XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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The new PDF sets in the MSTW/MMHT framework

Tuesday, March 24, 2020 10:00 AM (30 minutes)

I will give an update on the latest major PDF update with the MSTW/MMHT framework. The update includes the effects of numerous new data sets, mainly from the LHC. This includes vector boson production, differential in rapidity, mass or p_T, or usually some combination. We also include new jet data and inclusive and differential top pair producation data. There have also been improvements in the theoretical framework. The parameterisation has been extended and made more flexible, and more data sets are included without any approximation at NNLO. The PDFs are largley stable compared to MMHT2014, with the major changes being in the dteailed breakdown of the quarks and antiquarks into different flavours. A brief discussion of the dependence on the strong coupling and quark masses is included.

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