



# The 17th International Symposium on Origin of Matter and Evolution of Galaxies

## Sunday, 8 September 2024

### Theoretical Nuclear Physics for Astrophysics (11:10 - 12:15)

-Conveners: Kevin Insik Hahn

time	[id] title	presenter
11:10	[46] Origin of r- and nu-process elements in cosmic evolution and nuclear physics	KAJINO, Toshitaka
11:35	[95] Relativistic density functional theory and the origin of the elements	MENG, Jie
12:00	[130] Reduction of $^{146}\text{Sm}$ - $^{142}\text{Nd}$ chronology in the early solar system	QIAN, Yibin

### Theoretical Nuclear Physics for Astrophysics (15:30 - 16:00)

-Conveners: Andreas Best

time	[id] title	presenter
15:30	[62] Deep learning for nuclear masses in deformed relativistic Hartree-Bogoliubov theory in continuum	CHOI, Soonchul
15:45	[39] High Energy Neutrinos from Binary Neutron Star Mergers and Rare Core-Collapse Supernovae	GUO, Gang

# Monday, 9 September 2024

## Theoretical Nuclear Physics for Astrophysics (13:30 - 14:55)

-Conveners: Yifei Niu

time	[id] title	presenter
13:30	[70] Neutrino Oscillations and Nucleosynthesis of Heavy Elements	WU, Meng-Ru
13:55	[44] Improved proton capture reaction rates in the rp-process	HOU, Suqing
14:10	[42] Stellar weak-interaction rates of nuclei by angular-momentum projection theory	WANG, Long-Jun
14:25	[38] r-process Nucleosynthesis in the Common Envelop Jet Supernovae	JIN, Shilun
14:40	[73] Radiative $\alpha$ capture on $^{12}\text{C}$ in cluster effective field theory	ANDO, Shung-Ichi