

Heavy Ion Collisions in the LHC Era



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Higher Harmonics in Event-by-Event Viscous Hydrodynamics

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In this era of precision measurement in heavy ion collisions, it is becoming increasingly important that we characterize the flow patterns in each individual event. Such measurements can yield much more precise determination of QGP properties including, but not limited to the value of the shear viscosity. In this talk, I will report on McGill group's efforts in analyzing current RHIC and LHC data on higher harmonics using MUSIC - the event-by-event 3+1D viscous hydrodynamics code developed at McGill.

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