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Quenching of polarized jets

Jets produced in association with a Z^0 or $W^{\pm}$ boson in hadronic collisions are naturally polarized due to the parity violation of weak interaction, making these processes ideal for extracting information about the longitudinal spin transfer G_{1L}, and for studying the phenomenon of polarized jet quenching. In this work, we compute the polarization of Λ hyperons in pp collisions and investigate the nuclear modification due to the jet-medium interaction in AA collisions. We demonstrate that this quantity is a sensitive probe to the energy loss effect.

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