Abstract 255
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Forward π° Production at HERA

H1 Collaboration

When partons of the proton are probed at small momenta x_{Bj}, the different approximations of the QCD evolution equations, e.g. DGLAP and BFKL, can be tested. Using the H1 detector at HERA, we use π° mesons with large transverse momentum as an indicator of the underlying parton dynamics. Especially interesting in this respect is the π° production in the "forward" region of H1, i.e. close to the incident proton direction. Distributions of π°'s above a fractional energy $x_\pi = E_\pi/E_p$ of the π° meson relative to the proton energy are presented as a function of x_{Bj} for various values of x_π. The measurements are compared to different QCD calculations.