

Process	Generator	Cross-section	Parton shower	PDF set	Tune
Type-III seesaw $L^+L^-, L^\pm N^0$	MADGRAPH5_AMC@NLO	NLO+NLL	PYTHIA 8.230	NNPDF3.0 _{LO} NNPDF2.3 _{LO}	A14
Top quark $t\bar{t}$	POWHEG BOX v2	NNLO	PYTHIA 8.230	NNPDF3.0 _{NNLO} NNPDF3.0 _{NLO}	A14
Single t	POWHEG BOX v2	NNLO	PYTHIA 8.230	NNPDF3.0 _{NNLO} NNPDF3.0 _{NLO}	A14
Rare top quark $3t, 4t$	MADGRAPH5_AMC@NLO	LO	PYTHIA 8.230	NNPDF3.0 _{LO}	A14
$t\bar{t} + W/Z/H, tWZ$	MADGRAPH5_AMC@NLO	NNLO	PYTHIA 8.230	NNPDF3.0 _{NLO}	A14
Diboson ZZ, WZ	SHERPA 2.2.1 & 2.2.2	NLO	SHERPA	NNPDF3.0 _{NNLO}	SHERPA default
Triboson WWW, WWZ, WZZ, ZZZ	SHERPA 2.2.1 & 2.2.2	NNLO	SHERPA	NNPDF3.0 _{NNLO}	SHERPA default
Drell-Yan $Z/\gamma^* \rightarrow e^+e^-/\mu^+\mu^-/\tau^+\tau^-$	SHERPA 2.2.1	NLO	SHERPA	NNPDF3.0 _{NNLO}	SHERPA default