Data (re)processing

- **Three-four days for reprocessing all PS data at end of Sep**
- **All processed with BeamtestRelease v4r0909p11**
- **Not SPS → still with previous releases**
- **TKR ToT calibration issue?**
- **ACD calibrations?**
- **Reprocessing for PS / SPS**
  - **u37 67% full**
  - **Other disk?**
- **Processing for GSI**
  - **GCR calib not yet included**

MC Problems – Suggestions – Improvements -- I

- **New MC to be generated with BeamtestRelease v4r0909p11**
- **Beam properties & setup for PS & SPS**
  - **Work on going (**need custom MC & check for each run**)**
- Position of Ancillary (**S3, SHole**, EM Cal, Dump)
- **CU updates**
  - **Table position**
  - **Tungsten layers thickness update**
  - **Calorimeter calibrations**
  - **Tracker ToT**
  - **Acd Digi**
  - **ACD support structure**
  - **MMS update**

MC Problems – Suggestions – Improvements -- II

- **Calibration flavor**
  - **Vanilla (done in BeamTest-0192 first check)**
  - **Dates?**
- **New features**
  - **Caltuple inclusion – need modification of pipeline for MC in progress – needed by which analysis?**
  - **Digi/Recon merging – by hands**
  - **SVAC from MC to be included in pipeline**
- **G4 modification**
  - **Hadronic Physics – G4HadronPhys**
    - **LHEP, LHEP_BIC, LHEP_BERT**
    - **QGSP, QGSP_BIC, QGSP_BIC**
    - **GLAST, LC, Space Electronics**
  - **EM range cutoff**
  - **BackSplash in CAL & range**
  - **MCS simulation (need more stat)**
  - **Low Energy EM physics**
- **Custom MC for e+ annihilation**

MC priority list

- **Beam description for PS and SPS for all configurations**
- **Standalone CU sim (avoid beamtest06?)**
- **Vanilla calibrations**
- **PS & SPS discrepancies**
- **Energy disagreement**
  - **Other Physics Lists to be checked**
- **Positrons & Proton Simulations**
  - **New geometry to be checked**

MC simulations strategy - I

- **CERN**
  - **beamtest06**
    - **Beam Setup**
    - **Geometry check**
    - **Trigger On/Off**
    - **Particle Cuts?**
  - **CU sim**
    - **Vanilla Calib check**
    - **Table Position**
    - **JO check?**
    - **Physics List**

MC simulations strategy - II

- **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?**

GSI status

- **No beam description (needed?)**
- **C 1.5 GeV per Nucleon**
- **CU sim**
  - **Beam description to be updated**
  - **TKR digi?**
  - **TKR recon to be updated to new versions**
  - **MIP finder?**
  - **GCR calib**