

The dynamic of diffractive structure functions at high energies

We describe the most recent H1 and ZEUS diffractive DIS data obtained by various methods with very large uncertainties associated with the treatment of proton dissociation processes and compare them in detail. We consider pomeron as an object with parton distribution function, evolving according to the DGLAP equations. Having performed a global t analysis, we achieve a very good description of all available measurements by extracting sets of quark and gluon distributions for the pomeron. The gluon distributions are found to be quite different for methods of H1 and ZEUS. We predict charm and longitudinal proton diffractive structure function. Our results are compared with other analysis from the literature.

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Classification de thématique: QCD