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Bulk vs Shear viscosity on high multiplicity small collision systems

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High multiplicity events in heavy-ion collisions are still under debate whether they produce an extremely hot and dense matter similar to the QGP formed on heavy atomic nuclei collisions. One of the main characteristics of the formation of this state is that it behaves like a near-perfect fluid, with very tiny shear viscosity. We present an estimate of the shear and bulk viscosity properties of the high multiplicity events in p-Pb and p-p collisions at the current LHC energies in the framework of the color of sources. Moreover, the effects of non-thermal equilibrium shown to be relevant. A comparison among the predictions of the relativistic hydrodynamics and the limits in conformal theory is also shown.

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