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Phenomenology of anomalous chiral transports in heavy-ion collisions

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Content

Heavy-ion collisions can generate extremely hot matter and also extremely strong magnetic fields and fluid vorticity. Once coupled to chiral anomaly, the magnetic fields and fluid vorticity can induce a variety of novel transport phenomena, including the chiral magnetic effect, chiral vortical effect. Some of them require the environmental violation of parity and charge conjugation symmetry, and thus provide a means to test the possible C and P violation in hot strongly interaction matter. We will discuss the implications of these anomalous chiral transports in heavy-ion collisions.

Session

Multiparticle correlations and fluctuations

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