

Session Program

4-6 Sept 2025

Hot QCD Matter 2025 (Series 3)

Parallel Session

Lecture Hall Complex, IIT Bhilai, L106
Department of Physics, IIT Bhilai, Kutelabhata, Durg, Chattisgarh 491002

Thursday 4 September

14:40

Parallel Session: Parallel Session 1

Session | Location: Lecture Hall Complex, IIT Bhilai, L107, IIT Bhilai | Convener: Chitrasen Jena

14:40–15:00 Phase transitions in a rotating hadron resonance gas

Speaker
Kshitish Kumar Pradhan

15:00–15:15 Kinematic Discriminants of Double Parton Scattering in Vector Boson Final States at LHC

Speaker
Anuraag Rathore

15:15–15:30 Pseudorapidity Density Distribution of Charged Particles and System Size in Heavy-Ion Collision

Speaker
Neeraj

15:30–15:45 Investigation of Breakdown and Timing Performance in Post-Irradiated Multiple JTE-Guarded 4H-SiC LGADs Using TCAD

Speaker
Mr Jaideep Kalani

15:45–16:00 Heavy Flavor Jet Quenching in Pb-Pb Collisions Using JETSCAPE Framework

Speaker
Ms Manaswini Priyadarshini

16:00–16:15 Gain and Ion Backflow Analysis in a Proposed Triple GEM Geometry Using ANSYS and Garfield++

Speaker
Sachin Rana

16:15

14:40

Parallel Session: Parallel Session 2

Session | Location: Lecture Hall Complex, IIT Bhilai, L108 | Convener: Vikash Kumar Ojha

14:40–15:00 Sensitivity of Multi-Particle Azimuthal Correlations and Rapidity-Even Dipolar flow to α -Clustering in $\sqrt{s_{NN}} = 200$ GeV Collisions

Speaker
Mr Kaiser Shafi

15:00-15:15

Probing conserved charge dynamics via HBT interferometry in relativistic heavy-ion collisions**Speaker**

ARKADIP MUKHERJEE

15:15-15:30

Extracting the baryon diffusion coefficient of the hot and dense strongly interacting matter with Bayesian method**Speaker**

Aradhana Panday

15:30-15:45

Spin alignment of vector mesons in relativistic heavy-ion collisions**Speaker**

Bhagyarathi Sahoo

15:45-16:00

Higher-order thermoelectric effects in hot and dense interacting hadron gas in the presence of a magnetic field**Speaker**

Kamaljeet Singh

16:15

Friday 5 September

14:40

Parallel Session: Parallel Session 3

Session | **Location:** Lecture Hall Complex, IIT Bhilai, L106, Department of Physics, IIT Bhilai, Kutelabhata, Durg, Chattisgarh 491002 | **Convener:** Dr Ajay Kumar Rai

14:40-15:00	Validity of relativistic hydrodynamics beyond local equilibrium Speaker Mr Reghukrishnan Gangadharan
15:00-15:15	Transport coefficients of anisotropic quark matter Speaker Mr Dhananjay Singh
15:15-15:30	Electric, thermal and thermoelectric response of a hot pion gas in a time dependent background magnetic field Speaker Ankit Kumar
15:30-15:45	Quarkonium potential in QCD medium with momentum dependent relaxation time Speaker Sunny Kumar Singh
15:45-16:00	Mass Predictions for Ω_{bc} and Ω_{bc}^{\prime} Baryons in a Quark-Diquark Rotating String Picture Speaker Pooja Jakhad
16:00-16:15	Impact of D meson loop on J/ψ mass shift in nuclear medium Speaker Manpreet Kaur

16:15

14:40

Parallel Session: Parallel Session 4

Session | **Location:** Lecture Hall Complex, IIT Bhilai, L107 | **Convener:** Arvind Kumar

14:40-15:00	Neutron star equation of state from the Bayesian analysis Speaker Dr Deepak Kumar
15:00-15:15	Wiedemann-Franz law Violation in Graphene and Quark Matter Speaker Ms Thandar Zaw Win

15:15-15:30

Probing Dynamical Electrical Conductivity via Dilepton Emission: A Kinetic theory approach**Speaker**

Mr Ashutosh Dwivedi

15:30-15:45

Thermoelectric power in graphene and quark-gluon plasma systems**Speaker**

Mrs Subhalaxmi Nayak

16:00-16:15

Transport coefficients of compressed baryonic matter at finite magnetic field**Speaker**

Dani Rose J Marattukalam

16:15

14:40

Parallel Session: Parallel Session 5**Session** | **Location:** Lecture Hall Complex, IIT Bhilai, L108 | **Convener:** Sidharth Kumar Prasad

14:40-15:00

Heavy quark potential in the presence of momentum anisotropy at finite magnetic field**Speaker**

Dr Indrani Nilima

15:00-15:15

Cold nuclear matter effects on charmonium production in RHIC and LHC energy domain**Speaker**

Sourav Kanti Giri

15:15-15:30

Performance studies of GEM detectors for future heavy ion experiment**Speaker**

Mr SUBIR MANDAL

15:30-15:45

Recent results on two particle correlation measurements at LHC energy**Speaker**

Mintu Haldar

15:45-16:00

Impact of external magnetic field on magnetic moment of Ξ baryon resonances**Speaker**

Utsa Dastidar

16:00-16:15

Probing the initial state and evolution of isobaric systems in relativistic nuclear collisions**Speaker**

Amit Paul

16:15