

DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and
Related Subjects

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Combination of PDF uncertainties for LHC observables

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I review two methods for combination of PDF+QCD coupling uncertainties for LHC observables, based on meta-parametrizations of PDFs and compressed Monte Carlo replicas. The methods estimate combined PDF uncertainties using input PDF ensembles from several groups. They offer alternatives to the current PDF4LHC prescription for the combination of PDF uncertainties, and combine the PDFs at the level of their functional forms, rather than at the level of final physical predictions. Strengths of both methods are compared, and prospects for their implementation in future analyses are discussed.

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