

Session Program

2-8 Nov 2025



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

Hadronic and nuclear spectrum and interactions

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

14:30

Hadronic and nuclear spectrum and interactions

Session | Location: AG66 | Convener: Urs Heller

14:30-14:50

Precisely determining the ground state mass of Spin-3/2 Ω_{ccc} baryon from Lattice QCD

Speaker

Navdeep Singh Dhindsa

14:50-15:10

Studying heavy hadrons with relativistic quarks

Speaker

Archana Radhakrishnan

15:10-15:30

Precision charmonium spectroscopy on CLS ensembles: an update

Speaker

Gunnar Bali

15:30-15:50

Heavy hadron spectrum from 2+1+1 flavor MILC lattices

Speaker

Sabiar Shaikh

15:50-16:10

Mixing of light meson and charmonium flavor singlets in $N_f = 3 + 1$ QCD

Speaker

Juan Andres Urrea Nino

16:10

16:40

Hadronic and nuclear spectrum and interactions

Session | Location: AG66 | Convener: Maxim Mai

16:40-17:00

Charm tetraquarks investigation using CLS lattices

Speaker

M. Padmanath

17:00-17:20

Lattice study of ccus tetraquark channel in $D^{(*)}Ds^{(*)}$ scattering

Speaker

Tanishk Shrimal

17:20-17:40

Importance of local tetraquark operators for the $T_{cc}(3875)^+$ spectrum

Speaker

Andres Stump

17:40-18:00

T_{cc} pole trajectory

Speaker

Protick Mohanta

18:00-18:20

Lattice QCD Investigation of Doubly Bottom and Bottom-Strange Tetraquarks in the Isoscalar Channel

Speaker

Bhabani Sankar Tripathy

18:20

Tuesday 4 November

14:50

Hadronic and nuclear spectrum and interactions

Session | **Location:** AG66 | **Convener:** Felix Benjamin Erben

14:50–15:10

Nucleon to Delta(1232) Resonance Transition Form Factors from Lattice QCD

Speaker

Srijit Paul

15:10–15:30

Towards the time-like pion form factor beyond the elastic regime using domain-wall QCD

Speaker

Gabriele Morandi

15:30–15:50

Two-pion scattering amplitude from Lattice QCD using staggered fermions

Speaker

Adeilton Dean Marques Valois

16:10

16:40

Hadronic and nuclear spectrum and interactions

Session | **Location:** AG66 | **Convener:** Fernando Romero López

16:40–17:00

Two-particle matrix elements in a box

Speaker

Felipe Ortega Gama

17:00–17:20

Bayesian Analysis and Analytic Continuation of Scattering Amplitudes from Lattice QCD

Speaker

Miguel Salg

17:20–17:40

Towards four-pion effects in multi-hadron decays

Speaker

Rajnandini Mukherjee

18:00

Wednesday 5 November

10:50

Hadronic and nuclear spectrum and interactions

Session | Location: Homi Bhabha Auditorium Annex | Convener: Srijit Paul

10:50-11:10

Electromagnetic form factors and structure of the T_{bb} tetraquark

Speaker

Ivan Vujmilovic

11:10-11:30

Born--Oppenheimer Effective Theory for multiquark states

Speaker

Abhishek Mohapatra

11:30-11:50

Adjoint meson and tetraquark static energies using novel BOEFT interpolators

Speaker

Sipaz Sharma

12:00

Thursday 6 November

14:30

Hadronic and nuclear spectrum and interactions

Session | **Location:** AG66 | **Convener:** Jeremy Green

14:30–14:50

Lattice QCD study on kaon-nucleon interactions and Θ^{++} pentaquark on the physical point

Speaker

Kotaro Murakami

14:50–15:10

The $\Lambda(1405)$ at the $SU(3)$ point in lattice QCD

Speaker

Javier Suarez-Sacunga

15:10–15:30

A curious case of a strangeness resonance -- lattice and experiment

Speaker

Maxim Mai

15:30–15:50

Negative parity hyperons from coupled channel scattering

Speaker

Fernando Alvarado

15:50–16:10

Baryon masses with C-periodic boundary conditions

Speaker

Sara Rosso

16:10–16:30

$\bar{D}N$ interaction from Lattice QCD at the physical point

Speaker

Rento Yamada

16:30

Friday 7 November

14:30

Hadronic and nuclear spectrum and interactions

Session | **Location:** AG66 | **Convener:** Amy Nicholson

14:30-14:50

Physical-point lattice QCD study of baryon-baryon interactions in the $S = -1$ channel

Speaker

Koichi Murase

14:50-15:10

Preliminary study of the H dibaryon in $N_f=2+1$ lattice QCD

Speaker

Davide Laudicina

15:10-15:30

Systematic uncertainties in lattice QCD calculations of multi-hadron systems

Speaker

Robert Perry

15:30-15:50

Investigating Quark Mass Dependence of Nuclear Binding

Speaker

Debsubhra Chakraborty

15:50-16:10

Quark mass dependence of the nuclear LS force

Speaker

Takuya Sugiura

16:10

16:40

Hadronic and nuclear spectrum and interactions

Session | **Location:** AG66 | **Convener:** Robert Perry

16:40-17:00

QCD Predictions for Physical Multimeson Scattering Amplitudes

Speaker

Fernando Romero López

17:00-17:20

Three-body study of the T_{cc}^{++} from lattice QCD

Speaker

Andre Baiao Raposo

17:20-17:40

Extending the finite volume formalism to the $N\pi\pi$ system at maximal isospin

Speaker

Stephen Sharpe

17:40-18:00

Emergence of the $\pi(1300)$ Resonance from Lattice QCD

Speaker

Maxim Mai

18:00-18:20

The structure of the lightest positive-parity charmed mesons from LQCD

Speaker

Eric Gregory

18:20