



Contribution ID: 133

Type: **not specified**

Recent results on Charmonium production at HERA

Thursday, 11 September 2014 11:45 (25 minutes)

Exclusive charm vector meson production has been studied in the high statistics HERA-2 data.

H1 has measured the elastic and proton-dissociative photoproduction cross sections of J/ψ mesons as function of $W_{\{\gamma p\}}$ and t . The $W_{\{\gamma p\}}$ and t dependencies are parametrised using phenomenological fits, and results are compared to other measurements.

ZEUS has measured the cross section ratio of exclusive DIS production of $\psi(2S)$ to $\psi(1S)$ as function of Q^2 , $W_{\{\gamma p\}}$ and t .

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Session Classification: Diffraction in DIS (II)

Track Classification: Diffraction in DIS