

PYTHIA 8 parameter	CP2 [13]	CP2-CR1	CP2-CR2
PDF set	NNPDF3.1 LO	NNPDF3.1 LO	NNPDF3.1 LO
$\alpha_S(m_Z)$	0.130	0.130	0.130
SpaceShower:rapidityOrder	off	off	off
MultipartonInteractions:ecmRef [GeV]	7000	7000	7000
$\alpha_S^{\text{ISR}}(m_Z)$ value/order	0.130/LO	0.130/LO	0.130/LO
$\alpha_S^{\text{FSR}}(m_Z)$ value/order	0.130/LO	0.130/LO	0.130/LO
$\alpha_S^{\text{MPI}}(m_Z)$ value/order	0.130/LO	0.130/LO	0.130/LO
$\alpha_S^{\text{ME}}(m_Z)$ value/order	0.130/LO	0.130/LO	0.130/LO
StringZ:aLund	—	0.38	—
StringZ:bLund	—	0.64	—
StringFlav:probQQtoQ	—	0.078	—
StringFlav:probStoUD	—	0.2	—
SigmaTotal:zeroAXB	off	off	off
BeamRemnants:remnantMode	—	1	—
MultipartonInteractions:bProfile	2	2	2
ColourReconnection:mode	—	1	2
MultipartonInteractions:pT0Ref [GeV]	2.306	2.154	2.287
MultipartonInteractions:ecmPow	0.139	0.119	0.146
MultipartonInteractions:coreRadius	0.376	0.538	0.514
MultipartonInteractions:coreFraction	0.327	0.599	0.525
ColourReconnection:range	2.323	—	—
ColourReconnection:junctionCorrection	—	0.761	—
ColourReconnection:timeDilationPar	—	13.080	—
ColourReconnection:m0	—	1.546	—
ColourReconnection:m2lambda	—	—	6.186
ColourReconnection:fracGluon	—	—	0.978
N_{dof}	183	117	118
χ^2/N_{dof}	0.54	0.21	0.22