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

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HERA data on diffractive DIS show deviations from twist 2 DGLAP predictions below $Q^2 \lesssim 5 \text{ GeV}^2$ 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.

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