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Production of J/ψ Mesons with large $|t|$ at HERA

H1 Collaboration

Measurements of the cross-section for the quasi-elastic production of J/ψ mesons with large momentum transfer squared at the proton vertex, $|t|$, have been made. The data were collected by the H1 experiment at the HERA collider in 1994 and 1995, and correspond to a total integrated luminosity of about $8.2\,\mathrm{pb}^{-1}$. The J/ψ meson is identified by the decay to e^+e^- and $\mu^+\mu^-$. Comparisons are made with a pQCD model using BFKL formalism. A value of α_s in the gluon ladder in the model is measured.