

Process	Group	ME order	Generator	Notes
$tW$	Single $t$	NLO	POWHEG v2	
$t$ channel	Single $t$	NLO	POWHEG v2	MADSPIN for heavy particle decays [67]
$s$ channel	Single $t$	NLO	MADGRAPH5_aMC@NLO v2.6.1	
$t\bar{t}H$	$t\bar{t}H$	NLO	POWHEG v2	
$t\bar{t}Z$	$t\bar{t}V$	NLO	MADGRAPH5_aMC@NLO v2.6.1	MADSPIN for heavy particle decays [67]
$t\bar{t}W$	$t\bar{t}V$	NLO	MADGRAPH5_aMC@NLO v2.6.1	FxFx merging up to 1 additional jet [33] MADSPIN for heavy particle decays [67]
$W$ +jets	$V$ +jets	LO	MADGRAPH5_aMC@NLO v2.6.5	MLM merging up to 4 additional jets [68]
$Z$ +jets	$V$ +jets	LO	MADGRAPH5_aMC@NLO v2.6.5	MLM merging up to 4 additional jets [68]