

Single-spin asymmetries in $p^\uparrow p \rightarrow J/\psi$ collision within a TMD approach

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Quarkonium production has been advertised as a tool to probe the gluon TMDs. Among the eight gluon TMDs, gluon Sivers function has been receiving paramount of interest both theoretically and experimentally. We study the single-spin asymmetry (SSA) in proton-proton collision process in J/ψ production by employing the generalized parton model (GPM), and compare SSA with PHENIX data. We discuss how the singularities coming from color octet states can be cured in a simple way, which leads to finite cross section in the low- p_T region.

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