

Process	Generator + parton shower	Cross section order
$t\bar{t}$	POWHEG + PYTHIA 8	NNLO+NNLL [26, 27]
$tW$	POWHEG + PYTHIA 8	Approximate NNLO [28]
$W$ +jets	MADGRAPH5_aMC@NLO + PYTHIA 8	NNLO[QCD]+NLO[EW] [29]
DY	MADGRAPH5_aMC@NLO + PYTHIA 8	NNLO[QCD]+NLO[EW] [29]
VV	POWHEG + PYTHIA 8	NLO