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Recent progress in PDF set combinations for the LHC

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The current PDF4LHC recommendation to estimate uncertainties due to parton distribution functions (PDFs) in theoretical predictions for LHC processes involves the combination of separate predictions computed using PDF sets from different groups, each of which comprises a relatively large number of either Hessian eigenvectors or Monte Carlo (MC) replicas. We present a strategy for the statistical combination of individual PDF sets, followed by different reduction algorithms to end up with a small number of either Hessian eigenvectors or MC replicas. We illustrate our strategy with the combination of the recent NNPDF3.0,
CT14 and MMHT14 NNLO PDF sets.

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