PERTURBATIVE QCD PHENOMENOLOGY OF ELASTIC *ed* SCATTERING

A. P. Kobushkin [1], Ya. D. Krivenko-Emetov [2]

[1] *N. N. Bogolyubov Institute for Theoretical Physics, National Academy of Sciences of Ukraine, Kyiv*
[2] *Institute for Nuclear Research, National Academy of Sciences of Ukraine, Kyiv*

Electron-deuteron elastic scattering data ($A(Q^2)$ and $B(Q^2)$ structure functions and polarization observables t_{20}, t_{21} and t_{22}) are fit with a model that respects asymptotic properties of perturbative QCD (pQCD) at high momentum transfer. The data analysis shows that pQCD starts from $Q^2 = 3,5(GeV/c)^2$. Predictions for the magnetic structure function $B(Q^2)$ and the polarization observables at high momentum transfer are given.