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Unpolarised Parton Distribution Functions Today: Needs, Achievements and Challenges

Friday, 1 June 2018 14:00 (30 minutes)

I review recent progress in the determination of the unpolarised 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.

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