



PS reprocessing

- Three-four days for reprocessing all PS data
- Now all processed with BeamtestRelease v4r0909p11
- Failures
 - Update ELog – 1 failure
 - Run 700001238 cannot determine digitability
 - Run for testing DAQ for Cerenkov and NaI
 - Digitization – 4 failures
 - Run 700000611 event time before calibrations (first to be reprocessed)
 - Run 700001033 – 700001034 – 700001037 CAL CPT tests
 - Recon – 3 failures
 - Run 700001387 no FE → chunk
 - Run 700001380 – 700001390 problems in Analysis Ntuples
 - Svac – 1 failure
 - Run 700000990 error in ReconTree()
 - Future Reprocessing for SPS
 - u37 67% full



MC Problems – Suggestions – Improvements -- I

- **New MC to be generated with BeamtestRelease v4r0909p11**
- **Beam properties & setup for PS (electrons)**
 - **See Luca work**
 - **Claudia et al. work.**
 - **Need more info for positrons, protons runs**
- **Beam properties for SPS**
 - **Initial work by David**
- **Position of ancillary and other (e.g. MMS – Mizuno)**
- **CU updates**
 - **Table position (Luca et al., Stefan)**
 - **Tungsten layers thickness update (Sandro)**
 - **Calorimeter calibrations (Philippe)**
 - **Tracker ToT (Monica et al.)**
 - **Acid Digi (Luis)**



MC Problems – Suggestions – Improvements -- II

- **Calibration flavor**
 - Vanilla instead of ideal
- **New features**
 - **Caltuple inclusion (Jan)** – need modification of pipeline for MC in progress
 - Digi/Recon merging – by hands (Johan)
- **G4 modification**
 - **Hadronic Physics (contact with D.Wright – SLAC)**
 - LHEP, LHEP_BIC, LHEP_BERT
 - QGSP, QGSP_BIC, QGSP_BIC
 - GLAST, LC, Space Electronics
 - **EM range cutoff**
 - Not Affecting particle near boundary?
 - BackSplash in CAL & range
 - **MCS simulation**



MC priority list

- **Beam description for PS and SPS for all configurations**
- **Vanilla calibrations**
- **SPS discrepancy – how these changes affects PS data?**
 - **From Leon (see below)**
 - **Range cutoff**
 - **Physics Lists**
 - **Electronics**
- **Energy disagreement for protons**
 - **Physics Lists**
- **Positrons Simulations**
 - **Discrepancy of number of tracks**
- **Other in parallel**
 - **CAL tuples, digi, recon**



MC simulations strategy

- **Set of Standard Configuration for all runs**
 - a set of order 1K MC runs
 - Nomenclature?
 - New Confluence page for particle type / Accelerator
 - Link from DB?
- **Modifications of MC parameters per particle type**
 - E.g. 10 GeV e- with different Physics List or Range?
 - How to keep track?