Session Program

26 July 2026 to 1 August 2026

The 43rd International Symposium on Lattice Field Theory (Lattice 2026)

Hadronic and nuclear spectrum and interactions

University of Maryland, College Park
Adele H. Stamp Student Union 3972 Campus Dr College Park, MD 20742, United States

Monday 27 July

14:00

Hadronic and nuclear spectrum and interactions

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Takumi Doi

14:00–14:20

Improving hadron creation operators for charmonium, glueballs and baryons

Speaker
Juan Andres Urrea Nino

14:20–14:40

A Novel Quark Smearing Technique and its Application to Distillation

Speaker
Nilmani Mathur

14:40–15:00

A framework for the automated evaluation of two- and three-point correlation functions using distillation

Speaker
John Bulava

15:00–15:20

Noise reduction for disconnected diagrams

Speaker
Luchang Jin

15:20–15:40

Wave-functions and operator optimization for two hadrons in Lattice QCD

Speaker
Sinya Aoki

15:40

16:10

Hadronic and nuclear spectrum and interactions

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Felipe Ortega Gama

16:10–16:30

The Electromagnetic Form Factor of the Pion at Large Q^2

Speaker
Ian Van Schalkwyk

16:30–16:50

A calculation of the time-like pion form factor via an infinite-volume approach

Speaker
Mr Gabriele Morandi

16:50–17:10

Multi-ensemble analysis of rho resonance

Speaker
Luka Jevsenak

17:10–17:30

Finite temporal size effects on hadronic resonances using lattice QCD

17:30

Speaker
Jakob Hoffmann

Tuesday 28 July

14:00

Hadronic and nuclear spectrum and interactions

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Luchang Jin

14:00–14:20 **Reconstructing spectral densities from integral transforms I**

Speaker
Matteo Saccardi

14:20–14:40 **Reconstructing spectral densities from integral transforms II**

Speaker
Diego Toniolo

14:40–15:00
Spectral reconstruction for reduced excited-state contamination in Euclidean correlators

Speaker
Davide Laudicina

15:00–15:20 **Finite-volume corrections to smeared spectral densities**

Speaker
Francesca Argia Bresciani

15:20–15:40
Systematic uncertainties in spectral reconstruction from lattice correlators

Speaker
Ryutaro Tsuji

15:40

16:10

Hadronic and nuclear spectrum and interactions

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Archana Radhakrishnan

16:10–16:30
Finite-Volume Effects to Meson Masses in QCD+QED with C* Boundary Conditions

Speaker
Klemen Kersic

16:30–16:50 **Finite-Volume Effects to the HVP in QCD with C* Boundary Conditions**

Speaker
Paola Tavella

16:50–17:10 **The pion mass splitting from lattice QCD**

Speaker
Harvey Byron Meyer

17:10–17:30

First-principles determination of anomaly-induced pion decay beyond the chiral limit

Speaker
Tian Lin

17:30

Wednesday 29 July

09:00

Hadronic and nuclear spectrum and interactions: I

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Patrick Oare

09:00–09:20 **Feynman-Hellmann method for four-quark matrix elements**

Speaker
Charles Kacir

09:20–09:40
Resolving vector-current spectral functions with singular value decomposition

Speaker
Sakura Itatani

09:40–10:00 **Improving the Wilson action**

Speaker
Jorge Baeza Ballesteros

10:00–10:20 **Highly improved staggered quarks on anisotropic lattices**

Speaker
Oleksiy Bazavov

10:20–10:40 **Update on the gradient flow scale on CLS ensembles**

Speaker
Wolfgang Söldner

10:40

09:00

Hadronic and nuclear spectrum and interactions: II

Session | **Location:** Adele H. Stamp Student Union, Margaret Brent B, 3972 Campus Dr, College Park, MD 20742 |
Convener: Maxim Mai

09:00–09:20 **Finite-volume quantization condition from the N/D representation**

Speaker
Sebastian Dawid

09:20–09:40 **NN scattering amplitudes at light quark masses**

Speaker
Miguel Salg

09:40–10:00
From lattice QCD to ab initio nuclear physics via finite-volume pionless EFT

Speaker
Rosemary Zielinski

10:00–10:20 **NuLattice: Computations of nuclei on lattices**

Speaker
Matthias Heinz

10:20–10:40 **Nucleon Charges from PNDME and NME Collaboration**

Speaker
Jun-Sik Yoo

10:40

11:10

Hadronic and nuclear spectrum and interactions: I

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Sebastian Dawid

11:10–11:30 **Scattering length in the $O(4)$ non-linear sigma model**

Speaker
Raphael Lehner

11:30–11:50 **A perturbative N-particle finite-volume formalism**

Speaker
Rajnandini Mukherjee

11:50–12:10 **FVU 3-body quantization condition: developments and applications**

Speaker
Maxim Mai

12:10–12:30 **Energy dependence of two-pion transitions**

Speaker
Felipe Ortega Gama

12:30

11:10

Hadronic and nuclear spectrum and interactions: II

Session | **Location:** Adele H. Stamp Student Union, Margaret Brent B, 3972 Campus Dr, College Park, MD 20742 |
Convener: John Bulava

11:10–11:30 **Inclusive P-wave quarkonium decay widths in pNRQCD**

Speaker
Julian Mayer-Steudte

11:30–11:50 **η and η' production in radiative decays of charmonium**

Speaker
Mischa Batelaan

11:50–12:10
Hybrid spin-dependent and hybrid-quarkonium mixing potentials at large quark–antiquark separations from lattice gauge theory

Speaker
Vilija de Jonge

12:10–12:30 **$\omega(782)$ and $\phi(1020)$ from lattice QCD**

Speaker
Haobo Yan

12:30

Thursday 30 July

14:00

Hadronic and nuclear spectrum and interactions

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Rajnandini Mukherjee

14:00–14:20

Analysis of isospin-zero two-pion scattering using rebased GEVP with physical quark masses

Speaker
Clement Charles

14:20–14:40 **Isotensor Three-Pion Scattering from Lattice QCD**

Speaker
Andrew Jackura

14:40–15:00

Two- and three-pion scattering in multiple three-body isospin channels

Speaker
Jacob Sitison

15:00–15:20 **Symmetrizing Three-body Partial-Wave Amplitudes**

Speaker
Nicholas Chambers

15:20–15:40 **Staggered pions in a finite volume and their scattering amplitudes**

Speaker
Dr Adeilton Dean Marques Valois

15:40

16:10

Hadronic and nuclear spectrum and interactions

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Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Sinya Aoki

16:10–16:30 **Diquarks properties from heavy-light tetraquark operators**

Speaker
Fabian Zierler

16:30–16:50 **Update on lattice study of T_{cc}^+ using three-body formalism**

Speaker
Stephen Sharpe

16:50–17:10

Deeply bound T_{bb} and near-threshold BB^* scattering with a relativistic heavy quark action

Speaker
Andres Stump

17:10–17:30

Static energies in the Z_b tetraquark channel using novel BOEFT interpolators

Speaker
Sipaz Sharma

17:30

Friday 31 July

14:00

Hadronic and nuclear spectrum and interactions: I

Session |
Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Michael Wagman

14:00–14:20 **Hyperon forces from lattice QCD at the physical point**

Speaker
Takumi Doi

14:20–14:40 **Nucleon-Nucleon and S = -1 Nucleon-Hyperon Interactions**

Speaker
Malcolm Lazarow

14:40–15:00
Baryon-baryon interactions in the $S = -1$ channel and inelastic contaminations in physical-point lattice QCD

Speaker
Koichi Murase

15:00–15:20
Baryon-Baryon Scattering at the SU(3) Flavor-Symmetric Point from Lattice QCD

Speaker
Joseph Moscoso

15:20–15:40
Lattice QCD study on $S=+1$ kaon-nucleon interactions and the Θ^+ pentaquark at the physical point: updated analysis

Speaker
Kotaro Murakami

15:40

14:00

Hadronic and nuclear spectrum and interactions: II

Session | **Location:** Adele H. Stamp Student Union, Pyon Su, 3972 Campus Dr, College Park, MD 20742 |
Convener: Andrew Jackura

14:00–14:20
T_{cc} from coupled DD* - D*D* scattering incorporating left-hand cuts and local operators

Speaker
Ivan Vujmilovic

14:20–14:40
Precise calculation of the low-lying charmed baryon spectrum on CLS ensembles

Speaker
Archana Radhakrishnan

14:40–15:00
Determination of the Roper resonance with two- and three-body unitarity

Speaker
Jinzi Wu

15:00–15:20
Investigating the role of tetraquark operators in lattice QCD studies of the $a_0(980)$ and $κ$ resonances

Speaker
John Meneghini

15:20–15:40 **Low-Energy $\bar{D}N$ Scattering from Physical-Point Lattice QCD**

Speaker
Wren Yamada

15:40

16:10

Hadronic and nuclear spectrum and interactions

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Location: Adele H. Stamp Student Union, Juan Ramon Jimenez, 3972 Campus Dr, College Park, MD 20742 |
Convener: Joseph Moscoso

16:10–16:30 **Spectral bounds and the design of interpolating operators**

Speaker
William Detmold

16:30–16:50 **Discretization effects in baryon-baryon scattering**

Speaker
Michael Wagman

16:50–17:10
Finite-volume analysis of the H-dibaryon including left-hand-cut effects

Speaker
Lin Qiu

17:10–17:30
The H-dibaryon at $m_\pi \simeq 200~\mathrm{MeV}$ from lattice QCD

Speaker
Juan Fernandez-de la Garza

17:30–17:50 **The fate of Hybrid Charmonium at finite temperature**

Speaker
Juan Andres Urrea Nino

17:50