Temporal development of showers in mcd00

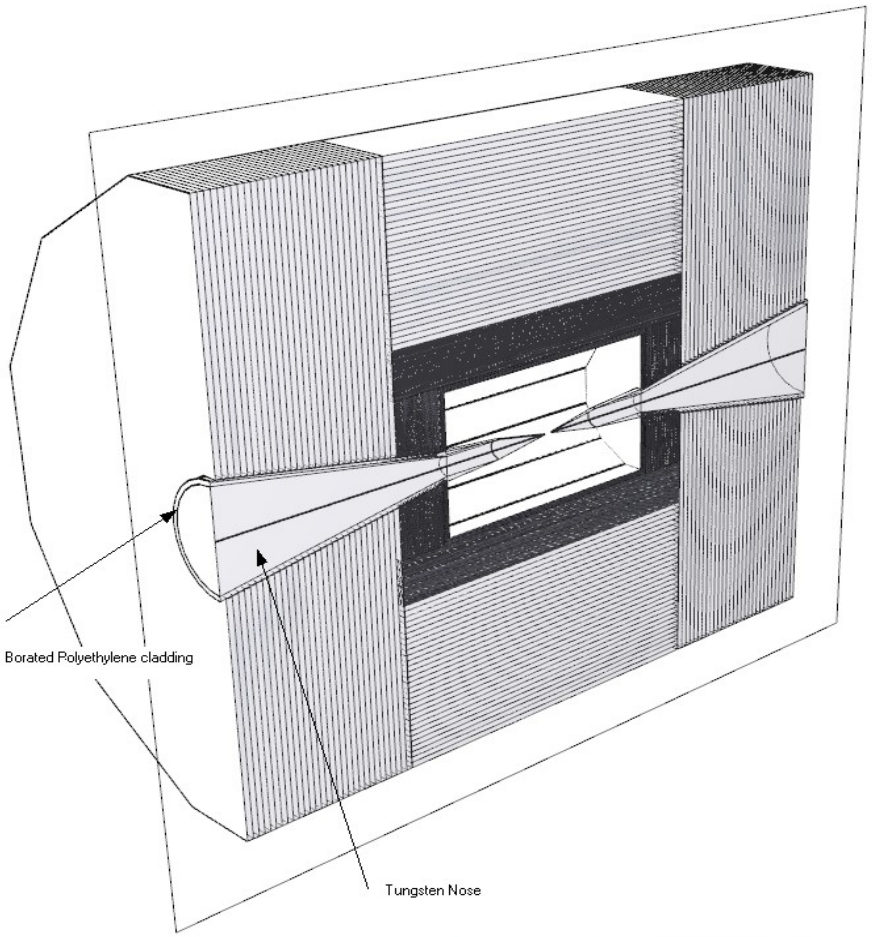
Hans Wenzel

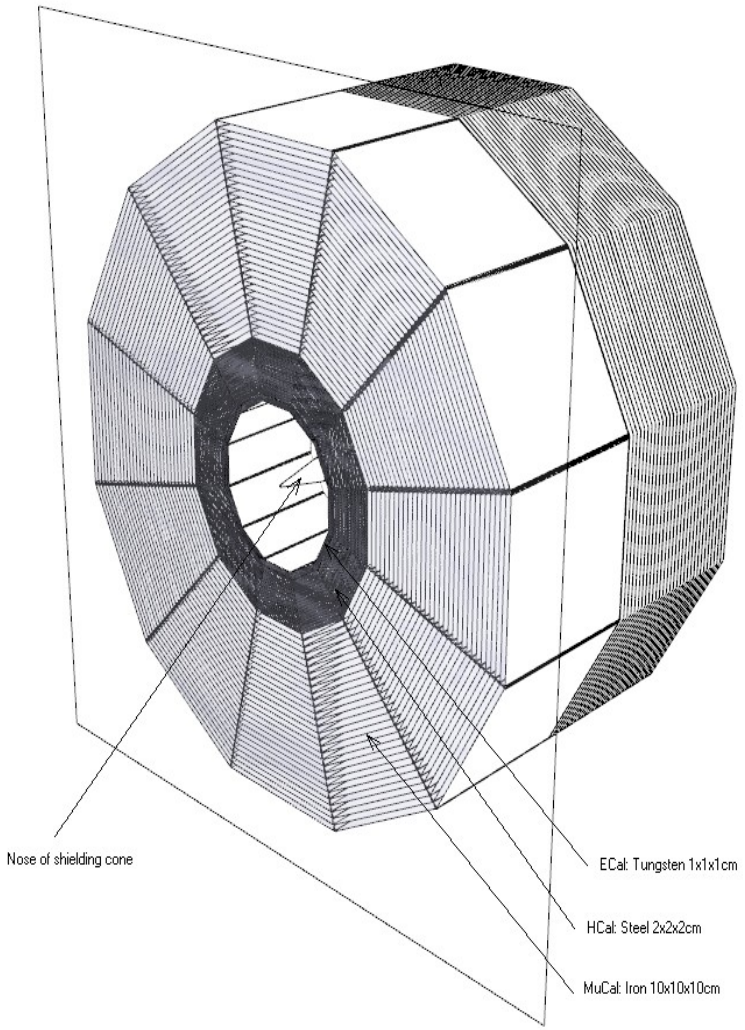
Fermilab

Muon Collider 2011

July 29

Muon Collider Detector in lcsim



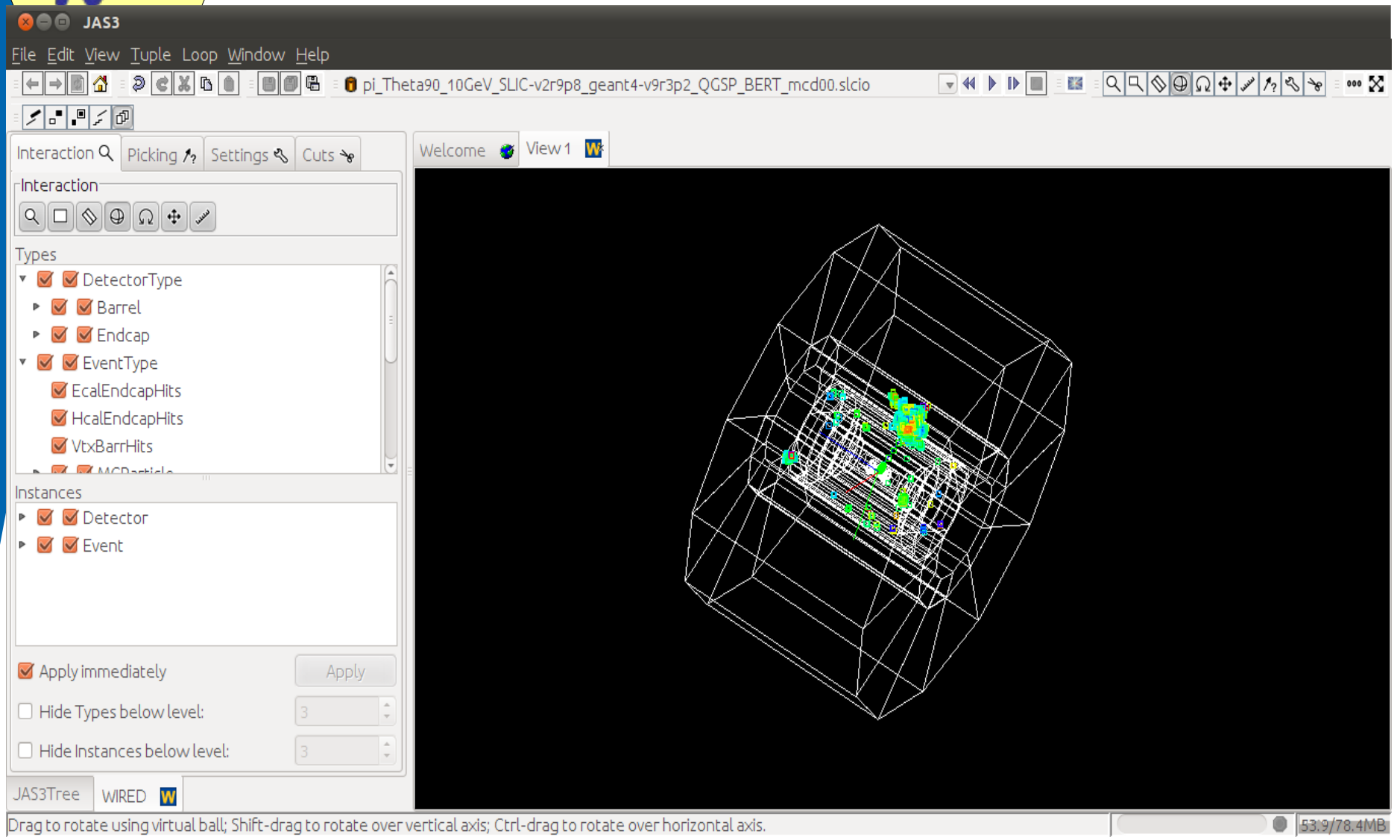


Norman Graf

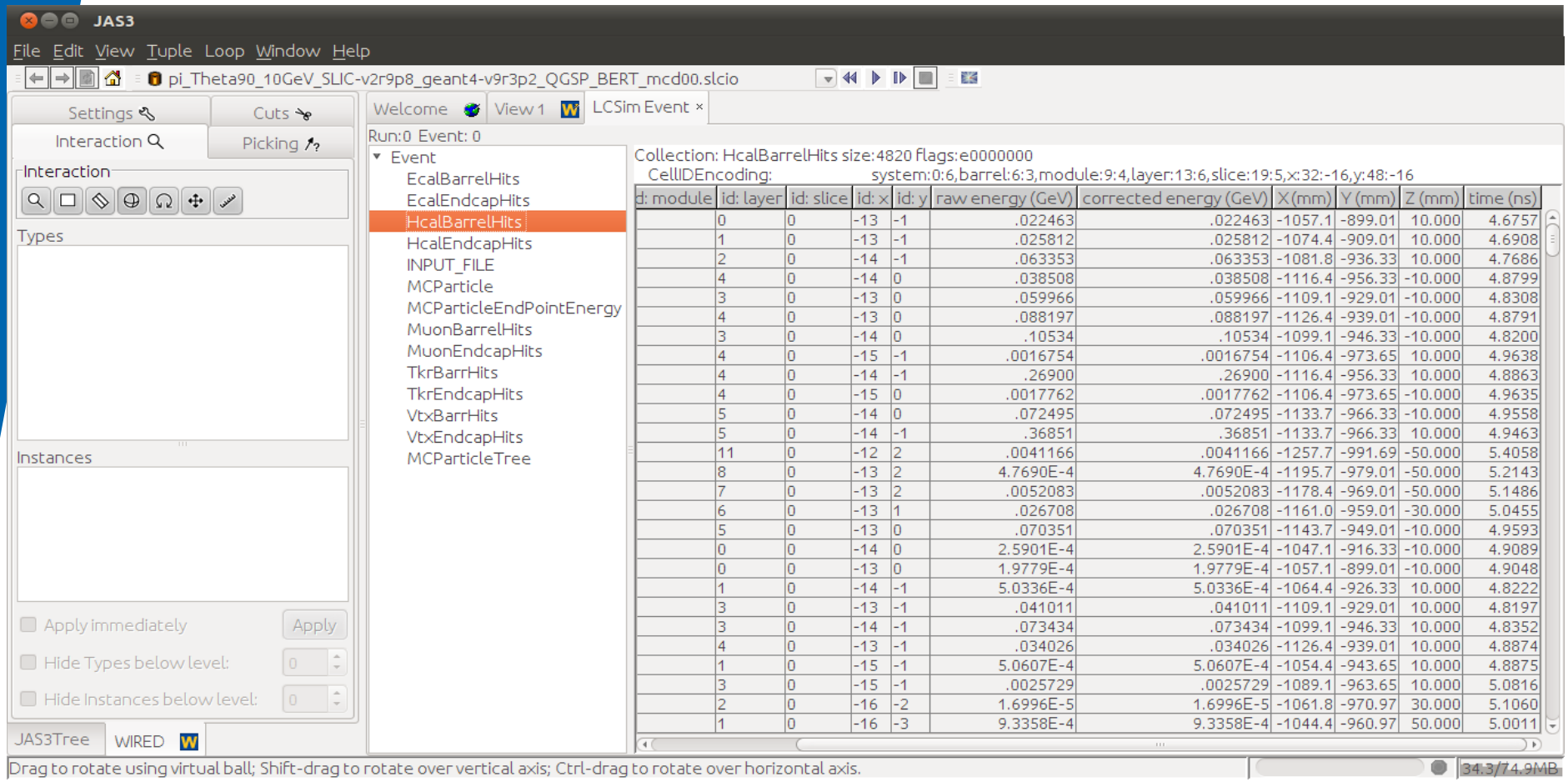
- Uses lcio hits. (report only the time of the first energy deposition)
- No threshold cuts
- No clustering. We know there is only one particle and sum up all the energy of all the calorimeter cells.

Single particle Data sets using mcd00 detector found in:
ftp://ftp-lcd.slac.stanford.edu/ilc3/MUC/backgrounds/slcio/slic/

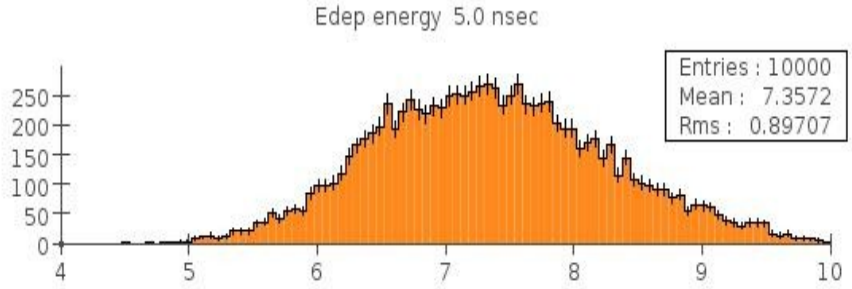
Wired Event display

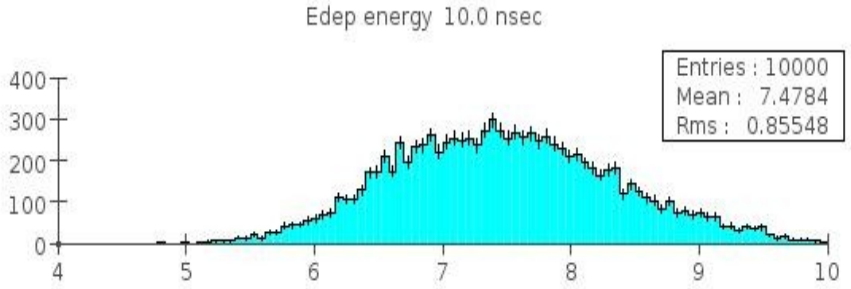


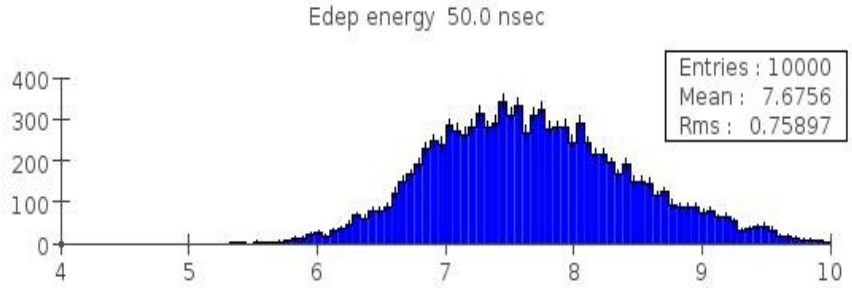
LCIO-Data Browser

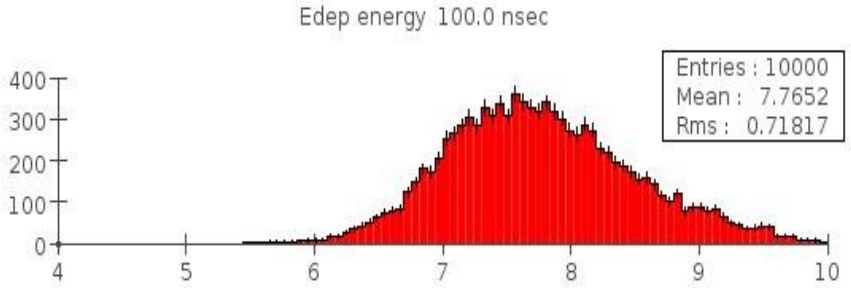


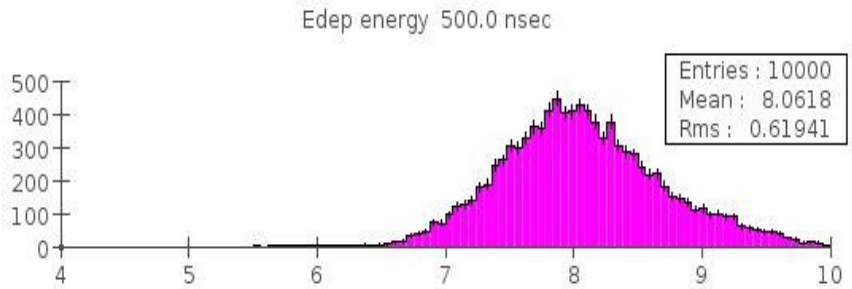
Pion energy response for single pions.

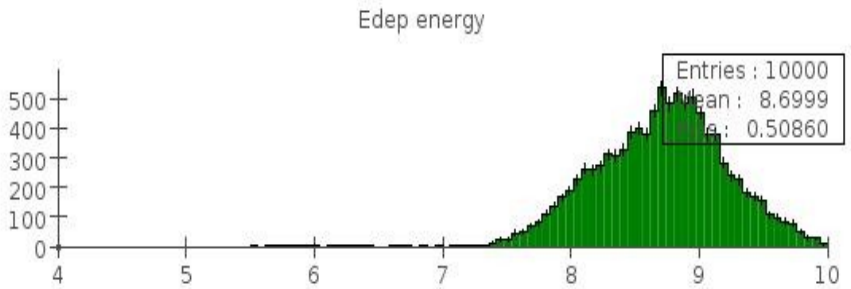




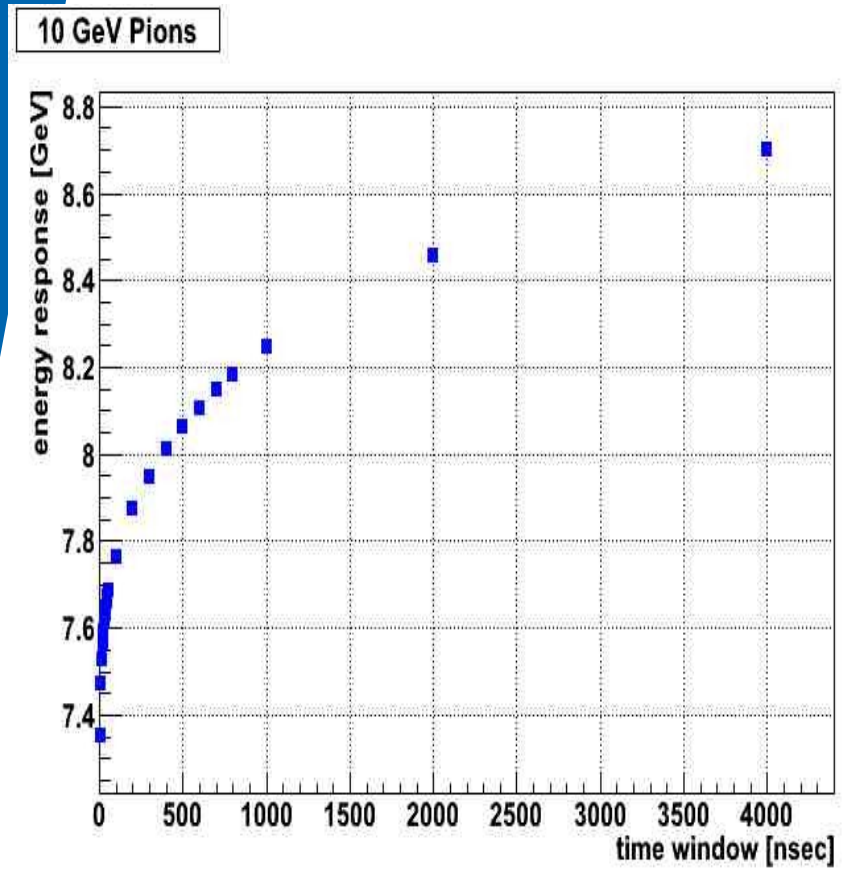


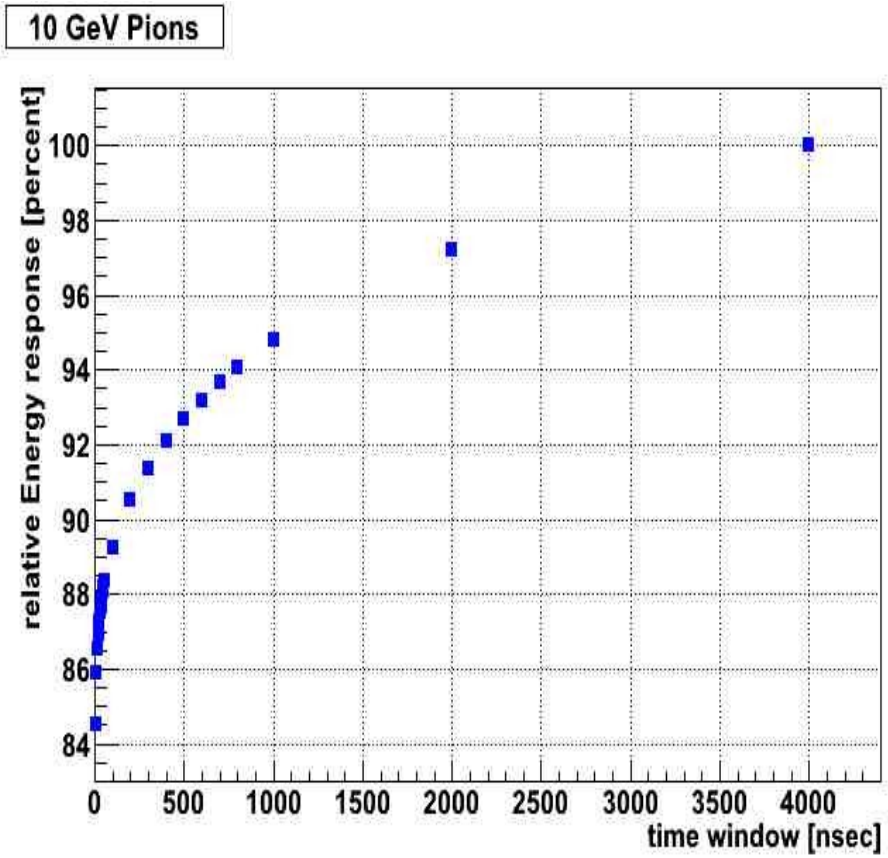




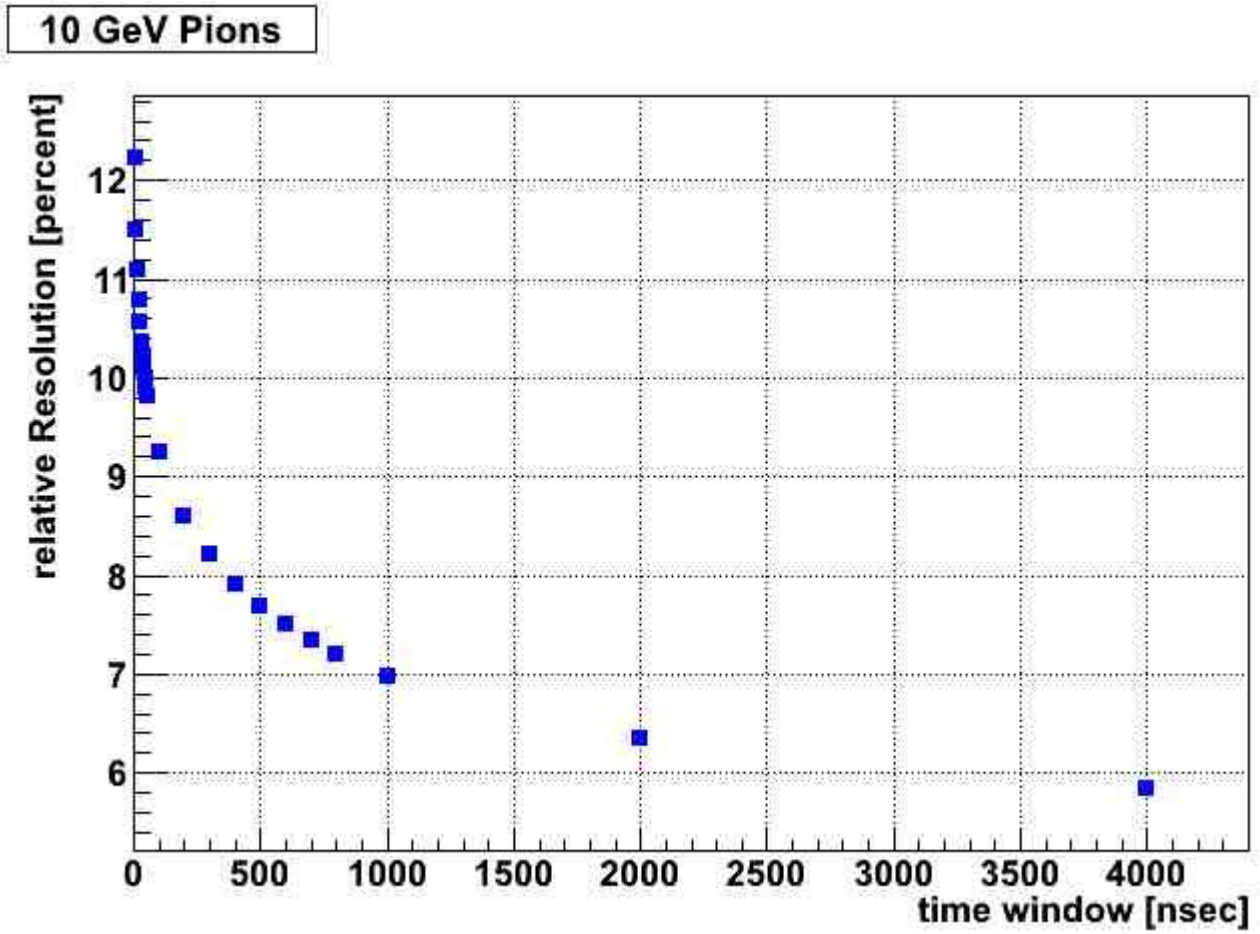


Temporal development of hadronic (pion) showers

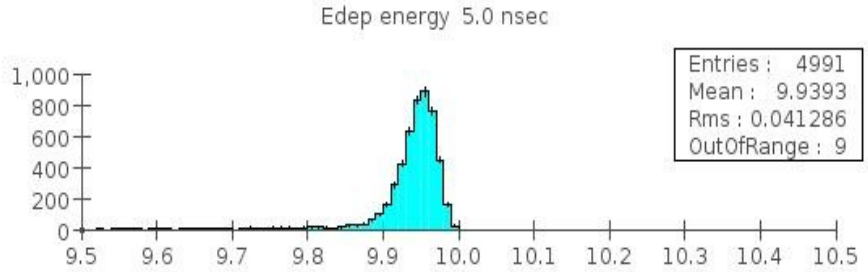


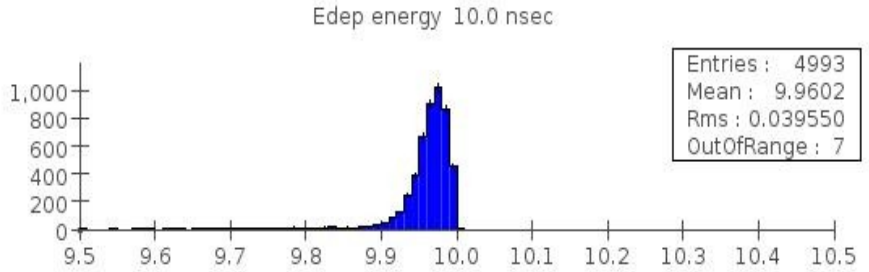


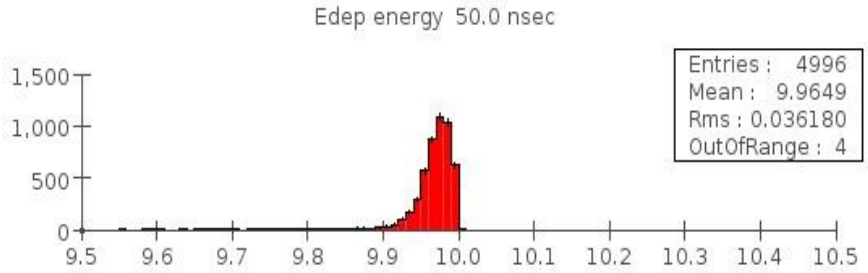
Energy resolution

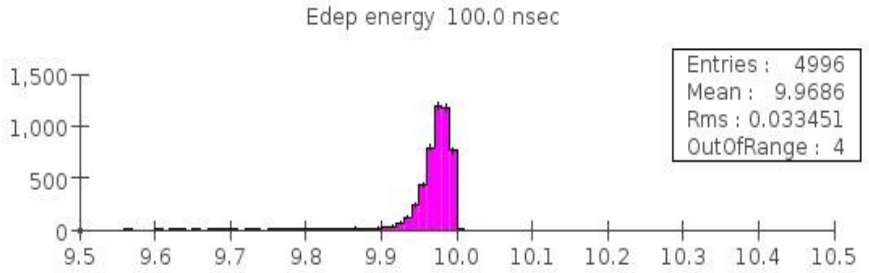


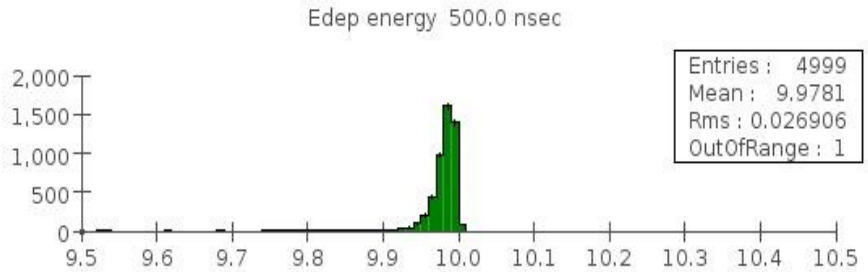
Energy response for single electrons

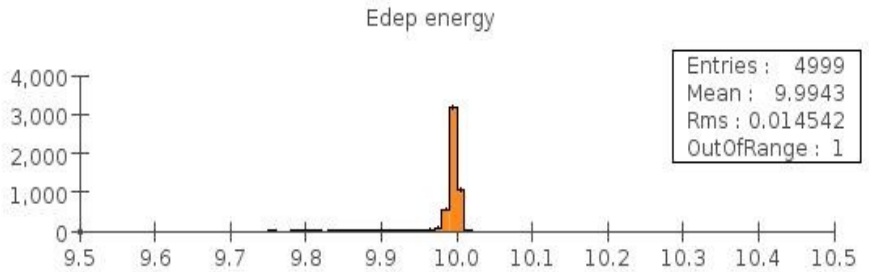




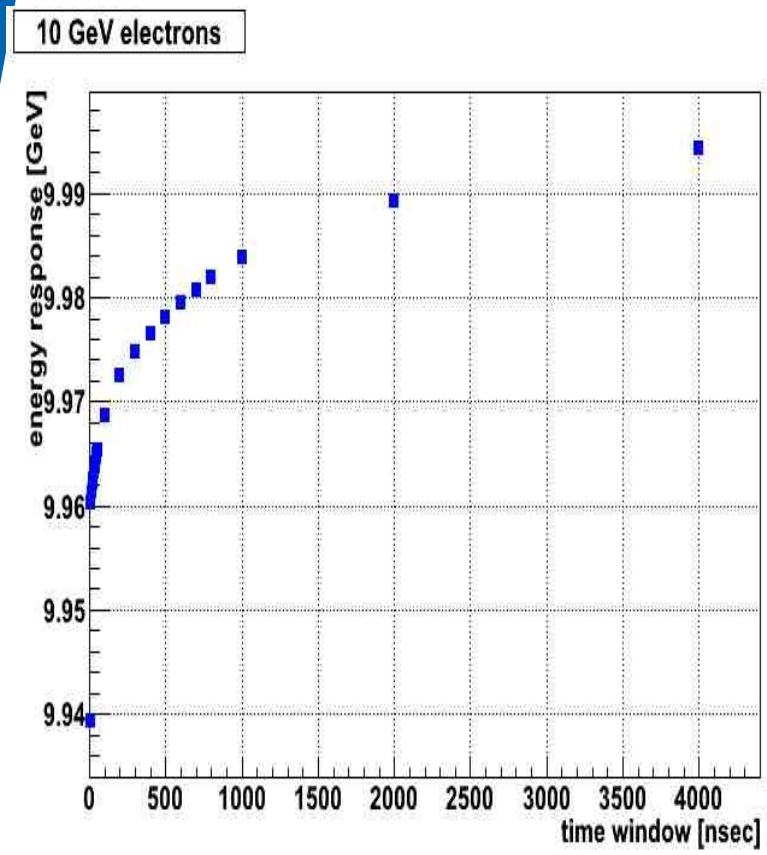


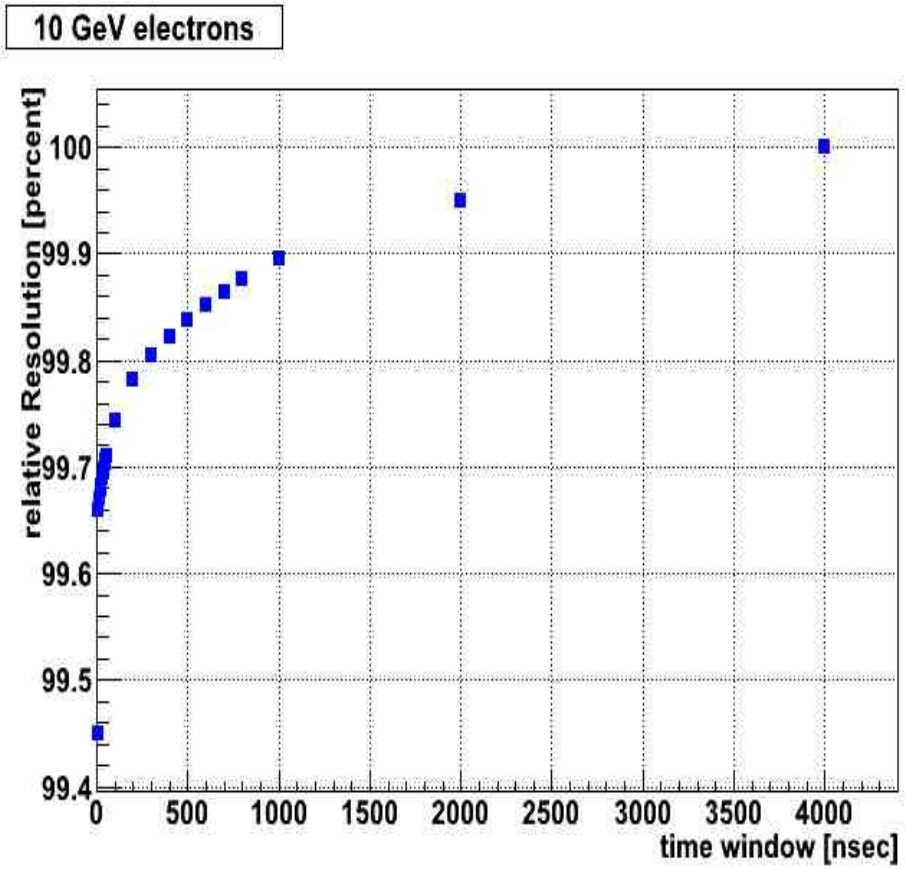






Energy response electrons





Energy resolution