

# Single-Top Production in the Standard Model and Beyond

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I present high-order calculations for single-top production in the Standard Model and in models with anomalous top-quark couplings. Theoretical results are presented for total cross sections and top-quark transverse momentum and rapidity distributions for the  $t$  and  $s$  single-top channels as well as for the associated production of a top quark with a  $W$ -boson in the Standard Model. Corrections from soft-gluon emission through NNNLO are included. I also show results for the associated production of a top quark with a  $Z$  boson in processes involving anomalous top-quark couplings.

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