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Parton distribution functions and EW corrections

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Precision phenomenology at the LHC requires accounting for both higher-order QCD and electroweak corrections as well as for photon-initiated subprocesses. In this talk I summarise the development history concerning: the inclusion of electroweak effects in parton distribution functions, the evolution of PDF algorithms for the determination of the photon PDF during the past decade, and the impact of photon-initiated contributions to several processes.

Summary

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