

Theoriekolloquium

Am **29. November 2018** um **14.15 Uhr** in **W2 1-143** hält

Herr Prof. Dr. Matthias Krüger (Göttingen)

einen Vortrag mit dem Titel

Non-equilibrium correlations and Casimir forces in vacuum and in fluids

Generic equilibrium systems display short range correlations in space, which are cut off by a finite correlation length. Two exceptions are the (quantum) vacuum and systems near a critical point, where such correlation length is absent, and spatial correlations decay as power laws. One consequence of these long range correlations are so called Casimir forces, which in both vacuum and in critical fluids have been observed experimentally. When going out of equilibrium, the situation is quite different: Long range correlations occur more generally, also in systems displaying short range correlations in equilibrium. In this talk, we will discuss a few examples of non-equilibrium scenarios and show how correlations and Casimir forces are altered and understood in these cases.

Interessierte sind herzlich eingeladen.

gez. Prof. Dr. Andreas Engel