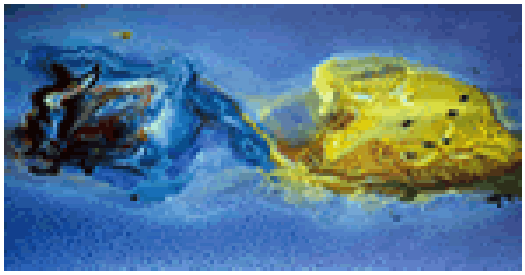

Contribution ID: **53** Type: **Poster**

Temperature dependence of SU(3)-gluodynamics bulk and shear viscosities within lattice simulation

Friday, 3 August 2018 18:19 (1 minute)

The talk is aimed at the study of $SU(3)$-gluodynamics bulk and shear viscosities temperature dependence. We measured the correlation functions of the Energy-Momentum Tensor for a set of temperatures in the region T/Tc∈[0.9,1.5] and then applied various parametrical and non-parametrical approaches which give consistent results. Observed temperature dependence agrees with the recent experimental data and previously performed calculations. We notice a peak of bulk viscosity in the vicinity of phase transition, as for shear viscosity, there is a slight rise with the temperature at $T > T_c$. The analysis of our data confirms that the quark-gluon plasma behaves as a strongly-interacting system.

Primary authors: KOTOV, Andrey; ASTRAKHANTSEV, Nikita; Dr BRAGUTA, Victor (ITEP)

Presenter: ASTRAKHANTSEV, Nikita

Session Classification: Poster

Track Classification: D: Deconfinement