

Measurement of J/psi helicity distributions in inelastic photoproduction at ZEUS

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The decay angular distributions for inelastic photoproduction of J/psi mesons have been measured with the ZEUS detector at HERA, using an integrated luminosity of 468 pb⁻¹. J/psi mesons were identified using their decays into muons. The polar and azimuthal distributions of the mu⁺ in the J/psi rest frame have been measured as a function of p_T and as function of z, where p_T is the transverse momentum of the J/psi in the laboratory frame and z is the fraction of the incident photon energy carried by the J/psi in the proton rest frame. The experimental results were compared to the theoretical predictions at leading and next-to-leading order.

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