

Bad Honnef Physics School

Supported by the Wilhelm and Else Heraeus-Foundation

Methods of Effective Field Theory and Lattice Field Theory

July 9 - 21, 2023, Physikzentrum Bad Honnef, Germany

Organised by

Alexei Bazavov (MSU), Nora Brambilla (TU Munich), Viljami Leino (JGU Mainz)
and Johannes H. Weber (HU Berlin)

Speakers & Topics:

- Alexei Bazavov (Michigan State University): Introduction to lattice field theory
- Eric Braaten (Ohio State University): Introduction to effective field theory
- Szabolcs Borsanyi (Wuppertal University): Numerical algorithms in lattice field theory
- Robert Harlander (RWTH Aachen University): Gradient flow (perturbation theory)
- Andrea Shindler (Michigan State University): Gradient flow (lattice)
- Johan Bijnens (Lund University): Chiral perturbation theory (continuum and lattice)
- Joan Soto (University of Barcelona): Heavy quarks, NR EFT
- Nilmani Mathur (Tata Institute of Fundamental Research): Hadron spectroscopy on the lattice (exotics)
- Emanuele Mereghetti (LANL): Nuclear physics from QCD (EFT)
- Antonio Vairo (TUM): EFT and Open Quantum Systems
- Aleksu Vuorinen (University of Helsinki): EFT for dense systems in relation to gravitational waves
- Aida El Khadra (University of Illinois): Applications of EFT and lattice to muon $g-2$
- Huey-Wen Lin (Michigan State University): Parton distribution functions
- Yannick Meurice (University of Iowa): Hamiltonian lattice field theory, quantum computing and related topics
- Marina Marinkovich (ETH Zurich): QCD+QED
- Alexander Rothkopf (University of Stavanger): Bayesian methods
- Ruth Van de Water (Fermilab): Flavor physics, EFT and lattice
- Michael Wagman (Fermilab): Nuclear physics from QCD (lattice)
- Michael Strickland (Kent State University): Finite temperature field theory (continuum)
- Attila Pasztor (ELTE Eotvos Lorand University): Finite temperature field theory (lattice)
- Stephen Sharpe (University of Washington): Multiparticle scattering

Fees:

Covering full board and lodging at the Physikzentrum Bad Honnef
200 € (for DPG members 100 €).

Application & more information: www.pbh.de



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