

PYTHIA8 Parameter	CP2 [? ]	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
$N_{\text{dof}}$	183	117	118
$\chi^2/N_{\text{dof}}$	0.54	0.21	0.22