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Recent QCD results from the xFitter project

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We present recent results from the xFitter project: an open-source software framework for the determination of PDFs and the analysis of QCD physics. xFitter has been used for a variety of LHC studies including the measurement of the strange PDF, which we briefly summarize. Additionally, charged current DIS charm production provides a complementary perspective on $s(x)$. We make use of the xFitter tools to study the present $s(x)$ constraints, and then use LHeC pseudo-data to infer how these might improve. We also make use of the LHC forward-backward asymmetry in neutral current Drell-Yan production to help improve the up and down distributions. These studies provide practical illustrations of the many features of xFitter.

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