

Theoretical aspects of spin physics at JINR

Thursday, 17 December 2020 11:00 (0:40)

Content

The essential ingredients of QCD description of spin asymmetries in hadronic and heavy-ion collisions are reviewed and compared. The parity conserving QCD Lagrangian implies the orientation of spin pseudovector along the normal to scattering or reaction plane. The role of axial anomaly in producing the spin-orbital coupling is discussed. The imaginary phases due to higher twist in hadronic collisions correspond to dissipation in heavy-ion collisions. The investigation of transition from hadronic to heavy-ion collisions at NICA is addressed.

Area of contribution

Theory and Phenomenology

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Session Classification : Joint Session: Mexico and Russia groups: spin physics and polarization