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Temperature dependence of QGP share viscosity within lattice SU(3)-gluodynamics

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One of the most important result obtained at RHIC experiment is the measurement of the elliptic flow of final particles. The value of this flow can be explained within hydrodynamic approach, if it is assumed that QGP is nearly perfect fluid. Our paper is devoted to calculation of shear viscosity of QGP at different temperatures within lattice simulation of QCD. The results of the calculation are in a good agreement with the experiment.

Summary

Measurements of the $\langle T_{12}T_{12} \rangle$ correlator of lattice SU(3)-gluodynamics were performed in a range of temperatures in order to extract data about η/s viscosity-to-entropy ratio.

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