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Temperature dependence of bulk viscosity in SU(3)-gluodynamics

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This report is devoted to the study of temperature dependence of bulk viscosity in SU(3)-gluodynamics. To calculate bulk viscosity we measured the correlation function of the trace anomaly for a set of temperatures in the region $T/T_c \in (0.9, 1.5)$. We used multilevel algorithm which allowed us to improve the accuracy of the data. To extract the values of bulk viscosity we used two approaches: fitting of the data by physically motivated ansatz and the Backus-Gilbert method.

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