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Exclusive photoproduction of Upsilon mesons at HERA

Content :
The exclusive photoproduction reaction gamma p -> Upsilon p has been studied with the ZEUS detector in ep collisions at HERA using an integrated luminosity of 468 pb-1. The measurement covers the kinematic range 60 < W < 220 GeV and Q^2 < 1 GeV^2, where W is the photon-proton centre-of-mass energy and Q^2 is the photon virtuality. The gamma-p cross section for Upsilon photoproduction is presented as a function of W and |t|, where t is negative transverse momentum square at the proton vertex. These results, which represent the analysis of the full ZEUS data sample for dimuon decay channel, are compared to predictions based on perturbative QCD.

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Comments :

These results will be presented on behalf of the ZEUS Collaboration