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Transversely polarized Λ production in e^+e^- annihilation and SIDIS processes within a TMD approach

Tuesday, 6 June 2023 12:00 (30 minutes)

In this talk, we will present a recent re-analysis of Belle data for the transverse Λ and $\bar{\Lambda}$ polarization in e^+e^- annihilation processes within a TMD factorization approach and adopting the CSS framework.

We will also discuss the issue of isospin symmetry and the role of the charm quark contribution, with their impact on the description of the experimental data as well as on the extraction of the polarizing fragmentation function.

Estimates for the transverse Λ polarization in SIDIS processes, at typical energies of the future EIC, will be presented.

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