PYTHIA 6.206 Field/CDF Tune Set A (CTEQ5L)			
Parameter	**Default**	**Tune**	**Description**
PARP(67)	1.0	**4.0**	Scale factor that governs the amount of initial-state radiation.
MSTP(81)	1	**1**	Turns on multiple parton interactions (MPI).
MSTP(82)	1	**4**	Double Gaussian matter distribution.
PARP(82)	1.9	**2.0**	Cut-off for multiple parton interactions, P_{T0}.
PARP(83)	0.5	**0.5**	Fraction of energy in core radius.
PARP(84)	0.2	**0.4**	Core radius.
PARP(85)	0.33	**0.9**	Probability that the MPI produces two gluons with color connections to the "nearest neighbors".
PARP(86)	0.66	**0.95**	Probability that the MPI produces two gluons either as described by PARP(85) or as a closed gluon loop. The remaining fraction consists of quark-antiquark pairs.
PARP(89)	1,000.0	**1,800.0**	Determines the reference energy E_0.
PARP(90)	0.16	**0.25**	Determines the energy dependence of the cut-off P_{T0} as follows $P_{T0}(Ecm) = P_{T0}(Ecm/E_0)^{PARP(90)}$.

PYTHIA ATLAS tune (CTEQ5L)			
Parameter	**Default**	**Tune**	**Description**
PARP(67)	1.0	**1.0**	Scale factor that governs the amount of initial-state radiation.
MSTP(81)	1	**1**	Turns on multiple parton interactions (MPI).
MSTP(82)	1	**4**	Double Gaussian matter distribution.
PARP(82)	1.9	**1.8**	Cut-off for multiple parton interactions, P_{T0}.
PARP(83)	0.5	**0.5**	Fraction of energy in core radius
PARP(84)	0.2	**0.5**	core radius.
PARP(85)	0.33	**0.33**	Probability that the MPI produces two gluons with color connections to the "nearest neighbors".
PARP(86)	0.66	**0.66**	Probability that the MPI produces two gluons either as described by PARP(85) or as a closed gluon loop. The remaining fraction consists of quark-antiquark pairs.
PARP(89)	1,000.0	**1,000.0**	Determines the reference energy E_0.
PARP(90)	0.16	**0.16**	Determines the energy dependence of the cut-off P_{T0} as follows $P_{T0}(Ecm) = P_{T0}(Ecm/E_0)^{PARP(90)}$.

	ATLAS	CMS	LHCb	ALICE
η_{ch}	|2.5|	|2.5|	1.8-4.9	|0.9|
η_{all}	|5|	|5| default |7| extended	1.8-4.9	??
p_T^{ch} (threshold)	0.5	1.0 default 0.5 extended recons	0.2	0.1-0.2
Particle ID			K/π:1-100 GeV K/p: ??	K/π: <3GeV K/p:<5GeV