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Comparing single spin asymmetries in hadronic and heavy-ion collisions

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The basic ingredients of generation of single spin asymmetries are the formation of pseudovector, interference of amplitudes and emergence of imaginary phase.

The latter, provided by final (initial) state interactions due to twist 3 effects or Sivers function in hadronic collisions, is suggested to correspond to the dissipation effects in heavy-ion collisions. Manifestation of the latter due to the appearance of baryonic cores in the quantized vortices in pionic superfluid is addressed. The experimental studies of the transition between hadronic and heavy-ion collisions is discussed.

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