



› Allgemeines Physikalisches Kolloquium

› Donnerstag, 24.01.2019 um 16 Uhr c.t.

Prof. Dr. Jürgen Berges

Universität Heidelberg



Universality far from equilibrium: From the quark gluon plasma to ultracold quantum gases

In recent years there have been important advances in understanding quantum systems far from equilibrium. Prominent applications concern the early stages in collisions of relativistic nuclei at giant laboratory facilities, as well as table-top experiments with ultracold quantum gases. Even though the typical energy scales of these systems vastly differ, they can show very similar dynamical properties. Certain characteristic observables can even be quantitatively the same, defining nonthermal universality classes. I will illustrate the developments in nonequilibrium quantum many-body physics and highlight recent experimental discoveries.