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Chiral vortical and magnetic effects in anomalous hydrodynamics

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We employed a 3+1D anomalous hydro with initial condition generated by HIJING to calculate Chiral Vortical Effect and Chiral Magnetic Effect. This allowed us to compare these two effects at different collision energy and centrality. We calculated the charge dependent two-particle correlations with respect to the reaction plane, which is used to compare with current results and also can provide prediction for further experiments.

Preferred Track

New Theoretical Developments

Collaboration

BEST

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