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Nucleon PDF separation with the collider and fixed-target data.

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We consider impact of the recent data obtained by the LHC, Tevatron, and fixed-target experiments on the quark distributions in nucleon with a particular focus on disentangling different quark species. Improved determination of the poorly known strange sea distribution and the sea isospin asymmetry is obtained. The standard candle benchmarks for the Drell-Yan process at the LHC energies are updated.

Summary

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