

Parton distribution functions and the structure of the proton: the CT14 QCD global analysis

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An overview on the new parton distribution functions (PDFs) up to next-to-next-to-leading order (NNLO) from the CTEQ-TEA global analysis of quantum chromodynamics will be given.

Predictions for important LHC processes, especially Higgs boson and top-quark pair production at 7, 8, 13 TeV, will be presented, and main features and impact of CT14 PDFs on LHC physics will be discussed.

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