Nuclear physics across energy scales

Friday, 19 September 2025

Morning Session (09:30 - 12:30)

  -Conveners: Michal Heller

time	[id] title	presenter
09:30	[1] Surprises and challenges in the QCD phase diagram	Prof. FUKUSHIMA, Kenji
10:00	[2] Investigating nuclear structure with LHCb and SMOG2	Prof. GRAZIANI, Giacomo
10:30	Coffee Break	
11:00	[3] Diffusion models for lattice field theory	Prof. AATS, Gert
11:30	[4] An improved formula for spin polarization at local thermodynamic equilibrium	Prof. BECATTINI, Francesco
12:00	[5] Overview for AMPT and nuclear structure	Prof. LIN, Zi-Wei

Saturday, 20 September 2025

<u>Morning Session</u> (09:00 - 12:00)

-Conveners: HuiChao Song

time	[id] title	presenter
09:00	[10] Understanding Xe isotopes near A=130 from the prolate-oblate shape phase transition	Prof. ZHANG, Yu
09:30	[11] Mystery of Calcium production in the first generation stars	Prof. HE, JianJun
10:00	Coffee Break	
10:30	[12] Light nuclei structure by lattice effective field theory	Prof. SHEN, Shihang
11:00	[13] Imaging shapes of atomic nuclei from large to small via high-energy nuclear collisions	Prof. ZHANG, Chunjian
11:30	[14] Probe the nuclear shape with relativistic heavy ion collisions	Prof. ZHAO, ShuJun

Sunday, 21 September 2025

<u>Morning Session</u> (09:00 - 12:00)

-Conveners: Guang-You Qin

time	[id] title	presenter
09:00	[19] SRC study with multiple probes	Prof. YE, Zhihong
09:30	[20] Engineering shape of QGP droplets by comparing flow in small symmetric-asymmetric collisions	Prof. JIA, Jiangyong
10:00	Coffee Break	
10:30	[21] Machine learning density functional theory for atomic nuclei	Prof. ZHAO, Pengwei
11:00	[22] Probing nuclear structure in heavy-ion reactions: similarities between subbarrier fusion and relativistic HIC	Prof. HAGINO, Kouichi
11:30	[23] Alpha Cluster Formation and Decay in Nuclei	Prof. XU, Chang