



# The 1st International Workshop on Physics at High Baryon Density (PHD2024, 第一届高重子密度物理国际研讨会)

Saturday, 2 November 2024

Flash Talks (5 + 5 min Q&A) - Conference Room at 1st floor (15:30 - 16:10)

-Conveners: Hao Qiu

time	[id]	title	presenter
15:30	[15]	Chiral Symmetry for an Accelerated and Rotated Observer	ZHU, Zhi-Bin
15:40	[16]	Extended Nambu-Jona-Lasinio Model for Quark and Nuclear Matters	CAO, Gaoqing
15:50	[17]	Gluon Matter Under Rotation	JIANG, Yin
16:00	[18]	Exploring the Nuclear Shape Transition in Ultra-Relativistic Xe + Xe Collisions at LHC	ZHAO, Shujun

## Sunday, 3 November 2024

### Flash Talks (5 + 5 min Q&A) - Conference Room at 1st floor (11:40 - 12:10)

-Conveners: CHI YANG

time	[id] title	presenter
11:40	[29] Topological Machine Learning on Intermittency	WANG, Rui
11:50	[30] Dynamics of the Conserved Net-baryon Density Near QCD Critical Point Within QGP Profile	WU, Shanjin
12:00	[34] Critical Fluctuations and Correlations of Quark Spin in Hot and Dense QCD Matter	CHEN, Hao1ei

### Flash Talks (5 + 5 min Q&A) - Conference Room at 1st floor (15:20 - 16:00)

-Conveners: Weijie Fu

time	[id] title	presenter
15:20	[35] Baseline for Net-Baryon Cumulant in Rapidity Scan	LI, Jianing
15:30	[36] Relaxation Time Approximation Revisited and Non-Analytical Structures in Retarded Correlators	HU, Jin
15:40	[37] AMPT Model Studies of Net-Baryon Number Fluctuations in High Temperature and Density QCD Matter	CHEN, Qian
15:50	[38] Softening of the Hypertriton Transverse Momentum Spectrum in Heavy-Ion Collisions	LIU, Daineng

# Monday, 4 November 2024

Flash Talks (5 + 5 min Q&A) - Conference Room at 1st floor (11:30 - 12:30)

-Conveners: Yapeng Zhang

time	[id] title	presenter
11:30	[49] Neutron Star and Quark Star in the Multi-messenger Era	CAO, Zheng
11:40	[50] Extended Skyrme Effective Interactions for Transport Models and Neutron Stars	WANG, Sipei
11:50	[51] Studying Chirality Imbalance with SU(2) Non-Abelian Gauge Field Theory via Quantum Computation	GUO, Xingyu
12:00	[52] Investigating Dark Matter in Antiproton Cosmic Rays and Searching for Antimatter in Cosmic Rays with DAMPE	XU, Zhihui
12:10	[53] Polyakov Loop Potential and QCD Thermodynamics at Finite Density	LU, Yi
12:20	[54] Role of Stopping and Diffusion of Baryons in BES Phenomenology	PARIDA, Tribhuban