



INDIAN INSTITUTE OF TECHNOLOGY (IIT) BHILAI

Hot QCD Matter 2025 (Series 3)

4-6 September 2025

LHC, IIT Bhilai, Durg, Chhattisgarh 491002, India

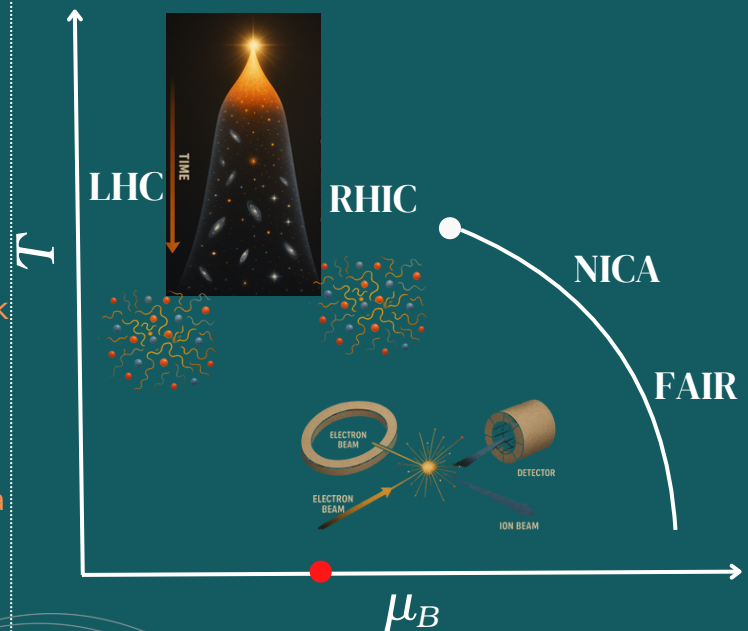


Scientific Topics

- Heavy-ion physics at high baryon density, with relevance to future facilities CBM (Germany) and NICA (Russia)
- Heavy-ion physics at high Temperature, explored through experimental efforts at RHIC (BNL, USA) and LHC (CERN, Europe)
- Thermodynamics and Transport properties of quark and hadronic matter
- Physics opportunities with the upcoming Electron-Ion Collider (EIC, USA)
- Experimental probes of the Quark Gluon Plasma (QGP)
- Interdisciplinary connections with Astrophysics and compact star physics
- Emerging applications of machine learning (ML) and artificial intelligence (AI) in high energy nuclear physics

Local Organizing Committee

- Sabyasachi Ghosh (IIT Bhilai)
- Santosh Kumar Das (IIT Goa)
- Sesha Vempati (IIT Bhilai)
- Pravesh Chandra Shukla (IIT Bhilai)



Student Volunteers

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|---------------------|----------------------------|
| ● Utkarsh Patel | ● Subhalaxmi Nayak |
| ● Ankit Kumar Panda | ● Dani Rose J Marattukalam |
| ● Thandar Zaw Win | ● Prasanta Murmu |
| ● Ashutosh Dwibedi | ● Anand Rai |