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Soft-gluon corrections for single top quark production in association with electroweak bosons

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We present results for higher order soft-gluon radiative corrections for single top quark production in association with electroweak bosons, including t γ and t Z production via anomalous FCNC couplings. We provide results for the total cross sections and differential distributions at LHC energies and beyond. We use K -factors to show the significance of the corrections compared to leading order and discuss uncertainties and the importance of the results.

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