

## Measurement of $J/\psi$ -onium polarization in D0

We present a study of the polarization of prompt  $J/\psi$  using a 1.3 fb<sup>-1</sup> data sample collected by the D0 experiment in 2002–2006 during Run II of the Fermilab Tevatron Collider. The polar helicity angle distribution was compared in different  $p_T$  and rapidity intervals with the predicted distribution using the polarization parameter  $\alpha = (\sigma_T - 2\sigma_L)/(\sigma_T + 2\sigma_L)$  where  $\sigma_T$  and  $\sigma_L$  are the transverse and longitudinal polarized components of the cross section.

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