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Polarized TMD FFs with QCD evolution

The polarized transverse-mementum-dependent fragmentation function (TMD FF) $D_{1T}^{\perp}$ have attracted lots of attention from both experiment and theory communities. Starting from a isospin symmetric parametrization for $D_{1T}^{\perp}$, we have studied transverse polarizations of Λ in various collisions. Recently we focus on nuclear collisions and study the QGP medium effects via QCD evolution in the impact parameter space. We find that transverse polarization of Λ can work as a novel probe of nuclear medium effects in heavy ion collisions.

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