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N3LO soft-gluon corrections to $H^+ H^-$ production

Tuesday 14 May 2024 16:00 (15 minutes)

We present calculations of higher-order QCD corrections for the production of a heavy charged-Higgs pair ($H^+ H^-$) in the two-Higgs-doublet model at LHC energies. We calculate the NNLO soft-plus-virtual QCD corrections and the N³LO soft-gluon corrections to the total and differential cross sections in single-particle-inclusive kinematics.

Mini Symposia (Invited Talks Only)

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