DIS 2014 - XXII. International Workshop on Deep-Inelastic Scattering and Related Subjects



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Uncertainties on Higgs and ttbar predictions at the LHC from CTEQ-TEA Global Analysis

Tuesday, 29 April 2014 15:36 (24 minutes)

We study the uncertainties of the Higgs boson and ttbar production cross sections at the LHC arising from the uncertainties

of the parton distribution functions (PDFs) and of the value of the strong coupling constant α s(MZ). We investigate the robustness

of the commonly-used Hessian approach by comparing with the more-general Lagrange Multiplier method within the CTEQ-TEA

global analysis, for the two processes.

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