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Constraints on the Parton Density Functions of the Proton by Measurements with the ATLAS Detector

Friday 7 July 2017 17:00 (15 minutes)

Parton distribution functions (PDFs) are crucial ingredients for measurements at hadron colliders, since they describe the initial states and therefore critically impact the precision of cross section predictions for observables. This talk will review recent precision analyses, where the PDFs play an important role and discuss the impact of several new ATLAS cross-section measurements on PDFs of the proton. Particular emphasis will be given to the determination of the strange and the gluon content of the proton.

Experimental Collaboration

ATLAS

Presenter: SUTTON, Mark (University of Sussex (GB))**Session Classification:** QCD and hadronic physics**Track Classification:** QCD and Hadronic Physics