

MC Model	Tune	$\sigma_{A,B}^{\text{DPS}} \pm (\text{stat}) \pm (\text{syst})$ (nb)		
		Full tune	Hard MPI removed	Inherent DPS
PYTHIA8	CP5	22.9 ± 0.7 ^{+5.7} _{-7.3}	38.5 ± 0.9 ^{+6.5} _{-9.4}	15.6 ± 1.1 ^{+6.1} _{-8.4}
PYTHIA8+VINCIA	Standard PYTHIA8.3	14.6 ± 0.6 ^{+4.4} _{-5.9}	23.3 ± 0.7 ^{+4.9} _{-7.1}	8.7 ± 0.9 ^{+4.7} _{-6.5}
PYTHIA8	CDPSTP8S1-4j	-7.9 ± 0.5 ^{+2.3} _{-2.9}	18.6 ± 0.6 ^{+4.6} _{-6.5}	26.5 ± 0.8 ^{+3.5} _{-4.7}
HERWIG7	CH3	22.6 ± 0.7 ^{+5.1} _{-7.3}	38.2 ± 0.9 ^{+6.4} _{-9.4}	15.6 ± 1.1 ^{+5.8} _{-8.4}
HERWIG7	SoftTune	16.2 ± 0.6 ^{+4.6} _{-6.3}	29.5 ± 0.8 ^{+5.6} _{-8.6}	13.3 ± 1.0 ^{+5.1} _{-7.5}
MADGRAPH5_aMC@NLO	CP5	15.2 ± 0.6 ^{+4.2} _{-6.1}	31.2 ± 0.8 ^{+5.5} _{-8.1}	16.0 ± 1.0 ^{+4.9} _{-7.1}
LO 2 \rightarrow 2,3,4, PYTHIA8				
MADGRAPH5_aMC@NLO	Standard	15.5 ± 0.6 ^{+4.3} _{-6.0}	31.8 ± 0.8 ^{+5.3} _{-8.0}	16.3 ± 1.0 ^{+4.8} _{-7.0}
LO 2 \rightarrow 2,3,4, PYTHIA8.3				
PYTHIA8+VINCIA				
MADGRAPH5_aMC@NLO	CP5	43.3 ± 1.0 ^{+4.5} _{-9.4}	70 ± 2 ⁺⁸ ₋₁₃	26.7 ± 2 ⁺⁶ ₋₁₁
NLO 2 \rightarrow 2, PYTHIA8				
POWHEG NLO 2 \rightarrow 2, PYTHIA8	CP5	29.0 ± 0.9 ^{+5.3} _{-6.1}	66 ± 3 ⁺⁷ ₋₁₂	37.0 ± 3.1 ^{+6.2} _{-9.1}
POWHEG NLO 2 \rightarrow 3, PYTHIA8	CP5	32.8 ± 0.9 ^{+5.9} _{-8.3}	39.5 ± 1.0 ^{+6.3} _{-9.2}	6.7 ± 1.3 ^{+6.1} _{-8.8}