

Mini experimental review of low-x at LHC

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Feasibility studies are presented on forward jet production at the LHC with the CMS detector, assuming the integrated luminosity 1 pb⁻¹, together with studies of inclusive Z and W production, as well as low-mass Drell Yan with the LHCb detector. The potential sensitivity of the CMS and the LHCb experiments to the proton PDFs at low x_{Bj} is discussed. The feasibility of observing hard diffraction at the LHC with the first 10-100 1 pb⁻¹ collected by the CMS detector are also summarized. Studies of single-diffractive di-jet production, single-diffractive W boson production, Y photoproduction and di-jet production with a large rapidity gap between jets in pp collisions are presented.

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