

Seminar

Christian Fischer

Univ. Giessen

QCD at finite temperature and chemical potential from Dyson-Schwinger equations

We review results for the phase diagram of QCD, the properties of quarks and gluons and the resulting properties of strongly interacting matter at finite temperature and chemical potential. We discuss the progress in this field from a theoretical perspective, focusing on non-perturbative QCD as encoded in the functional approach via Dyson-Schwinger and Bethe-Salpeter equations. We discuss various aspects associated with the variation of the quark masses and assess recent results for the QCD phase diagram including the location of a putative critical end-point for $N_f = 2 + 1$ and $N_f = 2 + 1 + 1$.

Tuesday, 11.12.2018, 14:15 Uhr

Place: D6-135