



Contribution ID: 38

Type: Talk in Parallel Session at DIS2013

Measurement of Inelastic J/psi and psi' Photoproduction at HERA

Tuesday, 23 April 2013 11:00 (20 minutes)

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 in ep collisions with the ZEUS detector at HERA.

An integrated luminosity of 468 pb⁻¹ 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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Session Classification: WG5: Heavy Flavours

Track Classification: Heavy Flavours