

4th Hot QCD Matter 2026

IISER Tirupati, Dec 13-15

The Hot QCD Matter conference series was launched at IIT Goa in 2022, followed by IIT Mandi in 2024 and IIT Bhilai in 2025. The conference provides a national platform for researchers and students to discuss recent advances in Quark–Gluon Plasma (QGP), Quantum Chromodynamics (QCD), heavy-ion and high-energy particle collisions, advanced detector development, and related areas of experimental and theoretical high-energy nuclear physics.

Scientific Program:

- Jets in hot and dense QCD matter
- Heavy Flavor and Quarkonia
- Electromagnetic probes
- Collectivity and Bulk Dynamics from Small to Large Collision Systems
- QCD phase diagram, Lattice QCD, and Neutron Stars
- Initial state and Non-Equilibrium Dynamics
- Machine Learning and AI for High-Energy and Nuclear Physics
- Advanced Detector Technologies and Instrumentation in High Energy Physics
- Physics Opportunities in ep and eA Collisions: From HERA to the EIC



Local Organising Committee:

Prof. Santanu Bhattacharya (Patron)
Arunima Banerjee (IISER Tirupati)
Chitrasen Jena (IISER Tirupati) [Co-convener]
Nihar Ranjan Sahoo (IISER Tirupati) [Co-convener]
Sayantan Sharma (IMSc, Chennai)
Santosh Kumar Das (IIT Goa)

Webpage: <https://indico.global/event/18540/>

Contact: hotqcdmatter2026@labs.iisertirupati.ac.in

Important Dates:

Registration open: **3 Sep 2026**
Abstract submission open: **3 Sep 2026**
Abstract submission close: **1 Oct 2026**
Results of abstract selection: **15 Oct 2026**
Student support Results : **15 Oct 2026**
Early Bird Registration deadline : **1 Nov 2026**
Late Registration deadline : **15 Nov 2026**

National Advisory Committee:

Ankhi Roy, IIT Indore
Basanta Kumar Nandi, IIT Bombay
Bedangadas Mohanty, NISER Bhubaneswar
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