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Parton Distribution Functions today: needs, achievements and challenges

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I review recent progress in the determination of the collinear parton distribution functions (PDFs) of the proton. I focus on how the needs for accuracy and precision in current and future programs at high-energy accelerators are addressed in contemporary PDF sets. I discuss the impact on PDFs of the uncertainties coming from the data, the theory and the methodology, and I outline some corresponding challenges in their assessment.

Primary author: NOCERA, Emanuele Roberto (Nikhef)

Presenter: NOCERA, Emanuele Roberto (Nikhef)

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