WG2: MC Development and Tuning (Testing)

(P.J. Ilten, K. Werner)

model	speaker	
QGSJETII	Sergej Ostapchenko	Fock states, importance for forw physics, dijet production
EPOS3	Benjamin Guiot	Implementing Q_s in GR framework, charm in HM events
IP-Glasma	Prithwish Tribedy	CGC -> gluon fields -> Lund strings -> flow like
SIBYLL	Felix Riehn	Retune to fit cross sections, remnants and charm production added
DPMJETIII	Anatoli Fedynitch	Retune using 7TeV LHC data, s-dependent p_t cutoff
HERWIG	Stefan Gieseke	Diffraction added, soft particle production, s-dependent p_t cutoff

Monte Carlo activities in ALICE (status and prospects)	Jochen KLEIN
Tuning Monte Carlo generators with LHCb results	Marco ADINOLFI
MC tuning for Multiple Parton Interactions from the ATLAS data	Valentina Maria CAIRO
Monte Carlo development and tuning with CMS	Paolo GUNNELLINI

FB long-range multiplicity correlations in pp collisions at LHC energies	Edgar DOMINGUEZ ROSAS
Looking for more evidence of collective effects in small systems	Sergio IGA

- ☐ development of modern and comprehensive heavy ion Monte Carlo
- ☐ centralized location providing fast and easy comparison between tunes
- ☐ unified tuning effort from LHC
- ☐ high multiplicity tuning and validation
- ☐ possible overview document to guide using the right tool for the right analysis