



# 15th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2025) Madison Wisconsin June 9-13

## Monday, June 9, 2025

### Particle and Nuclear Astrophysics: Parallel 2 (3:30 PM - 5:10 PM)

-Conveners: James Allmond

time	[id] title	presenter
3:30 PM	[128] Constraining the $^{15}\text{O}$ ( $\alpha$ , $\gamma$ ) $^{19}\text{Ne}$ reaction rate in Type I X-ray bursts using GADGET II TPC	MAHAJAN, Ruchi
3:52 PM	[129] Nuclear Astrophysics With High Intensity Beams At LENA II	MARSHALL, Caleb
4:14 PM	[181] Nuclear Astrophysics Research with the MUSIC Detector at ATLAS and FRIB	LOPEZ SAAVEDRA, Eilens
4:36 PM	[227] Efforts to incorporate neutrino oscillation in merger simulations	GHOSH, Somdutta

# Tuesday, June 10, 2025

## Particle and Nuclear Astrophysics: Parallel 4 (3:30 PM - 5:00 PM)

-Conveners: Eilens Lopez Saavedra

time	[id] title	presenter
3:30 PM	[71] Detecting Solar Neutrinos and Fermionic Dark Matter with $^{136}\text{Xe}$ in nEXO	RICHARDSON, Glenn
3:48 PM	[65] Widen the Resonance: Probing a New Regime of Neutrino Self-Interactions with Astrophysical Neutrinos	ZHOU, Bei
4:06 PM	[72] Supernova Detection with IceCube and the IceCube Upgrade	BENZVI, Segev
4:24 PM	[45] Direct Nuclear Parameter Estimation From Gravitational Waves	REED, Brendan
4:42 PM	[139] Neutron Star Equation of State Measurements from Binary Mergers	GAMBA, Rossella

## Particle and Nuclear Astrophysics: Parallel 9 (7:00 PM - 8:48 PM)

-Conveners: Luke Johns

time	[id] title	presenter
7:00 PM	[191] Prospects for detecting gamma rays from r-process producing Magneto-Rotational Supernovae	LIU, Zhenghai
7:18 PM	[178] Ultra-High-Energy Cosmic Ray: Current Picture and Future Outlook.	MAYOTTE, Eric
7:36 PM	[203] Status of the Radar Echo Telescope	PROHIRA, steven
7:54 PM	[109] First Deuteron Production Measurement in Proton-Proton Interactions at SPS Energies by NA61/SHINE	SHUKLA, Anirvan
8:12 PM	[196] Precision Mass Measurements with the Canadian Penning Trap: From CARIBU to the N=126 Factory	LIU, Biying

# Thursday, June 12, 2025

## Particle and Nuclear Astrophysics: Parallel 7 (2:00 PM - 3:30 PM)

-Conveners: Sherwood Richers

time	[id] title	presenter
2:00 PM	[7] Neutrino Self-Interaction in Core-Collapse Supernovae	SULIGA, Anna
2:18 PM	[8] Local-equilibrium theory of neutrino oscillations in supernovae and mergers	JOHNS, Luke
2:36 PM	[166] Quantum Closures and Riemann Solvers for Neutrino Moment Transport	Dr KNELLER, Jim
2:54 PM	[171] Towards Many-Body Models of Neutrino Flavor Instability	RICHERS, Sherwood
3:12 PM	[235] Predicting the outcome of neutrino flavor instabilities	FROUSTEY, Julien