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Hydrodynamic helicity, axial anomaly and polarization

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The helicity of quark-gluon medium is transmitted to spin polarization through axial anomaly. The possibilities of distinguishing of this mechanism, incorporating the recent data, from the thermodynamic one are discussed. The other manifestations of helicity, mimicking the chiral magnetic and vortical effects are also considered.

Primary author(s) : TERYAEV, Oleg (JINR)

Presenter(s) : TERYAEV, Oleg (JINR)

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