

Session Program

26 July 2026 to 1 August 2026



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

Structure of hadrons and nuclei

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

Monday 27 July

14:00

Structure of hadrons and nuclei

Session |

Location: Adele H. Stamp Student Union, Benjamin Banneker A, 3972 Campus Dr, College Park, MD 20742 |

Convener: Mr Rui Zhang

14:00–14:20

Parton Distribution Functions of the Nucleon from Twisted Mass Fermions with Physical Pion Mass

Speaker

Gabriele Pierini

14:20–14:40

Proton GPDs from lattice QCD at the physical point

Speaker

Prof. Martha Constantinou

14:40–15:00

Mellin moments of proton unpolarized GPDs at nonzero skewness from lattice QCD with neural networks

Speaker

Manuel Colaço

15:00–15:20

Lattice calculation of Generalized Parton Distribution with large-logarithm resummation at non-zero skewness

Speaker

Jack Holligan

15:20–15:40

The nucleon unpolarized generalized form factors and Mellin moments up to fourth order

Speaker

Christian Kummer

15:40

16:10

Structure of hadrons and nuclei

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Convener: Yong Zhao

16:10–16:30

Pion and Kaon Unpolarized Mellin Moments from Nonlocal Operators

Speaker

Joshua Miller

16:30–16:50

Pion and kaon quark GPDs via LaMET and SDF

Speaker

Joseph Torsiello

16:50–17:10

Moments of pion and kaon light-cone distribution amplitudes from dynamical lattice QCD using the heavy-quark operator product expansion

Speaker

S.-P. Alex Chang

17:10–17:30

Tensor-polarised structure functions of the rho meson from lattice QCD using the Feynman-Hellmann method

Speaker

Nabil Humphrey

17:30

Tuesday 28 July

14:00

Structure of hadrons and nuclei

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Location: Adele H. Stamp Student Union, Benjamin Banneker A, 3972 Campus Dr, College Park, MD 20742 |

Convener: Frank Winter

14:00–14:20

Lattice extraction of the Collins-Soper kernel via auxiliary fields

Speaker

Wayne Morris

14:20–14:40

First constraints on the nonperturbative gluon Collins-Soper kernel

Speaker

Artur Avkhadiev

14:40–15:00

Gluon Collins-Soper Kernel with Coulomb-Gauge Operators

Speaker

Yang Fu

15:00–15:20

Proton TMDPDFs from Lattice QCD Using Domain-Wall Fermions

Speaker

Jinchen He

15:20–15:40

Exploring Color Flows in TMDs: Disconnected Wilson Loops on the Lattice

Speaker

Jyn Peyton

15:40

16:10

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Convener: Yang Fu

16:10–16:30

Computing the Gluon Momentum Fraction of Nucleons on the Lattice through the Gradient Flow

Speaker

Alex Sturzu

16:30–16:50

Gluon Parton Distribution Functions From Boosted Euclidean Correlators in the Coulomb Gauge

Speaker

William Good

16:50–17:10

Toward the lattice calculation of pion gluon GPD

Speaker

Sicheng Liu

17:10-17:30

Perturbative study of higher-moment operators in the Wilson-flow framework on the lattice

Speaker

Dr Gregoris Spanoudes

17:30

Wednesday 29 July

09:00

Structure of hadrons and nuclei

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Location: Adele H. Stamp Student Union, Benjamin Banneker A, 3972 Campus Dr, College Park, MD 20742 |

Convener: Michael Engelhardt

09:00–09:20

Inferring Parton Distributions with Gaussian Processes

Speaker

Yamil Cahuana Medrano

09:20–09:40

Nucleon Unpolarized PDFs from Lattice QCD at Physical Point with High Boost

Speaker

Qi Shi

09:40–10:00

Direct calculation of parton distributions in momentum space from lattice QCD

Speaker

Dr Rui Zhang

10:00–10:20

Bridging Euclidean Methods for Parton Distributions with Machine Learning

Speaker

Alex NieMiera

10:20–10:40

Imaging protons and partons with lattice QCD

Speaker

Joseph Karpie

10:40

11:10

Structure of hadrons and nuclei

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Convener: Jonna Marjaana Koponen

11:10–11:30

Structure functions for lepton-nucleon scattering from four-point functions on the lattice

Speaker

Christian Zimmermann

11:30–11:50

Nachtmann moment of the parity-violating structure function from Feynman-Hellmann

Speaker

Jordan Mckee

11:50–12:10

Proton isovector helicity PDF and the twist-3 moment $\tilde{d}_2$ from lattice QCD at physical quark masses

Speaker
Yong Zhao

12:10–12:30 **Spatial Densities without Form Factors**

Speaker
Prof. Kehfei Liu

12:30

Thursday 30 July

14:00

Structure of hadrons and nuclei

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Location: Adele H. Stamp Student Union, Benjamin Banneker A, 3972 Campus Dr, College Park, MD 20742 |

Convener: Joseph Karpie

14:00–14:20

Decomposition of the nucleon spin and gravitational form factors in the continuum limit directly at physical pion mass

Speaker

Constantia Alexandrou

14:20–14:40

The axial structure of the nucleon with the PACS10 superfine lattice

Speaker

Masato Nagatsuka

14:40–15:00

Nucleon Electromagnetic Form Factors at the Physical Pion Mass from PNDME Collaboration

Speaker

Sungwoo Park

15:00–15:20

Nucleon electromagnetic form factors at large momentum from Lattice QCD

Speaker

Prof. Sergey Syritsyn

15:20–15:40

Optimised Distillation for Nucleon Correlation Functions

Speaker

Joshua Crawford

15:40

16:10

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Convener: Christian Zimmermann

16:10–16:30

Nucleon sigma terms at $m_\pi=222$ MeV with a variational analysis from lattice QCD

Speaker

Lorenzo Barca

16:30–16:50

Direct Determination of the Sigma Terms of the Baryon Octet from $N_{\mathrm{f}} = 2+1$ Lattice QCD with Wilson fermions

Speaker

Pia Leonie Jones Petrak

16:50–17:10

Accessing Nucleon Sigma terms with Gradient Flow

Speaker

Rohith Karur

17:10–17:30

Measuring Mass Splittings in Baryon SU(2) Multiplets

Speaker

Christian Schneider

17:30

Friday 31 July

14:00

Structure of hadrons and nuclei

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Location: Adele H. Stamp Student Union, Benjamin Banneker A, 3972 Campus Dr, College Park, MD 20742 |

Convener: Fangcheng He

14:00–14:20

Instantons from Lattice QCD using Gradient Flow in Pion Form Factors

Speaker

Vaibhav Chahar

14:20–14:40

Toward a continuum limit determination of light meson charge radii with large-volume, physical point $N_f=2+1$ lattice QCD

Speaker

Kohei Sato

14:40–15:00

Electric and magnetic polarizability of pions from four-point functions on nHYP ensembles

Speaker

sudip shiwakoti

15:00–15:20

LMA performance on twisted-mass fermions ensembles at physical pion masses

Speaker

Dr Antonio Evangelista

15:20–15:40

Nonperturbative Hadronic Structure of the Photon

Speaker

Raza Sufian

15:40

16:10

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Convener: Raza Sufian

16:10–16:30

Portraits of Charmoniumlike States

Speaker

Geng Li

16:30–16:50

Radiative decays of charmonia

Speaker

Jonna Marjaana Koponen

16:50–17:10

Update on the calculation of the long-distance π^0 exchange part of the hadronic light-by-light (HLbL) contribution to muon g-2 from RBC-UKQCD.

Speaker

Anton Shcherbakov

17:10–17:30

Hadron structure from Hamiltonian lattice gauge theory with tensor networks

Speaker

Manuel Schneider

17:30