

Understanding the structure of the proton: From HERA and Tevatron to LHC

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We discuss the perspectives concerning a better determination of the proton structure in terms of quarks and gluons at LHC after describing the results coming from HERA and Tevatron. In a second part of the review, we describe the diffractive phenomena at HERA and Tevatron and the consequences for LHC. The focus will be given on perspectives for LHC, essentially on early measurements that could be done in a reduced energy mode, as foreseen. Experimental aspects and impact on unknowns from the theory will be discussed.

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