



# 10th Asian Triangle Heavy-Ion Conference - ATHIC 2025

## Wednesday 15 January 2025

### Parallel C: High Baryon Density (09:00 - 10:40)

time	[id] title	presenter
09:00	[212] Neutron star physics in the multi-messenger era	Dr MALLICK, Ritam
09:18	[213] Impact of Dissipation on the Dynamics of Neutron Star Mergers	SARKAR, sreemoyee
09:36	[34] Implications of Gravitational Waves Data on Dark Matter Admixed Neutron Stars	Dr MALIK, Tuhin
09:49	[37] Axion effects on the nonradial oscillations of neutron stars	Dr KUMAR, Deepak
10:02	[144] Deciphering accretion-driven starquakes in recycled millisecond pulsars using gravitational waves	NATH, Kamal Krishna
10:15	[88] SYMMETRIC AND ASYMMETRIC PROPERTIES OF NEUTRON STAR	PANDA, ANSUP KUMAR
10:28	[137] Gravitational Wave Signatures of Spin-Polarized Dense Matter in Neutron Stars	DAS, Biswarup

### Parallel C: QCD Phase Diagram (11:00 - 12:40)

time	[id] title	presenter
11:00	[15] The role of the pion mass on the QCD phase diagram in the $T$ - $eB$ plane	Dr CHOWDHURY, Aminul Islam
11:13	[54] Fluctuations and correlations of net-conserved quantities at LHC energies with ALICE	SAHA, Swati
11:26	[31] Induced electric field due to thermoelectric effects in an evolving quark-gluon plasma	SINGH, Kamaljeet SAHOO, Raghunath
11:33	[36] Modelling Finite Volume Effects in the QCD Phase Diagram	Dr SHAIKH, Adiba
11:40	[78] Chiral cross-over in Hadron Resonance Gas model	BISWAS, Deeptak
11:53	[41] Studying liquid-gas phase transition under the effect of rotation in a hadron resonance gas	PRADHAN, Kshitish Kumar
12:00	[42] QCD Phase Diagram: QGP and Neutron Star Cores	Mr KHANNA, Vibhor
12:08	[70] Investigations of event-by-event fluctuations of mean transverse momentum ( $\langle p_{\text{T}} \rangle$ ) in pp collisions at $\sqrt{s} = 13$ TeV with PYTHIA8 and HERWIG7 models	ROY, Subhadeep
12:15	[76] Higher order cumulants of net-particle distributions in pp collisions at $\sqrt{s} = 13$ TeV using Pythia and Herwig	BEHERA, Nirbhay Kumar
12:22	[81] Understanding flavor mixing from the curvature of chiral crossover line	Dr ALI, Mahammad Sabir

### Parallel C: QCD Phase Diagram (14:10 - 16:15)

time	[id] title	presenter
14:10	[145] Transport properties of hot hadronic matter in heavy ion collisions.	MOHAPATRA, Ranjita

14:28	[132] Hybrid Regression and Explainable AI for Phase Transition Analysis of two flavour Quark Matter	MUKHERJEE, Tamal Kumar
14:41	[90] Studying the onset of Dimensional Reduction in finite temperature QCD and its consequences	TAH, Swagatam
14:54	[93] Precision measurement of (Net-)proton Number Fluctuations in Au+Au Collisions from BES-II Program at RHIC-STAR	MONDAL, Bappaditya
15:07	[95] Proton Intermittency analysis in Au + Au Collisions: Exploring Critical Behavior in the FAIR Energy Range	Dr SHARMA, Anjali
15:14	[99] Production of light nuclei in Au+Au collisions from STAR BES-II	BEHERA, Sibaram
15:27	[126] Pionic and thermodynamic properties of hot QCD with two flavours from an effective field theory approach	SEN, Pritam
15:40	[133] System size, energy and event shape dependence of the mean transverse momentum fluctuations with ALICE at the LHC	TRIPATHY, Tulika
15:53	[142] Energy Evolution of QGP under two loop correction at finite chemical potential	SOMORENDRO SINGH, Shougaijam
16:00	[139] Exploring Event-by-Event $p_{\text{T}}$ Fluctuations in pp Collisions at $\sqrt{s} = 13$ TeV: An Insights from ALICE	NAYAK, Tapan