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Anisotropic transverse flow generated by Chiral anomaly in heavy ion collision

Summary

The properties of matter at extreme densities and temperatures where quarks and gluons which so-called Quark Gluon Plasma (QGP) are very fundamental questions in Quantum Chromo Dynamics (QCD). The recent Heavy Ion collision experiment (i.e.Heavy Ion Collider (RHIC) and the CERN Large Hadron Collider (LHC)) allow us to create and study the properties of the QGP matter in the laboratory. The anisotropy of produced particles is one of the probes of the properties of the GQP matter. In this talk we will discuss the anisotropic transverse flow generated by chiral anomaly which is from Pion decay to photons. The result maybe useful to explain the problem of the large experiment data of elliptic flow compare with recent theoretical predictions.

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