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Conductivity of quark-gluon plasma in the presence of external magnetic field

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We examine the electric conductivity of quark-gluon plasma in the presence of external magnetic field B within LQCD formulation for few temperatures in the deconfinement phase. Ensembles are generated with dynamical staggered 2+1 quarks at physical quark masses. At first we measure the electromagnetic current-current Euclidean correlators along and perpendicular to the magnetic field, then extract the conductivity via analytical continuation within the Backus-Gilbert method. We obtain, that σ_{\parallel} grows in the direction of magnetic field and σ_{\perp} decreases. Thus we observe the Chiral Magnetic Effect in quark-gluon plasma.

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