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Comparison of RHIC and LHC flow data with NeXSPheRIO

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A large experimental effort is dedicated to measuring the QGP properties in heavy ion collisions. To describe these collisions, relativistic viscous hydrodynamics is used. However various points are still under investigation such as terms to be incorporated in the equations of motion, distribution functions at freeze out, temperature dependence of the viscosity coefficients. As a consequence, ideal hydrodynamics can be considered a benchmark. NeXSPheRIO (3+1 ideal hydro code with NeXus initial conditions) was

the first event-by-event code developed and used extensively to describe RHIC data. It is therefore of interest to discuss how well it works at LHC energy. In this contribution, we present a comparison of the description of available flow data (longitudinal, transverse, flow harmonics and their distributions) at RHIC and LHC.

On behalf of collaboration:

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