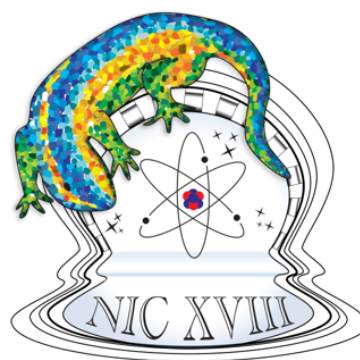


## Session Program

15–20 Jun 2025



# International Symposium on Nuclei in the Cosmos XVIII (NIC XVIII)

## *Gravitational Waves and Nuclear Astrophysics*

Girona  
Palau de Congressos de Girona Pg. de la Devesa, 35 17001 Girona

Friday 20 June

11:00

Gravitational Waves and Nuclear Astrophysics

Session | Location: Girona, Palau de Congressos de Girona Pg. de la Devesa, 35 17001 Girona

11:00–11:30 Exploring dense matter physics with gravitational wave detections of neutron stars

Speaker  
Dr Lami Suleiman

11:30–11:45 Quark-Matter Equation of State Effects during Binary Neutrons Star Mergers

Speaker  
Grant Mathews

11:45–12:00

Inference of multi-channel r-process element enrichment in the Milky Way using neutron star merger observations

Speaker  
Hsin-Yu Chen

12:00–12:15 Gravitational Waves and Nucleosynthesis of Binary Neutron-Star Simulations

Speaker  
Giuseppe Riveccio

12:15–12:30

Constraining Skyrme-based neutron star equation of state from multi-messenger observations

Speaker  
Arunava Mukherjee

12:30–12:45

3D core-collapse supernova models with phenomenological treatment of neutrino flavor instabilities

Speaker  
Kanji Mori

12:45