XX International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 134

Evidence for breakdown of the DGLAP description in diffractive DIS at HERA

Tuesday 27 Mar 2012 at 11:40 (00h20')

Content:

HERA data on diffractive DIS show deviations from twist 2 DGLAP predictions below Q^2 5 GeV 2 at low x_P , which may reach up to 100%. These deviations are consistent with higher twists effects extracted from the saturation model. It is a first direct evidence for the higher twists in DIS. This finding affects determination of the diffractive parton densities that are used for the predictions at the LHC.

Primary authors: SADZIKOWSKI, Mariusz (Jagiellonian University); MOTYKA, Leszek (Hamburg

University); SLOMINSKI, Wojtek ()

Co-authors:

Presenter: SADZIKOWSKI, Mariusz (Jagiellonian University)

Session classification: Diffraction and vector mesons

Track classification: Diffraction and vector mesons

Type: --not specified--