

2:40 - 2:50 PM

BREAK

Physics Session

Room:	103 Downs		
1:00 - 1:20 PM	Mikhail Mints Arthur R. Adams SURF Fellow	Fragmentation Is Efficiently Learnable by Quantum Neural Networks	John P. Preskill Richard P. Feynman Professor of Theoretical Physics Eric R. Anschuetz Sherman Fairchild Postdoctoral Scholar Research Associate in Theoretical Physics
1:20 - 1:40 PM	Yuvan Anand Ernest R. Roberts SURF Fellow	Observable-projected Ensembles	John P. Preskill Richard P. Feynman Professor of Theoretical Physics Alexey Milekhin IQIM Postdoctoral Scholar Research Associate in Theoretical Physics Sara Murciano
1:40 - 2:00 PM	Charvi Goyal Larson Scholar	A Quasi-polynomial-time Classical Algorithm for Lindbladian Evolution	John P. Preskill Richard P. Feynman Professor of Theoretical Physics Thomas Schuster Sherman Fairchild Postdoctoral Scholar Research Associate in Theoretical Physics
2:00 - 2:20 PM	Arul R. Mazumder Carnegie Mellon University	Early Fault-Tolerant Quantum Algorithms for Matrix Functions via Trotter Extrapolation	John P. Preskill Richard P. Feynman Professor of Theoretical Physics Samson Wang IQIM Postdoctoral Scholar Research Associate in Theoretical Physics
2:20 - 2:40 PM	Christine Li Columbia University	Universal High-rate Quantum Fault-tolerance via Transversal Dimension Jumping	John P. Preskill Richard P. Feynman Professor of Theoretical Physics Qian Xu Sherman Fairchild Postdoctoral Scholar Research Associate in Theoretical Physics

2:50 - 3:10 PM	Thomas E. Eyres University of Cambridge Caltech-Cambridge Exchange	A Novel Application of a Frequency Tracking Technique to Nanomechanical Resonators for Mass Sensing	Michael L. Roukes Frank J. Roshek Professor of Physics, Applied Physics, and Bioengineering Mert Yuksel Graduate Student in Applied Physics
3:10 - 3:30 PM	Suvinay Goyal University of Illinois at Urbana-Champaign	Commissioning a 100 mK ADR Cryostat for CMB and Line-Intensity Mapping Applications	James J. Bock Marvin L. Goldberger Professor of Physics; Senior Research Scientist, JPL Kenny Lau Postdoctoral Scholar Research Associate in Physics
3:30 - 3:50 PM	Dallin E. Soukup Dr. Alan Weinstein SURF Fellow	Evaluating the Feasibility of External Tracers of Aurora Contamination in SPHEREx Data	James J. Bock Marvin L. Goldberger Professor of Physics; Senior Research Scientist, JPL Chi Nguyen Postdoctoral Scholar Research Associate in Physics
3:50 - 4:10 PM	Aura H. Gamez Pasadena City College Carl F. Braun WAVE Fellow	Characterizing the Intrinsic Three Dimensionality of CHEX-MATE Galaxy Clusters Using the Sunyaev-Zel'dovich Effect	Jack Sayers Research Professor of Physics Adriana Gavidia Graduate Student in Physics
4:10 - 4:30 PM	Waly M Z Karim University of Rochester	Searching for Pulsation in Low Mass Stars Using Supervised Learning Techniques	James W. Fuller Assistant Professor of Theoretical Astrophysics Rocio Kiman Sherman Fairchild Postdoctoral Scholar Research Associate in Astronomy