

Off-equilibrium corrections to fermion spin polarization in HIC

We discuss the off-equilibrium corrections to the fermion spin polarization vectors based on quantum kinetic theory. The collisions and self-energies can both play roles in the interaction corrections: the former can be estimated via a gradient expansion of spin Boltzmann equation while the later is automatically incorporated in the perturbative solution. We will show these different corrections and their possible effects on the explanation of Λ local spin polarization.

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