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Temperature dependence of the shear viscosity in the semi-QGP

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An effective theory for the region near the critical temperature, the “semi”-QGP, has been developed. In QCD, this is dominated by the partial ionization of color, up to temperatures about 300 MeV. Using the effective model, the temperature dependence for the ratio of the shear viscosity, to the entropy, is computed. This predicts a sharp increase in this ratio between ~ 160 MeV and ~ 300 MeV.

Author: Dr PISARSKI, Robert (Brookhaven National Lab.)

Co-author: Dr SKOKOV, Vladimir V. (Brookhaven National Lab.)

Presenter: Dr PISARSKI, Robert (Brookhaven National Lab.)

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