

FAKULTÄT für PHYSIK
LUDWIG-MAXIMILIANS-UNIVERSITÄT
MÜNCHEN/GARCHING

PHYSIK-DEPARTMENT
TECHNISCHE UNIVERSITÄT MÜNCHEN
MÜNCHEN/GARCHING

Maier-Leibnitz-Kolloquium

Donnerstag, 06.02.2020, 16¹⁵ Uhr

Hörsaal der LMU in Garching, Am Coulombwall 1
Treffen zum gemeinsamen Kaffee 16 Uhr

Dr. Viljami Leino

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Heavy Quark Diffusion from Lattice-QCD Simulations

The extreme state of matter produced in heavy-ion collisions at ultrarelativistic colliders can be characterized as a strongly coupled quark-gluon plasma. Within this plasma, the heavy quarks can be seen to behave according to Langevin dynamics, with a diffusion coefficient related to their momentum distribution. In this talk I will review the theoretical setting and present a lattice-QCD determination of the heavy quark momentum diffusion coefficient over a wide range of temperatures.

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