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## Clustering of Color Sources and the Temperature Dependence of Shear Viscosity of the QGP in Central A-A Collisions at RHIC and LHC Energies

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The shear to viscosity ratios ( $\eta/s$ ) are obtained for the QGP in the context of the Color String Percolation Model (CSPM) using data produced in Au-Au collisions at  $\sqrt{s_{NN}} = 200$  A GeV at RHIC and Pb-Pb at  $\sqrt{s_{NN}} = 2.76$  TeV at LHC [per]. The experimental transverse momentum spectrum is used to measure the percolation density parameter  $\xi$  in Au-Au collisions (STAR) [eos]. The relativistic kinetic theory relation for  $\eta/s$  is evaluated using CSPM values for the temperature and the mean free path of the QGP constituents [gul1]. For Pb-Pb at  $\sqrt{s_{NN}} = 2.76$  TeV,  $\xi$  values are obtained from the extrapolation at RHIC energy. The value of  $\eta/s$  is  $0.204 \pm 0.020$  and  $0.262 \pm 0.026$  at the initial temperatures of 193.6 MeV (RHIC) and 262.2 MeV (LHC), respectively. These values are 2.3 and 3.2 times the AdS/CFT conjectured lower bound  $1/4\pi$  but are consistent with the theoretical estimates of strongly coupled QGP.

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