Kiley E. Kennedy <i>Dicke Postdoctoral Fellow in Physics</i>
1:40 - 2:00 PM	Katherine A. Avanesov <i>Taylor Lawrence SURF Research Fellow</i>	Search for long-lived particles with HCAL segmentation in CMS at the Large Hadron Collider	Harvey B. Newman <i>Professor of Physics</i> Kiley E. Kennedy <i>Dicke Postdoctoral Fellow in Physics</i>
2:00 - 2:20 PM	Medha S. Ravi <i>Carl F. Braun SURF Fellow</i>	Photon pointing at a muon collider using 3D ECAL segmentation and machine learning	Harvey B. Newman <i>Professor of Physics</i> Kiley E. Kennedy <i>Dicke Postdoctoral Fellow in Physics</i>
2:20 - 2:40 PM	Zilan Xiong	Investigating methods for constraining cosmological parameters in the Pantheon+ analysis	Charles L. Steinhardt <i>Assistant Professor of Physics, University of Missouri</i> Philip F. Hopkins <i>Ira S. Bowen Professor of Theoretical Astrophysics</i>
2:40 - 3:00 PM	Mitchell J. Agris	Integration and testing of components for the ATLAS High Luminosity Upgrade to the Large Hadron Collider	Caterina Vernieri <i>Assistant Professor of Particle Physics and Astrophysics, Stanford University/SLAC</i> Michele Papucci <i>Research Professor of Theoretical Physics</i>
3:00 - 3:10 PM	BREAK		
3:10 - 3:30 PM	Ahaan Shetty <i>Mellon Mays SURF Fellow</i>	Phase space formulation of quantum optics for measurement-device-independent quantum key distribution	Maria Spiropulu <i>Shang-Yi Ch'en Professor of Physics</i> Raju Valivarthi <i>Research Scientist in Quantum Science and Technology</i>

3:30 - 3:50 PM

Shreyas Singh
David L. Glackin Memorial
SURF Fellow

Dispersion compensation for
entanglement distribution in
quantum networks

Maria Spiropulu
Shang-Yi Ch'en Professor of
Physics
Raju Valivarthi
Research Scientist in Quantum
Science and Technology
Prathwiraj Umesh
Visiting Graduate Student in
Physics

3:50 - 4:10 PM

Karen I. Shekyan
W.H. Halpenny SURF Fellow

Automating the measurement of
high rate entanglement at INQNET

Maria Spiropulu
Shang-Yi Ch'en Professor of
Physics
Raju Valivarthi
Research Scientist in Quantum
Science and Technology