

Structure of the Universe

*129th Topical Symposium of the
New York State Section of the American Physical Society
University at Albany – SUNY*

nyssaps.org

Schedule of Events

Friday, April 5, 2024

6:30 PM – 7:30 PM Executive Committee Meeting (ETEC 107)

Saturday, April 6, 2024

8:30 AM – 9:00 AM Reception/Badge Pickup (ETEC Foyer)

9:00 AM – 9:15 AM Welcoming Remarks (ETEC 149A/151A)

9:15 AM – 9:45 AM *Under the Shadow of the Moon: Eclipses (Then and Now), and Why
They Are Still Worth Dropping Everything For*
Mindy Townsend
Department of Physics and Astronomy, Siena College

9:45 AM – 10:15 AM *Isotopic Systems in Iron Meteorites: Keys to the Early Solar System*
Heather Watson
Physics and Astronomy Department, Union College

10:15 AM – 10:30 AM Break

10:30 AM – 11:00 AM *Supernovae in the Precision Astronomy Epoch*
Shing Chi Leung
Mathematics and Physics Department, SUNY Polytechnic Institute

11:00 AM – 11:30 AM *Dynamical Mass Estimates for Supercluster-Scale Filaments*
Mary Odekon
Physics Department, Skidmore College

11:30 AM – 12:30 PM Lunch (ETEC Foyer)

12:30 PM – 1:00 PM *WIMPs and Axions and Extra Dimensions, Oh My!*
Matthew Szydagis
Department of Physics, University at Albany

1:00 PM – 1:30 PM *Detecting Dark Matter: LZ and the Snowball Chamber*
Cecilia Levy
Department of Physics, University at Albany

1:30 PM – 2:00 PM	<i>A Close Look at the Galactic Ecosystem with the Hubble Space Telescope</i> Yong Zheng Department of Physics, Applied Physics, and Astronomy, Rensselaer Polytechnic Institute
2:00 PM – 2:15 PM	Break
2:15 PM – 2:45 PM	<i>Gravitational Wave Scattering</i> Robert Penna Mathematics and Physics Department, SUNY Polytechnic Institute
2:45 PM – 3:15 PM	<i>Improved Models and AI Methods for Exoplanet Characterization</i> Kevin Knuth Department of Physics, University at Albany
3:15 PM – 5:00 PM	Poster Session (ETEC Foyer)
5:00 PM – 6:00 PM	Banquet (ETEC Foyer)
6:00 PM – 6:45 PM	<u>Keynote Presentation:</u> <i>The Milky Way Galaxy is in Disequilibrium?</i> Heidi Newberg Department of Physics, Applied Physics, and Astronomy, Rensselaer Polytechnic Institute
6:45 PM – 7:00 PM	Award Presentations