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Inverse Problems in PDF determinations

The determination of a function from a finite set of points is notoriously an ill-defined problem, which clearly affects the determination of PDFs. As high-energy physics moves into the era of precision, it is mandatory to find a robust way of quantifying the uncertainties affecting the determination of PDFs, which play a central role in the analysis of experimental data at hadronic colliders. We discuss a Bayesian approach to inverse problems and its application to the case of PDFs.

Primary author: DEL DEBBIO, Luigi

Presenter: DEL DEBBIO, Luigi

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