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Chiral Vortical Effect for Rarita-Schwinger Fields and Chiral Anomaly

Wednesday 13 October 2021 16:30 (15 minutes)

We consider the theory of Rarita-Schwinger field interacting with a field with spin 1/2, in the case of finite temperature, chemical potential and vorticity, and calculate the chiral vortical effect for spin 3/2. We have demonstrated the role of interaction with the spin 1/2 field, the contribution of the terms with which to CVE is 6. Since the contribution from the Rarita-Schwinger field is -1, the overall coefficient in CVE is 6-1=5, which corresponds to the recent prediction of a gauge chiral anomaly for spin 3/2.

Primary author: PROKHOROV, George (Dubna, BLTP)

Presenter: PROKHOROV, George (Dubna, BLTP)

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