

Session Program

26 July 2026 to 1 August 2026



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

Software development and machines

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

Monday 27 July

14:00

Software development and machines

Session | **Location:** Adele H. Stamp Student Union, Crossland, 3972 Campus Dr, College Park, MD 20742 |
Convener: Xiangyu Jiang

14:00–14:20

A Stabilized FP16 Mixed-Precision Solver

Speaker

Dr Issaku Kanamori

14:20–14:40

Toward Compute-Bound Lattice-QCD Software

Speaker

Anthony Grebe

14:40–15:00

Portability without Code Changes: Scaling QDP-JIT/Chroma via LLVM across NVIDIA, AMD, and Intel GPUs

Speaker

Frank Winter

15:00–15:20

PerfAdvisor: An LLM-based Agent for Diagnosing Bottlenecks from GPU Systems Profiles

Speaker

Leon Hostetler

15:20–15:40

First experiences operating and using ILDG 2.0

Speakers

Gunnar Bali, Giovanni Pederiva

15:40

16:10

Software development and machines

Session | **Location:** Adele H. Stamp Student Union, Crossland, 3972 Campus Dr, College Park, MD 20742 |
Convener: Gunnar Bali

16:10–16:30

Use QUDA with Python

Speaker

Xiangyu Jiang

16:30–16:50

Accelerating the HMC in openQxD using QUDA

Speaker

Justus Kuhlmann

16:50–17:10

Efficient Storage and Compression of Intermediate Data in Lattice Calculations

Speaker

Constantinos Costa

17:10–17:30

opbasis: automated construction of minimal operator bases for lattice QCD

17:30

Speaker

Nikolai Husung

Tuesday 28 July

16:10

Software development and machines

Session | **Location:** Adele H. Stamp Student Union, Crossland, 3972 Campus Dr, College Park, MD 20742 |

Convener: Anthony Grebe

16:10–16:30

Easier parameter scans with hmc dj

Speaker

Alexis Harilaos Verney-Provatas

16:30–16:50

AI/ML-inspired RMHMC kernels--CPN model study

Speaker

Nobuyuki Matsumoto

16:50–17:10

AmPyL: A python toolkit for three-particle finite-volume spectra and scattering amplitudes

Speaker

Max Hansen

17:30