

Chiral magnetic effect and conductivity of quark-gluon plasma in external magnetic field

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In this talk we discuss chiral magnetic effect - one of the most actively discussed macroscopic manifestations of the chiral anomaly. One of the consequences of the chiral magnetic effect is the growth of the conductivity in magnetic field. We present results of the lattice measurements of the conductivity of quark-gluon plasma in external magnetic field, both in parallel and perpendicular directions. The results confirm the existence of the chiral magnetic effect. Using these results, relaxation time of the chiral charge is also estimated.

Primary author(s) : Dr KOTOV, Andrey (Jülich Forschungszentrum)

Presenter(s) : Dr KOTOV, Andrey (Jülich Forschungszentrum)

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