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The Chiral Magnetic Effect: from quark-gluon plasma to Dirac/Weyl semimetals

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Chiral anomaly induces a variety of novel macroscopic quantum phenomena in systems possessing charged chiral fermions, including the Chiral Magnetic Effect (CME). I will review the manifestations of CME in nuclear and condensed matter physics, and present recent results on the link between CME and evolution of magnetic helicity.

Summary

An overview of the recent developments in anomaly-induced transport will be presented.

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