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Towards realistic simulation of single top-quark production

In this talk I present results for t-channel single top-quark production with decay at the LHC at next-to-next-to-leading order in QCD. Our calculation can be applied with arbitrary kinematic cuts at parton level thus ensures a realistic comparison with fiducial cross sections measured at the LHC. The results are important for precision study of top-quark EW couplings including the measurement of V_{tb} at the LHC.

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