

Parameter	PW+PY8 simulation setups									
	CUETP8M2T4	Extreme variations		Fine grain variations						
		no MPI	no CR	MPI/CR	Parton shower scale			CR including tt		
			UE up/down	ISR up/down	FSR up/down	ERD on	QCD based [32]	Gluon move [4]	Rope (no CR) [33, 34]	
PartonLevel MPI	on	off								
SpaceShower renormMultFac alphaSvalue	1.0 0.1108				4/0.25			0.2521		
TimeShower renormMultFac alphaSvalue	1.0 0.1365					4/0.25		0.2521		
MultipartonInteractions pT0Ref ecmPow expPow	2.2 0.2521 1.6			2.20/2.128 1.711/1.562				2.174 0.2521 1.312	2.3 1.35	
ColorReconnection reconnect range mode junctionCorrection timeDilationPar m0 flipMode m2Lambda fracGluon dLambdaCut	on 6.59 0		off	6.5/8.7				1 0.1222 15.86 1.204	2 0 1.89 1 0	(off)
PartonVertex setVertex										on
Ropewalk RopeHadronization doShoving doFlavour										on on on
PartonLevel earlyResDec	off						on	on	on	on