



**UNIVERSITÄT
BIELEFELD**

Fakultät für Physik

Kolloquium Physik / TR211

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Lattice QCD and heavy quark physics:
exploring strong matter

Heavy quark systems, containing charm or bottom quarks, have played a crucial role in developing our understanding of Quantum Chromodynamics (QCD) and in tests of the Standard Model. Since the early 2000s, open and hidden heavy quark mesons have also provided a fertile hunting ground for new exotic states, many of which remain poorly understood by theory. I will introduce lattice QCD and describe how it can address the new challenges emerging in heavy quark spectroscopy, including studies at zero and finite temperature QCD. Some recent results will be presented and future prospects considered.

Tuesday, January 24, 2023, 2:15 p.m.

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