

Contribution ID: 60

Type: **Parallel Sessions**

Anomaly and Polarization in heavy-ion collisions

Tuesday, 11 September 2018 16:40 (25 minutes)

The relation of polarization in heavy-ion collisions to axial anomaly is systematically explored. The qualitative description of and quantitative comparison with experimental data is discussed. The comparison to thermodynamical approach to polarization is performed. The quark and hadronic degrees of freedom and duality between them are discussed. The role of mass effects, dissipation and instabilities is stressed.

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Session Classification: Spin physics in Nuclear Reactions and Nuclei

Track Classification: Spin Physics in Nuclear Reactions and Nuclei