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Viscous effects of clustering of color sources in small collision systems

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The clustering of color sources has been successful in describing several phenomena of multiparticle production, and collectivity signatures of strongly interacting partonic matter in relativistic heavy-ion collisions from the initial stage. Moreover, in small collision systems, the size effects in critical string density becomes relevant, and its contribution to the system properties differ from those in heavy ion collision near the thermodynamical limit.

We present a study in terms of the corresponding values of the ratio of (shear vs. bulk) viscosity and entropy density (η/s , ζ/s) for the high multiplicity proton-proton (pp) and (pPb) collision data at LHC energies. Results are above AdS/CFT and Conformal Field Theory boundaries.

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