

Inclusive Diffraction in DIS at ZEUS: LRG, LPS and Mx methods

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The diffractive dissociation of virtual photons, $\gamma^*p \rightarrow Xp$, has been measured with the ZEUS detector in $e+p$ collisions at HERA. Events were selected either by requiring a large rapidity gap between the system X and the outgoing proton, or by tagging the outgoing proton, or by exploiting the different distribution of the mass of the system X for diffractive and non diffractive events. The cross section is presented as a function of t , the squared four-momentum transfer at the proton vertex and Φ , the azimuthal angle between the positron scattering plane and the proton scattering plane. The data are also shown in terms of the reduced diffractive cross sections, $\sigma_r^{D(3)}$ and $\sigma_r^{D(4)}$.

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