

Session Program

13-16 Jan 2025

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

Parallel B

Wednesday 15 January

09:00

Parallel B: Collectivity Chair: Dong Jo Kim

Session | **Location:** Mayfair Palm Beach Resort, Gopalpur-On-Sea, Berhampur, Odisha

09:00–09:18 **Spin alignment of vector mesons in heavy-ion collisions**

Speaker

Prof. Qun Wang

09:18–09:25

Kubo formula for a dissipative spin hydrodynamic framework with spin chemical potential as the leading order term in the hydrodynamic gradient expansion

Speaker

Prof. Arpan Das

09:25–09:32

Thermal diffusion properties of a rotating QGP medium

Speaker

Shubhalaxmi Rath

09:32–09:39

Shear evolution in non-resistive magnetohydrodynamics with momentum dependent relaxation time

Speaker

Sunny Singh

09:39–09:46

Anisotropic Electrical Conductivity in Rotating Hadron Gas

Speaker

Ms Nandita Padhan

09:46–09:59

Elucidating QGP at finite baryon density with (3+1)D Bayesian analysis at the RHIC Beam Energy Scan program

Speaker

Ms Syed Jahan

09:59–10:06

Causal third-order viscous hydrodynamics from kinetic theory

Speaker

Ms Pushpa Panday

10:06–10:13

Viscous effects of a hot QGP medium in time dependent magnetic field and their phenomenological significance

Speaker

Gowthama K K

10:13–10:26

Rapidity scan with DCCI at LHC energy

Speaker

Shin-ei Fujii

10:26–10:39

Double-slit experiment at the femtometer scale with ALICE

10:40

Speaker

Dr Arvind Khuntia

11:00

Parallel B: Collectivity. Chair: Maya Shimomura**Session** | **Location:** Mayfair Palm Beach Resort, Gopalpur-On-Sea, Berhampur, Odisha

11:00-11:13

Global spin polarization of Λ and $\overline{\Lambda}$ hyperons in Au+Au collisions at RHIC-STAR**Speaker**

Tan Lu

11:13-11:31

Recent results on light nuclei and hypernuclei production at RHIC**Speaker**

Chitrasen Jena

11:31-11:44

Probing the hottest droplet of fluid through correlations and fluctuations of collective observables**Speaker**

Rupam Samanta

11:44-11:51

Insights into Nuclear Modification Factors in O-O collisions at LHC energies with a transport model**Speaker**

Debadatta Behera

11:51-12:04

Diffusion coefficient matrix for multiple conserved charges: a Kubo approach**Speaker**

Sourav Dey

12:04-12:11

Relativistic second-order spin hydrodynamics: A correlation function approach using Zubarev's non-equilibrium statistical operator**Speaker**

Mr Abhishek Tiwari

12:11-12:18

Investigating the Chiral Magnetic Wave at RHIC-STAR**Speaker**

Ms Ankita Singh Nain

12:18-12:25

Production of Light Nuclei in Heavy-Ion Collisions using Hadron Resonance Gas Model**Speaker**

Dr Sabita Das

12:40

14:10

Parallel B: Collectivity. Chair: Raghunath Sahoo**Session** | **Location:** Mayfair Palm Beach Resort, Gopalpur-On-Sea, Berhampur, Odisha

14:10-14:28

Lambda directed flow for validating the Lambda potential from chiral EFT: Bridging heavy-ion collisions, hypernuclei, and neutron stars**Speaker**

Asanosuke Jinno

14:28-14:41

Selected results from isobar collisions at RHIC**Speaker**

Dr Vipul Bairathi

14:41-14:48

Azimuthal anisotropic flow measurements in Au+Au collisions using RHIC BES-II data**Speaker**

Prabhupada Dixit

14:48-14:55

Exploring the flow harmonic correlations via multi-particle symmetric and asymmetric cumulants in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV**Speaker**

Mr Kaiser Shafi

14:55-15:02

Longitudinal spin polarization with dissipative corrections**Speaker**

Soham Banerjee

15:02-15:09

Bose-Einstein correlations of charged hadrons in RHIC and LHC energies**Speaker**

Mohammad Mondal

15:09-15:16

Energy and baryon emission surfaces in relativistic heavy ion collisions via HBT Correlations**Speaker**

Mr Arkadip Mukherjee

15:16-15:29

Dependence of directed flow on system size and net conserved charges from quark coalescence in heavy-ion collisions**Speaker**

Dr Kishora Nayak

15:29-15:36

Exploring transverse momentum fluctuations via study of $v_{\{0\}}(p_{\{T\}})$ in the AMPT and PYTHIA model**Speaker**

Debasish Mallick

15:36-15:43

Study of identified particle production as a function of transverse event activity classifier, $S_{\{T\}}$ in p-p collisions**Speaker**

Rahul Verma

15:43-15:50

Characterization of flavor dependence of Chiral Magnetic Effect with multiple correlators**Speaker**

Mr Somdeep Dey

15:50-15:57

Enhancing Signal Identification in Rare Higgs Boson Decay to $Z\gamma$ and Complex Decay Processes at LHC Energies**Speaker**

Ms Manisha Kumari

16:17

16:35

Parallel B: Collectivity. Chair: Prabhat Pujahari**Session** | **Location:** Mayfair Palm Beach Resort, Gopalpur-On-Sea, Berhampur, Odisha

16:35-16:53

Photons as a probe of the strongly interacting matter in heavy ion collisions**Speaker**

Rupa Chatterjee

16:53-17:11

Baryon dynamics from recent measurements on directed flow and polarisation**Speaker**

Subhash Singha

17:11-17:18

Phenomenology of baryon stopping and diffusion at RHIC BES**Speaker**

Mr Tribhuban Parida

17:18-17:31

Enhancing Bayesian parameter estimation by simultaneously adapting to multiple energy-scales with RHIC and LHC data**Speaker**

Maxim Virta

17:31-17:38

Hadron production at centre of mass energies 62.4, 200 and 2760 GeV , RHIC and LHC energies through recombination model**Speaker**

Somenath Pal

17:38-17:45

An investigation of forward-backward correlations in hybrid UrQMD-hydro generated data**Speaker**

Somen Gope

17:45-17:52

Investigation of the cluster structures in light nuclei through photon flow in O+O collisions at LHC energies

Speaker

Sanchari Thakur

18:00