

MC Model	Tune	$f_{\text{DPS}} \pm (\text{stat.}) \pm (\text{syst.})$	$\sigma_{\text{A,B}}^{\text{DPS}} \pm (\text{stat.}) \pm (\text{syst.})$ (nb)	$\sigma_{\text{eff}} \pm (\text{stat.}) \pm (\text{syst.})$ (mb)
PYTHIA8 and HERWIG Samples				
PYTHIA8	CP5	0.0377 ± 0.0008 $^{+0.0045}_{-0.0068}$	22.9 ± 0.7 $^{+5.7}_{-7.3}$	22.2 ± 0.7 $^{+1.2}_{-0.8}$
PYTHIA8+VINCIA	Standard PYTHIA8.3	0.0241 ± 0.0007 $^{+0.0041}_{-0.0068}$	14.6 ± 0.6 $^{+4.4}_{-5.9}$	34.8 ± 1.3 $^{+1.0}_{-3.5}$
HERWIG7	CH3	0.0372 ± 0.0007 $^{+0.0038}_{-0.0068}$	22.6 ± 0.7 $^{+5.1}_{-7.3}$	22.5 ± 0.7 $^{+1.7}_{-0.7}$
HERWIG7	SoftTune	0.0267 ± 0.0007 $^{+0.0042}_{-0.0071}$	16.2 ± 0.6 $^{+4.6}_{-6.3}$	31.4 ± 1.1 $^{+1.1}_{-2.4}$
Multijet Samples				
MADGRAPH5 LO, PYTHIA8	CP5	0.0488 ± 0.0007 $^{+0.0036}_{-0.0064}$	29.6 ± 0.8 $^{+5.7}_{-8.2}$	17.2 ± 0.5 $^{+1.8}_{-1.5}$
MADGRAPH5 LO, PYTHIA8+VINCIA	Standard PYTHIA8.3	0.0543 ± 0.0007 $^{+0.0033}_{-0.0060}$	33.0 ± 0.8 $^{+5.9}_{-8.6}$	15.4 ± 0.4 $^{+1.8}_{-1.7}$
MADGRAPH5 NLO, PYTHIA8	CP5	0.1036 ± 0.0006 $^{+0.0026}_{-0.0050}$	63 ± 1 $^{+9}_{-13}$	8.1 ± 0.2 $^{+1.3}_{-1.4}$
POWHEG NLO $2 \rightarrow 2$, PYTHIA8	CP5	0.0857 ± 0.0004 $^{+0.0030}_{-0.0052}$	52 ± 1 $^{+8}_{-11}$	9.8 ± 0.2 $^{+1.4}_{-1.5}$
POWHEG NLO $2 \rightarrow 3$, PYTHIA8	CP5	0.0862 ± 0.0007 $^{+0.0030}_{-0.0058}$	52 ± 1 $^{+8}_{-12}$	9.7 ± 0.2 $^{+1.4}_{-1.5}$