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Exclusive production at HERA

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Summary

The exclusive photoproduction reaction gamma $p \rightarrow Upsilon(1S)$ p has been studied with the ZEUS detector in ep collisions at HERA.

The exponential slope, b, of the t dependence of the cross section, where t is the squared four-momentum transfer at the proton vertex, has been measured. This constitutes the first measurement of the t dependence of the gamma $p \rightarrow Upsilon(1S)$ p cross section.

The differential cross sections as a function of t at lower energies were studied in exclusive diffractive photoproduction of J/psi mesons with the H1 detector.

The exclusive electroproduction of two pions was measured by the ZEUS experiment. The two-pion invariant-mass distribution is interpreted in terms of the pion electromagnetic form factor, assuming that the studied mass range includes the contributions of the rho, rho' and rho' vector-meson states.

Primary author: SZUBA, Dorota (UH Hamburg)

Presenter: SZUBA, Dorota (UH Hamburg)

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