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Seminar room 0815, 8th floor, physics highrise

Precision Physics with Jet Observables

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Abstract

Jet production observables are among the most sensitive probes of QCD at high energy colliders, where they are used for example to determine parton distributions and the strong coupling constant. Until recently, the interpretation of jet production data within perturbative QCD was restricted to next-to-leading (NLO) calculations, with theoretical uncertainties being considerably larger than current experimental errors. We report on developments towards NNLO calculations of jet observables at high energy colliders and discuss the potential implications of these corrections for precision QCD physics.