

Registration for the Spring-Meeting of the
German Physical Society
from 04.03. to 09.03.2005
in berlinhkt

Jet production in DIS — •WENBIAO YAN — c/o DESY FH1,
Notkestr. 85, 22607 Hamburg

Jet production is studied in the Breit frame in deep inelastic positron proton scattering over a large range of four-momentum transfers $150 < Q^2 < 15000 \text{ GeV}^2$ and transverse jet energies $7 < E_T < 50 \text{ GeV}$. The analysis is based on data corresponding to an integrated luminosity of $\mathcal{L}_{int} \sim 65 \text{ pb}^{-1}$ taken in the years 1999-2000 with the H1 detector at HERA at a center-of-mass energy $\sqrt{s}=318 \text{ GeV}$. Dijet and inclusive jet cross sections are measured multi-differentially using the longitudinally invariant k_T cluster algorithm. The results are compared to the predictions of perturbative QCD calculations in next-to-leading order in the strong coupling constant α_s . The ratio $R_{3/2}$ of the trijet to the dijet cross section as a function of Q^2 is also shown.

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