

Polarisation in heavy-ion collisions: how to discriminate between different mechanisms?

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The relation of hadrons polarisation in rotating matter to axial anomaly is considered in some detail. The various mechanisms of coupling of hydrodynamical vorticity and helicity to spin are compared. The interplay between mesonic and baryonic degrees of freedom as well as duality between quantum field theory and hydrodynamics are discussed. The sensitivity of polarisation observables to dynamics are analyzed.

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