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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. Furthermore, as xFitter implements both Fixed Flavor and Variable Flavor number schemes, we can examine the impact of these different theoretical choices. This study provides a practical illustration of the many features of xFitter.

Authors: THE XFITTER COLLABORATION; BERTONE, Valerio (NIKHEF); GLAZOV, Alexander (Deutsches Elektronen-Synchrotron (DE)); OLNESS, Fred; ZENAIEV, Oleksandr

Presenter: OLNESS, Fred

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