

PYTHIA6 Parameter	Tuning Range	Tune Z2*lep	CUETP6S1	CUETP6S1
PDF	—	CTEQ6L1	CTEQ6L1	HERAPDF1.5LO
PARP(82) - MPI cutoff [GeV]	1.6–2.2	1.921	1.910	1.946
PARP(90) - Exponent of \sqrt{s} dependence	0.18–0.28	0.227	0.248	0.250
PARP(77) - CR suppression	0.25–1.15	1.016	0.665	0.667
PARP(78) - CR strength	0.2–0.8	0.538	0.545	0.537
PARP(83) - Matter fraction in core	0.1–1.0	0.356	0.822	0.490
PARP(89) - Reference energy [GeV]	—	1800	1800*	1800*
χ^2/dof	—	—	0.915	1.004

* Fixed at Tune Z2*lep value.