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Probing heavy quarkonium production mechanism: chi_c polarization

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The necessity of the color-octet mechanism in describing heavy quarkonium production is a longstanding puzzle. Compared to the yields of heavy quarkonium, its polarizations should be more sensitive to the color-octet contributions. In this talk, I will focus on the χ_c polarization in hadroproduction processes, which may provide a unique test for the color-octet mechanism in nonrelativistic QCD.

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