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Top-quark pair-production with one jet and parton showering at hadron colliders

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We discuss heavy-flavor production in association with one jet hadronic collisions matched to parton shower Monte Carlo programs at next-to-leading order QCD with account of top-quark decays and spin correlations in the decay products.

The calculation builds on existing results for the radiative corrections to heavy-quark plus one jet production and uses the POWHEG BOX for the interface to the parton shower programs PYTHIA or HERWIG.

Phenomenological studies for the LHC and the Tevatron are presented.

In particular we study the impact of the parton shower on the top-quark charge asymmetry.

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