

QCD in extreme conditions on the lattice

Wednesday 27 July 2022 09:45 (45 minutes)

The thermodynamics of strongly interacting matter in extreme conditions can be investigated via lattice QCD simulations. In this talk, I will give an overview of recent developments in this field, focusing on the impact of temperature, background electromagnetic fields as well as an isospin asymmetry between the light quark chemical potentials. Selected applications of the results for off-central heavy-ion collisions and the evolution of the early Universe will also be discussed.

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