

Session Program

2-8 Nov 2025



42nd International Symposium on Lattice Field Theory (Lattice 2025)

Plenary session

TIFR Mumbai, Homi Bhabha Auditorium

Tata Institute of Fundamental Research, 1, Homi Bhabha Road, Navy Nagar, Colaba, Mumbai, India. Pin -
400 005

Monday 3 November

09:00

Plenary session: Opening Ceremony followed by Plenary Talks

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Andreas Kronfeld

09:00–09:15 **Opening remarks**

09:15–10:00 **Muon $g-2$: hadronic contributions with lattice QCD**

Speaker

Aida El-Khadra

10:00–10:45

Data-driven methods for the hadronic contributions to the muon $g-2$: status and perspectives

Speaker

Martin Hoferichter

10:45

11:15

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Stephen Sharpe

11:15–11:45

BMW/DMZ calculation of the hadronic vacuum polarisation for the muon magnetic moment

Speaker

Finn Stokes

11:45–12:30

Hadron spectroscopy and interactions

Speaker

Jeremy Green

12:30–13:00

Nucleon-nucleon interactions: past, present, and future

Speaker

Amy Nicholson

13:00

Tuesday 4 November

09:30

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Sourendu Gupta

09:30–10:15

Lattice QCD at finite temperature and density

Speaker

Heng-Tong Ding

11:00

10:15–11:00

Experiment and Lattice: Understanding High-Temperature QCD Matter

Speaker

Bedangadas Mohanty

11:30

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Rajiv V Gavai

11:30–12:00

Spectral Properties of the Quark-Gluon Plasma from Lattice QCD

Speaker

Dibyendu Bala

12:00–12:30

Non-perturbative QCD thermodynamics with $N_f=3$ up to the electroweak scale

Speaker

Michele Pepe

12:30–12:50

ILDG

Speaker

Christian Schmidt-Sonntag

12:50–13:00

LAVA

Speaker

Simon Hands

13:00

Thursday 6 November

09:15

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Anthony Kennedy

09:15–09:50

Machine learning for lattice gauge theories

Speaker

Urs Wenger

10:35

09:50–10:35

Machines and Exascale computing

Speaker

Stefan Krieg

11:05

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Robert Mawhinney

11:05–11:45

Quantum Simulation of Gauge Theories for Particle and Nuclear Physics: Past, Today, and Future

Speaker

Zohreh Davoudi

11:45–12:25

Quantum simulation of lattice gauge theories

Speaker

Marcello Dalmonte

13:15

12:25–13:15

Panel discussion on Future of Computing

Speaker

Robert Mawhinney

Friday 7 November

09:15

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Leonardo Giusti

09:30–10:15

Lattice Gauge Theory Contributions to Quark Flavour Physics

Speaker

Gregorio Herdoiza

11:00

10:15–11:00

Hadron Structure in the Context of the EIC Program

Speaker

Constantia Alexandrou

11:30

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Constantia Alexandrou

11:30–12:00

Lattice Calculations of Neutron Electric Dipole Moment

Speaker

Kehfei Liu

12:00–12:30

Current-Enhanced Excited States in Lattice QCD Three-Point Functions

Speaker

Lorenzo Barca

13:15

12:30–13:15

Wilson Award

Saturday 8 November

09:30

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Masafumi Fukuma

09:30–10:00

Hamiltonian Formalisms of Lattice Gauge Theories

Speaker

Indrakshi Raychowdhury

10:00–10:30

Renormalization group on tensor networks

Speaker

Shinichiro Akiyama

10:30–11:00

Variance-reduction algorithms for lattice QCD

Speaker

Tim Harris

11:00

11:30

Plenary session

Session | **Location:** Homi Bhabha Auditorium | **Convener:** Zohreh Davoudi

11:30–12:00

Status of Compositeness for New Physics from the Lattice

Speaker

Biagio Lucini

12:00–12:30

Three-particle scattering amplitudes from lattice QCD

Speaker

Stephen Sharpe

12:30–13:00

Lattice 2026

13:00