BT summary plots

This is an attempt to gather the most meaningful plots from the many BT analysis performed. This collection or parts of it should be used for:

- summarize the results to the collaboration
- summarize the results to the Geant4 collaboration to request their help on specific processes

Italics are used to highlight plots to be produced

Discrepancies plots

TKR

- total number of hits MC/data ratio summary: currently available for photons and electrons; need a similar plot for hadrons Nicola
- total number of cluster MC/data ratio summary: currently available for photons and electrons; need a similar plot for hadrons Nicola
- average cluster size MC/data ratio summary: TBD for gammas, electrons, hadrons Nicola?
- Total TKR hits for 5GeV pi and 150GeV p, Data and MC Johan; redo after G4 bug fix in extlib

TKR hits and clusters in hadron runs: see Nicola's talk given to the EVO meeting on Jul 18th, 2007.

CAL

- Raw energy deposit 2003 data, 2006 data, G4v6MC, G4v8MC Johan
- Ad hoc correction factors for data/MC CalEnergyRaw agreement Philippe
- Summary at 90 degrees and on CAL1
- · Longitudinal profile fits with gamma function Philippe, Benoit, Nicola

MonteCarlo Verifications

Geant4 verifications

- shower development for data, BTRelease, standalone tower simulation with and w/o beamtest06 Johan
- G4 vs G3, range cuts, LE EM physics Francesco
- · Comparison with Mars15 David

Performance Plots

- TKR PSF: extend to LE (Luca) and to high energy electrons (Nicola)
- ACD backsplash probability Luis, Tyrel

Angular resolution with high energy electrons (see Nicola's talk given at teh EVO meeting on Jul, 18 2007).

The angle has been evaluated with respect to the nominal beam direction bu using the first track directions. The angle distributions look like gaussian, then they are fitted with a gauss function to evaluate the peak value (MPV) and the sigma value. These results are preliminary, since the CU needs to be better alligned with to respect the beam direction.



