

## **J/Psi Photoproduction at HERA with ZEUS**

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The proton-dissociative diffractive photoproduction of J/psi mesons has been studied in ep collisions with the ZEUS detector at HERA using an integrated luminosity of 112 pb. The cross section is presented as a function of the photon-proton centre-of-mass energy and of the squared four-momentum transfer at the proton vertex. The results are compared to perturbative QCD calculations. The double differential inelastic J/psi photoproduction cross section as function of the squared transverse momentum of the J/psi in bins of the inelasticity  $z$  has been measured. An integrated luminosity of 468 pb<sup>-1</sup> was used corresponding to the full data sample collected by the ZEUS experiment. The events were required to have  $0.1 < z < 0.9$ ,  $p_t > 1$  GeV and  $60 < W < 240$  GeV, where  $p_t$  is the transverse momentum of the J/psi and  $W$  is the photon-proton centre-of-mass energy. The J/psi mesons were identified through their decay into muon pairs. The double differential cross section measurements are compared to the most recent theoretical predictions.

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