

BT Sim Status 28 nov 07

Simulation Status

- Pass5 variables in BTRRelease tag v7r1215p0, in sync GR v12r15, with following exceptions:
 - G4Generator v5r19p0 and G4HadronSim v1r2p0, Ion Physics for QGSP_BERT
 - BR continues to use AcdUtil v1r4p1, AcdDigi v1r20, and AcdRecon v3r7p2 (tags of GR v11r17), because with newer tags the code terminates in AcdUtil::AcdTileDim().
 - xmlGeoDBs v1r47p1, air instead of the virtual calorimeter in bay 0
 - In the release manager, all compiles, and several test programs (more than usual) core dump. Probably incompatibility of the older AcDxxx and the new xmlGeoDBs tag due to changed ACD tile geometry, for the LAT model! However, BR seems to run. ldf2digi and readigi_runrecon on one PS (700001460) and one SPS (700002082) run reproduced previous root files. But still, use with care!
- New simulations for special configuration of run 2082
 - with beam energy increased by average discrepancy for run 2082: [svac](#) , [merit](#) (some cal distributions, [Energy and TransRms](#), [Energy per Layer](#), [Energy profile](#))
 - with the Bari digit that simulated charge sharing: [svac](#) , [merit](#)
 - with improved Beam Spot (correct VtxYDir) : [svac](#) , [merit](#)
- Dead strips are in MC, see for example run 2082 in Tower 2 that has a large dead area on plane 31
 - at the RECON level : [layer 31 strip chart](#)
 - at the DIGI level : [Tower 2 plane 31 digi strip chart](#)
- SPS veto counter simulation bug: