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Exclusive VM production at HERA

Saturday 7 July 2012 16:30 (15 minutes)

The exclusive photoproduction reaction gamma p -> Upsilon(1S) p has been studied with the ZEUS detector in ep collisions at HERA.The exclusive electroproduction of two pions in the mass range 0.4 < M(pipi) < 2.5 GeV has also been studied with the ZEUS detector at HERA. The two-pion invariant-mass distribution is interpreted in terms of the pion electromagnetic form factor, |F(M(pipi)|, assuming that the
studied mass range includes the contributions of the rho, rho' and rho" vector-meson states.Results from exclusive diffractive photoproduction of J/psi mesons as measured with the H1 detector at the electron-proton collider HERA will be shown. Differential cross sections will be presented as a function of t, the squared four-momentum transfer at the proton vertex, and of W_gammap in the kinematical range of low photon virtualities of Qˆ2 < 2.5 GeVˆ2.

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