



XXIV QUARK MATTER DARMSTADT 2014

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On the phase structure and dynamics of QCD

Tuesday 20 May 2014 16:30 (2 hours)

We discuss the phase structure of QCD at zero and non-vanishing temperature and density. The focus is on the deconfinement phase transition and, in particular, the thermodynamics of QCD close to criticality. The precise understanding of equilibrium physics allows to also compute temperature-dependent transport coefficients. For the ratio of shear viscosity over entropy we find a minimum close to but above the KSS bound at $T \approx 1.25 T_c$, signalling almost perfect fluidity of the QGP as found in experiments at RHIC and LHC.

On behalf of collaboration:

None

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