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Hydrodynamics for Relativistic Heavy Ion Collisions

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We apply hydrodynamic model calculations to predict soft particle observables in relativistic heavy-ion collisions. Results of simulations of a 3+1D viscous hydrodynamic model are presented. A satisfactory description of transverse momentum spectra, HBT radii, and elliptic and triangular flows in heavy-ion collisions at RHIC and the LHC is obtained. Most advanced simulations of the model are
performed event-by-event and include non-flow correlations from charge conservation. The possibility of observing collective flow in p-p and p-Pb collisions at the LHC is addressed.

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