Session Program

2–8 Nov 2025

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

Vacuum structure and confinement

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

Vacuum structure and confinement

Session | **Location:** AG77 | **Convener:** Ivan Horvath

14:30–14:50

The confining string in 3D U(1) gauge theory beyond effective string theory

Speaker
Alessandro Mariani

14:50–15:10

Intrinsic width of the flux tube in 2+1 dimensional Yang-Mills theories

Speaker
Lorenzo Verzichelli

15:10–15:30

Why there is no confinement when vortices proliferate but monopoles do not

Speaker
Mendel Nguyen

15:30–15:50

The simplicity of confinement

Speaker
Biagio Lucini

15:50–16:10

The mass of the Baryon Junction in $(2+1)d$

Speaker
Dario Panfalone

16:10

Tuesday 4 November

14:50

Vacuum structure and confinement

Session | **Location:** AG77 | **Convener:** Shailesh Chandrasekharan

14:50–15:10

Neural-network parametrized ground state optimization for the static quark-antiquark pair

Speaker
Julian Mayer-Steudte

15:10–15:30

Entanglement as a Probe of Flux Tube Structure

Speaker
Rocco Amorosso

15:30–15:50

Entanglement Entropy in Lattice Gauge Systems from a Dual Loop Formulation

Speaker
Adarsh S.

15:50–16:10

Phase diagram of 4D SU(3) Yang-Mills theory at $\theta = \pi$ via imaginary theta simulations

Speaker
Akira Matsumoto

16:10

16:40

Vacuum structure and confinement

Session | **Location:** AG77

16:40–17:00

Update on the computation of the unquenched Yang-Mills lattice spectrum in the 't Hooft limit

Speaker
Andrea Falzetti

17:00–17:20

Direct numerical simulation of 't Hooft partition function and (de)confining phase

Speaker
Okuto Morikawa

17:20–17:40

Meson spectrum and low-energy constants in large-N QCD

Speaker
Claudio Bonanno

18:00