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 Moult (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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