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Top-quark pair production beyond NNLO

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The total top-antitop production cross section at hadron colliders is one of the key observables of the Standard Model. Comparisons of LHC measurements with theoretical calculations are being used to determine the top-quark mass and the strong coupling and are included in global PDF fits. These applications are currently based on calculations at the next-to-next-to-leading order (NNLO) in QCD supplemented by soft-gluon resummation at the next-to-next-to-leading logarithmic order. In this talk I will present recent developments in computing the cross section beyond NNLO, which is necessary to keep up with the ever increasing experimental accuracy.

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