

Bad Honnef Physics School

Supported by the Wilhelm and Else Heraeus-Foundation

Methods of Effective Field Theory and Lattice Field Theory

July 24 - August 2, 2020, Physikzentrum Bad Honnef, Germany

Organised by

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

International advisors

Andreas Kronfeld (Fermi National Accelerator Laboratory/TUM-IAS),
Peter Petreczky (Brookhaven National Laboratory), Antonio Vairo (TUM)

Speakers & Topics:

- Vincenzo Cirigliano (Los Alamos National Laboratory): Nuclear physics with applications to neutrino physics (EFT)
- Zohreh Davoudi (University of Maryland): Nuclear physics with applications to neutrino physics (lattice)
- Miguel Escobedo (Galician Institute of High Energy Physics): HTL, NRQCD and pNRQCD at finite temperature
- Zoltan Fodor (Wuppertal University): Finite-temperature QCD
- Martin Hoferichter (University of Bern): EFT for dark matter (detection, nucleon scattering, interactions)
- Peter Lepage (Cornell University): Introduction to lattice QCD
- Ian Moulton (SLAC National Accelerator Laboratory): EFT for jets
- Matthias Neubert (Johannes Gutenberg University of Mainz): Introduction to Effective Field Theories
- Antonio Pineda (Autonomous University of Barcelona): Non-relativistic EFTs
- Sasa Prelovsek (University of Ljubljana): Spectroscopy of excited states on the lattice
- Martin Savage (University of Washington): Lattice, quantum field theory and quantum information science
- David Schaich (University of Liverpool): Lattice QCD simulations, Markov Chain Monte Carlo, algorithms
- Yukinari Sumino (Tohoku University): Perturbative calculations
- Yong Zhao (University of Kansas): Parton Distributions Functions on the lattice

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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