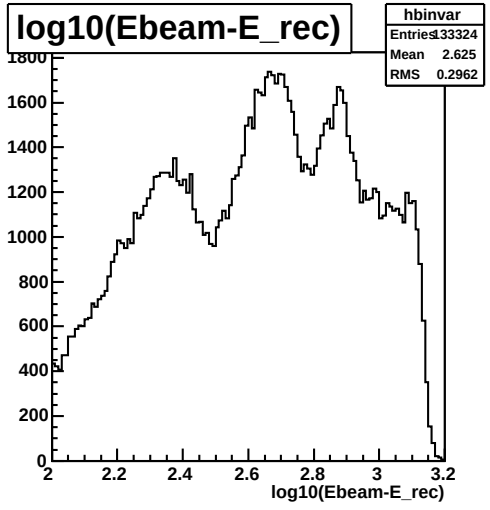
Energy resolution analysis

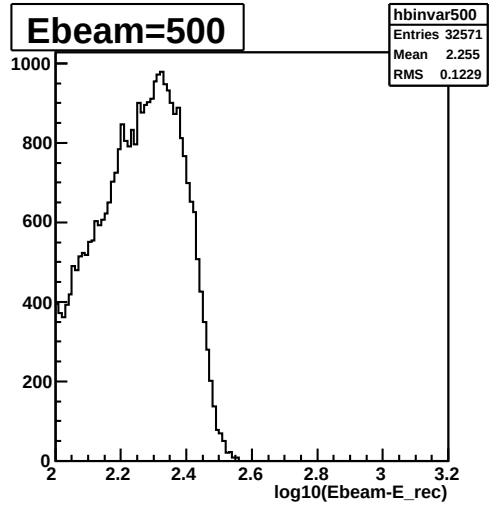
- Preliminary !
- tagged photons runs
- Ebeam = 500, 1000, 1500 and 2500 MeV
  - 0 deg : 133000 evts after cuts
  - 30 deg : 108000 evts after cuts
  - 48 deg : 130000 evts after cuts

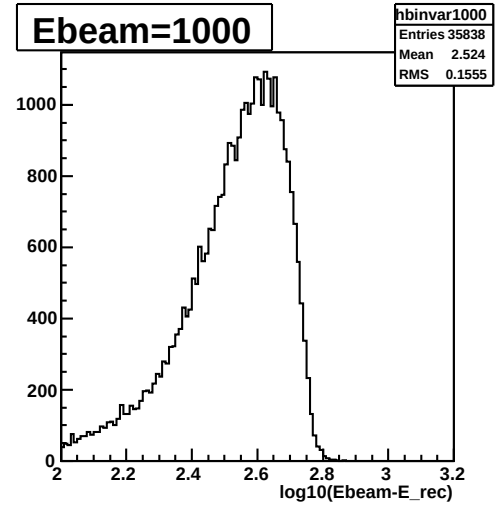
Incoming gamma resolution

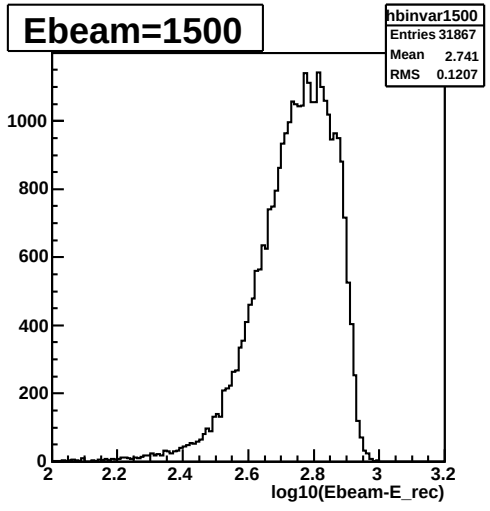
- tagger resolution at 600 A : 1%
- tagger resolution proportional to $1/B$
- $\sigma_{beam} = 1\%$
- for each configuration :
  - determine the beam+tagger resolution as function of the energy for each beam energy
  - for each bin in energy, determine the average of the beam+tagger resolution taking into account the fraction of events from 500, 1000 and 2500 MeV beam
  - correct the CU resolution for the beam+tagger resolution

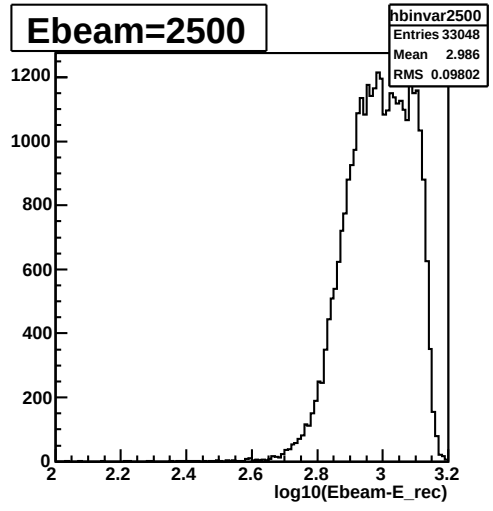
statistics 0 deg



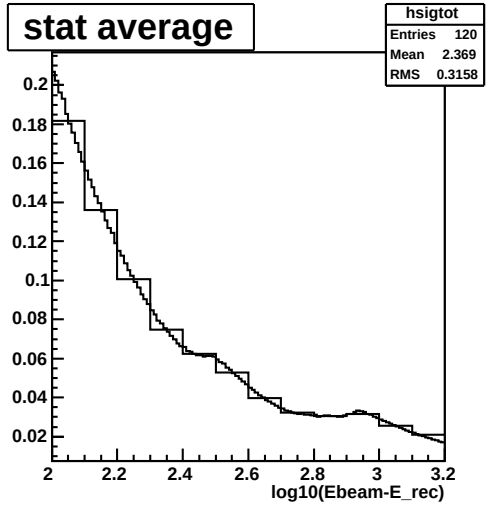


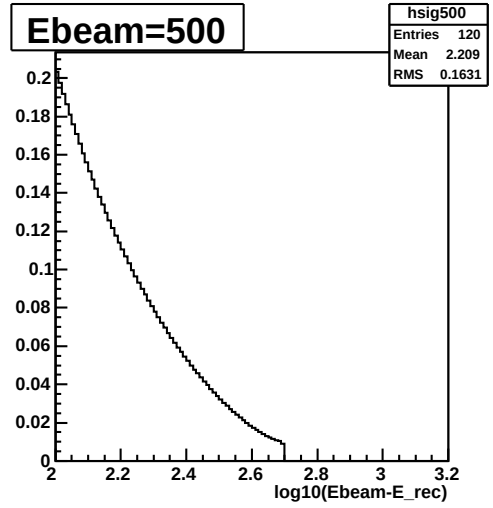


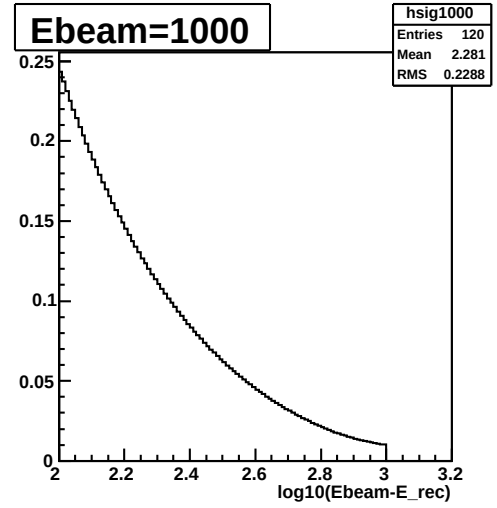


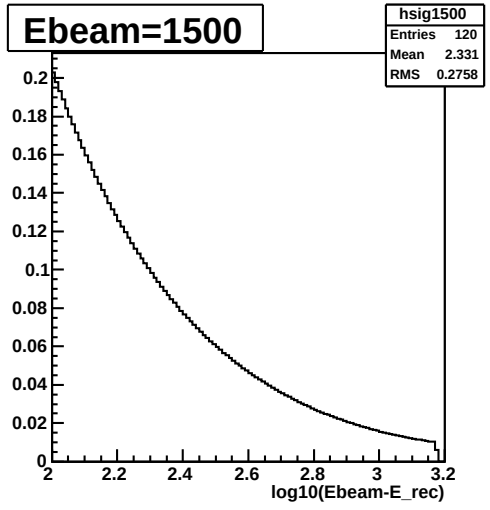


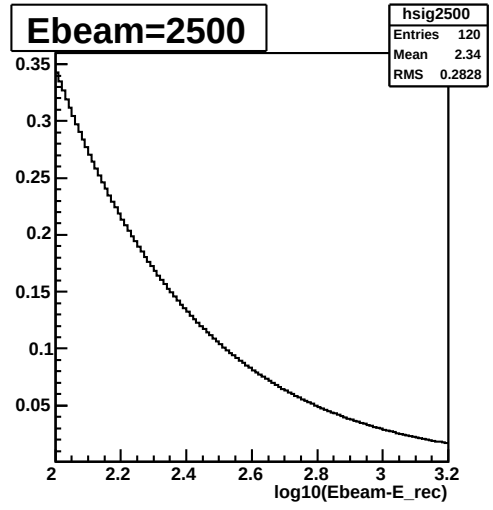
beam+tagger resolution 0 deg



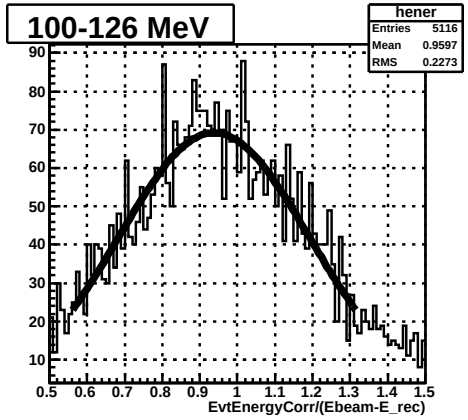


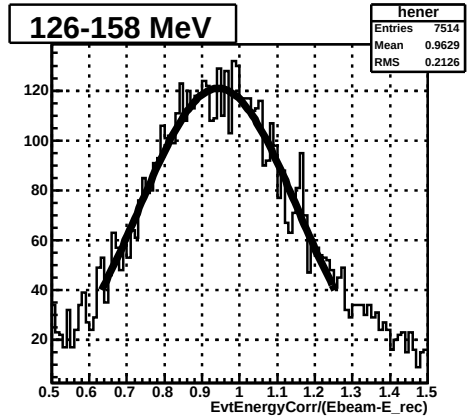


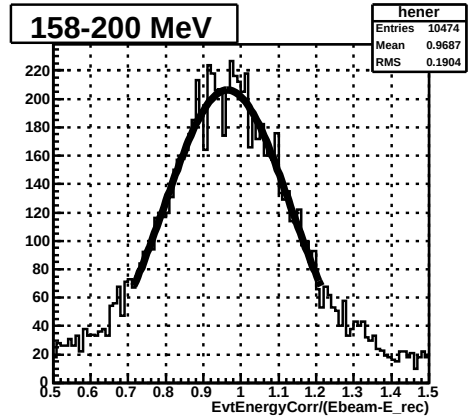


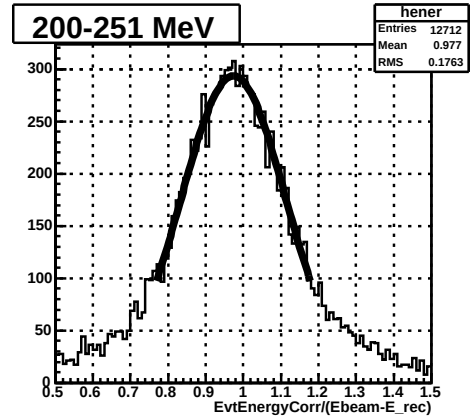


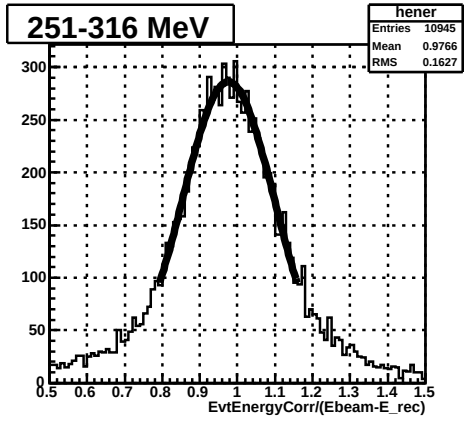
EvtEnergyCorr 0 deg

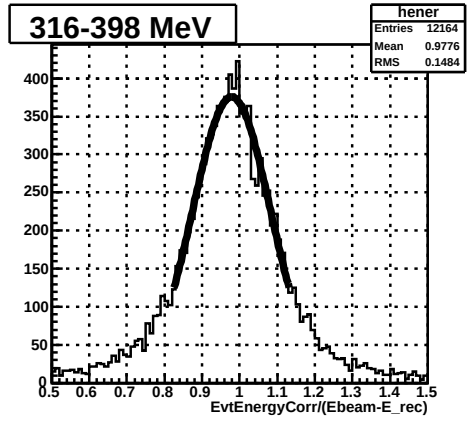


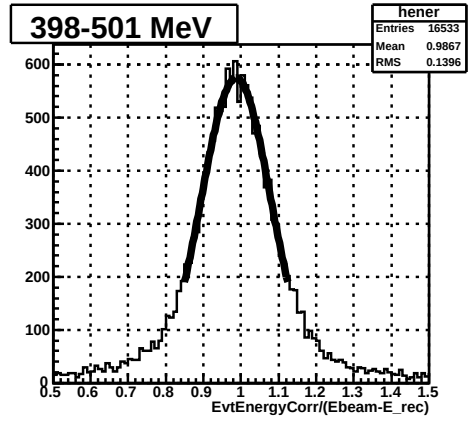


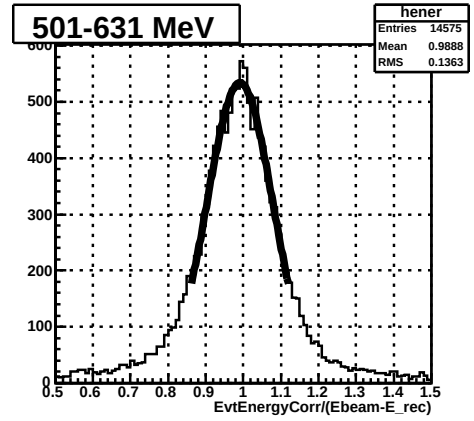


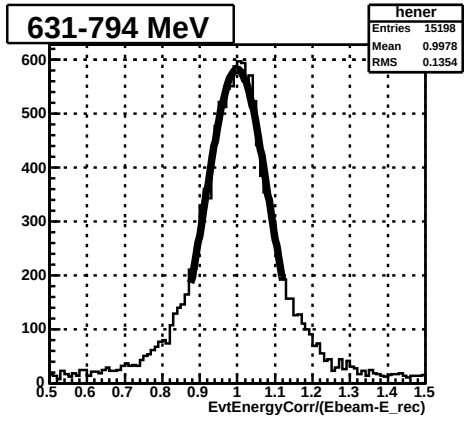


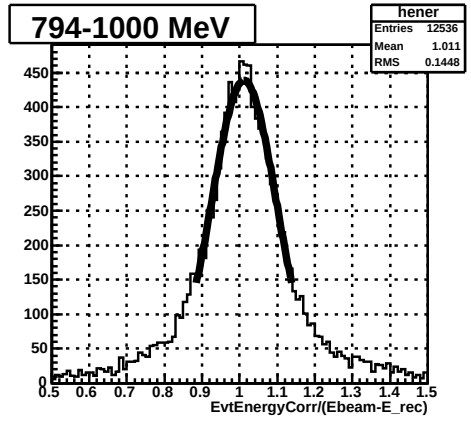


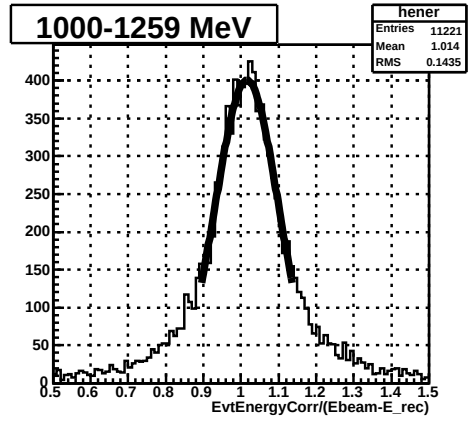


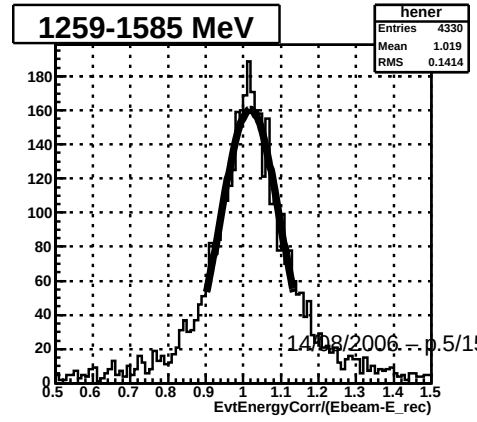




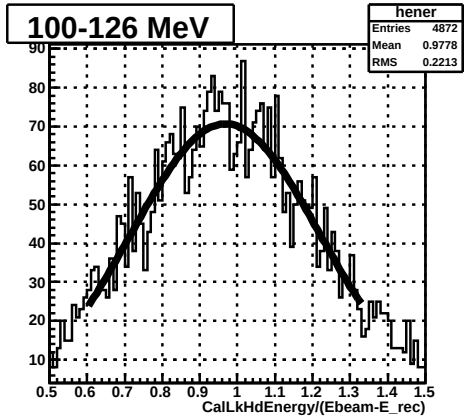


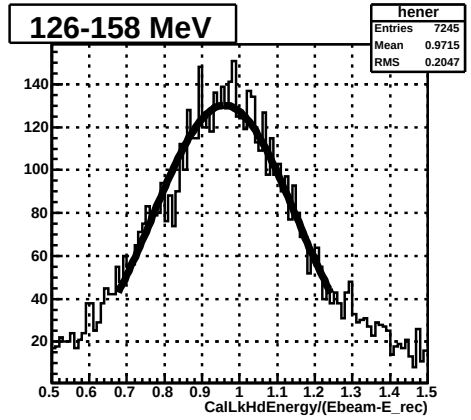


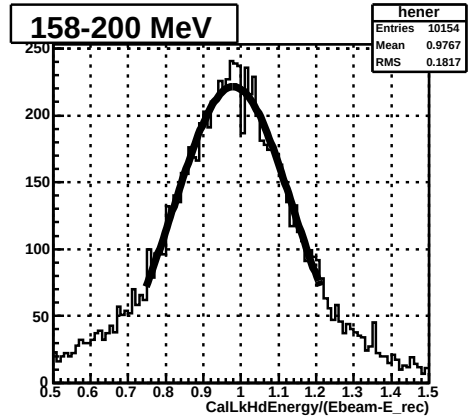


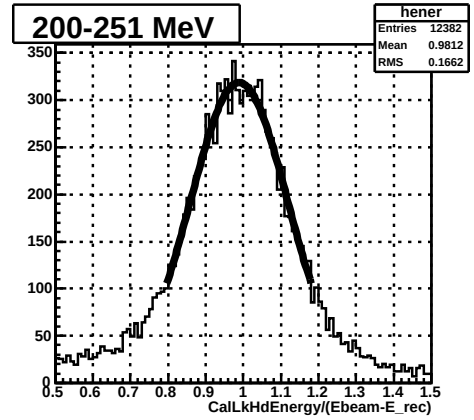


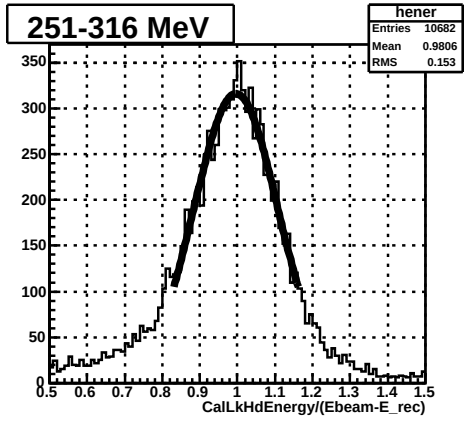
CalLkHdEnergy 0 deg

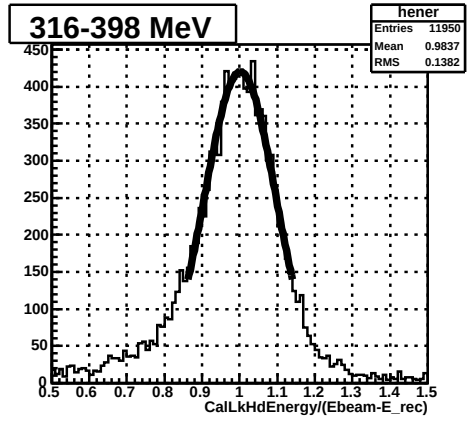


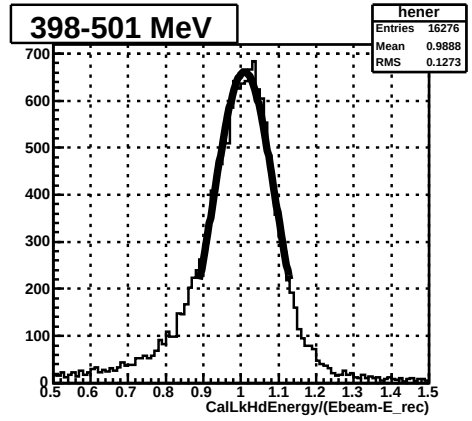


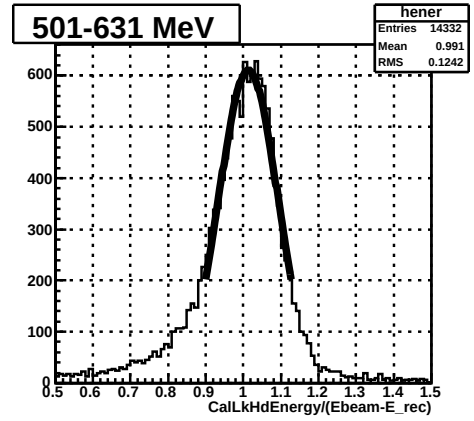


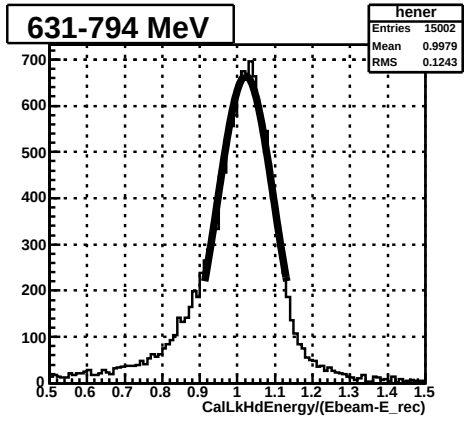


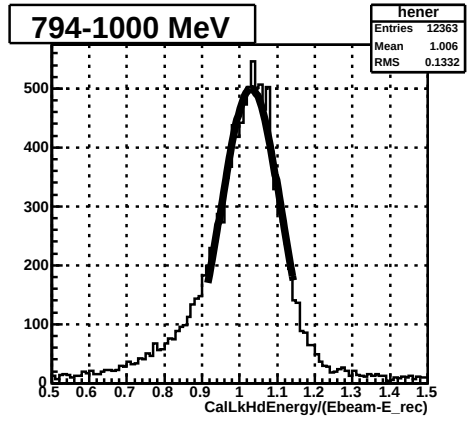


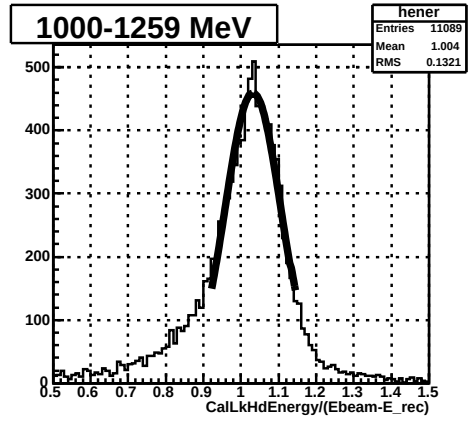


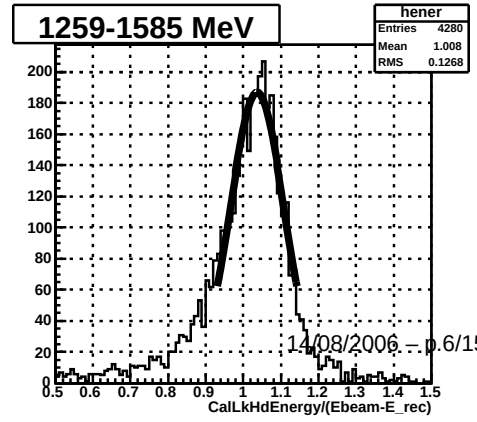






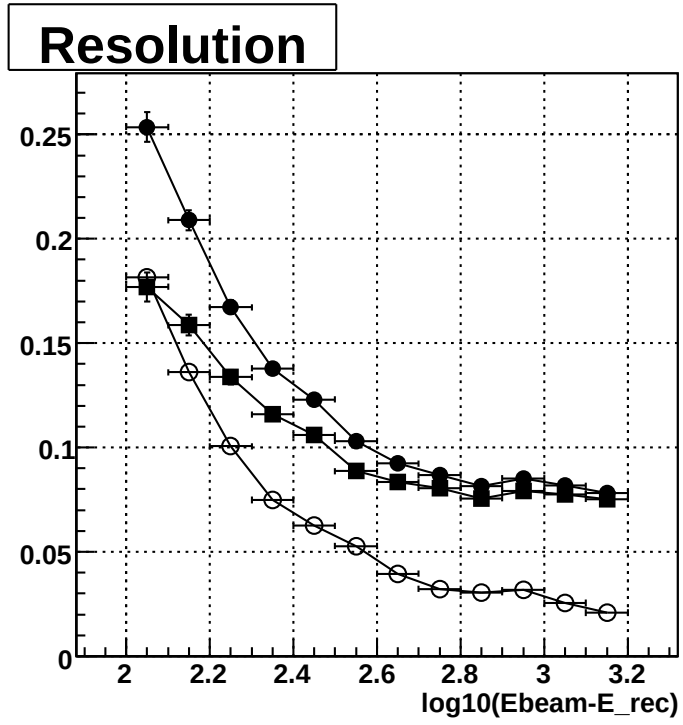


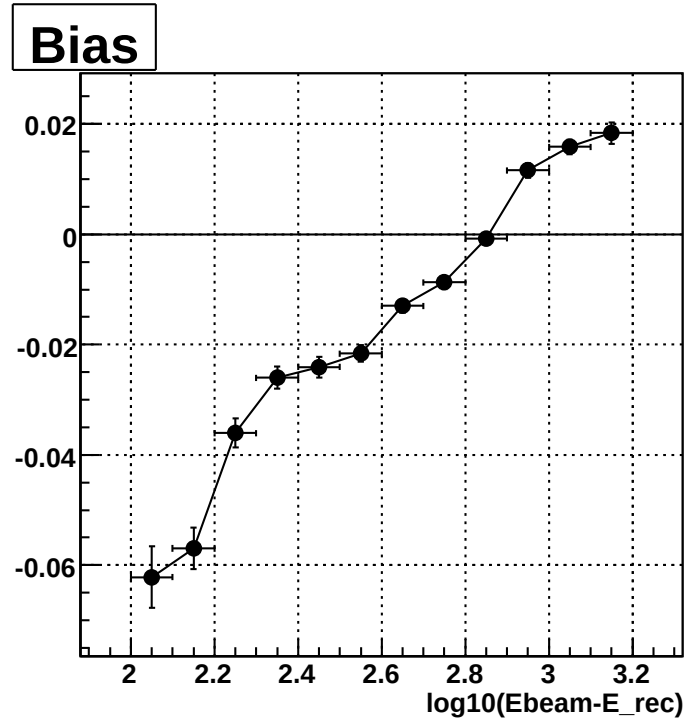




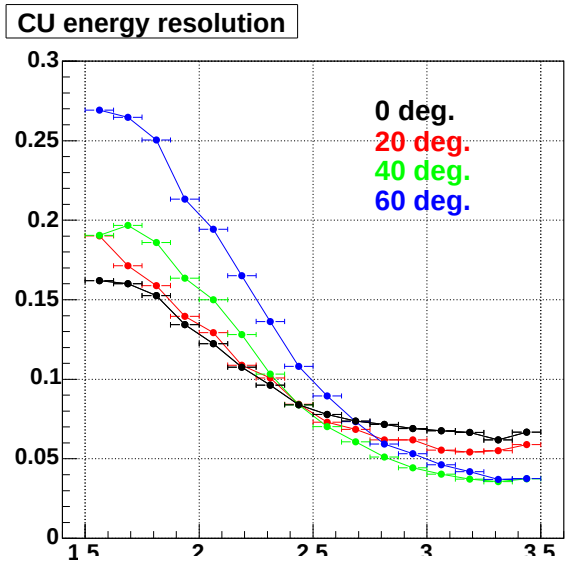
CU resolution correction

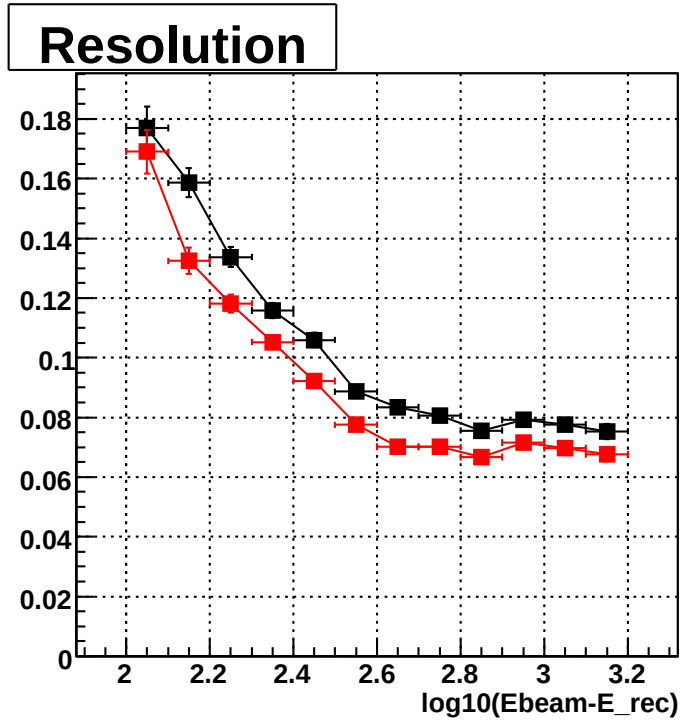
- empty circles : (beam+tagger) resolution
- black circles : EvtEnergyCorr RAW resolution
- black squares : EvtEnergyCorr corrected resolution

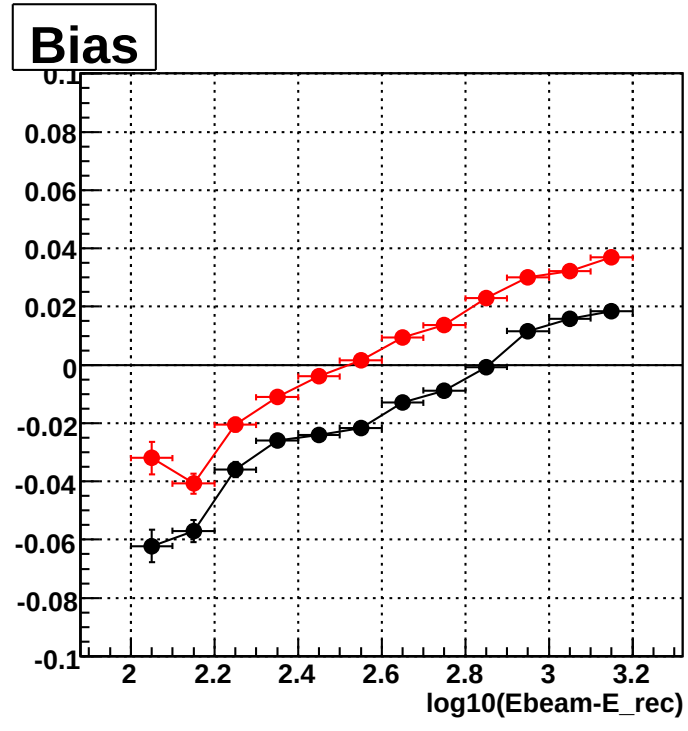




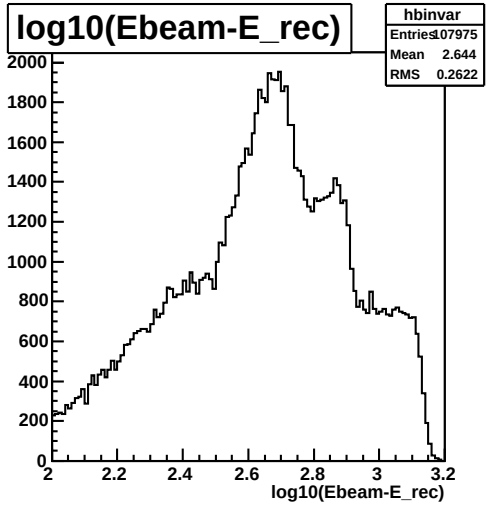
CU resolution 0 deg

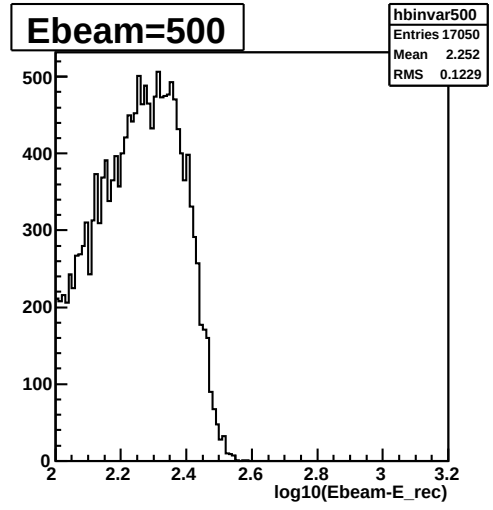


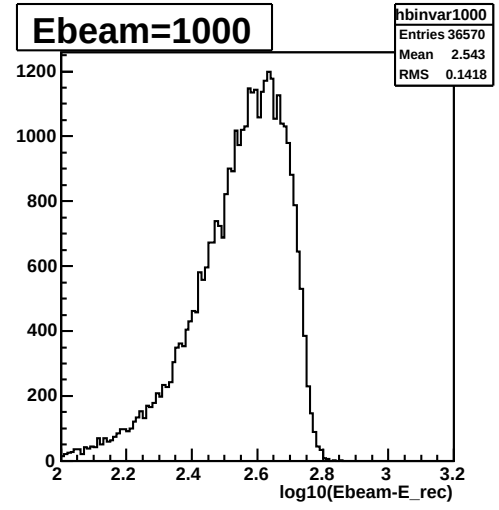


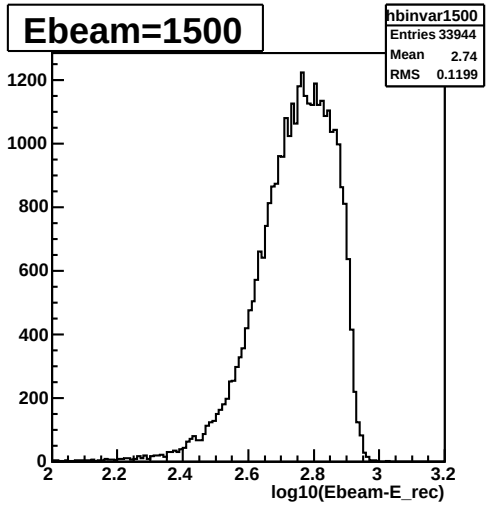


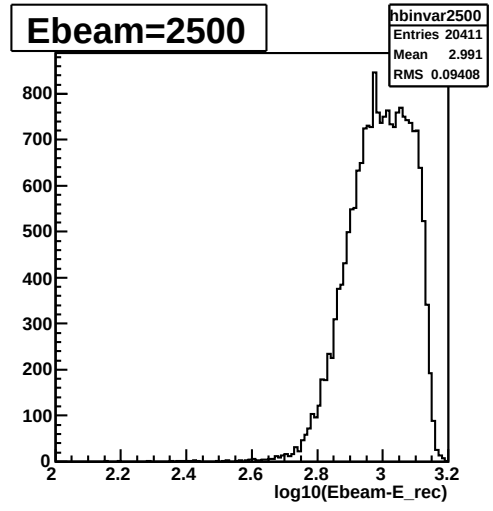
statistics 30 deg



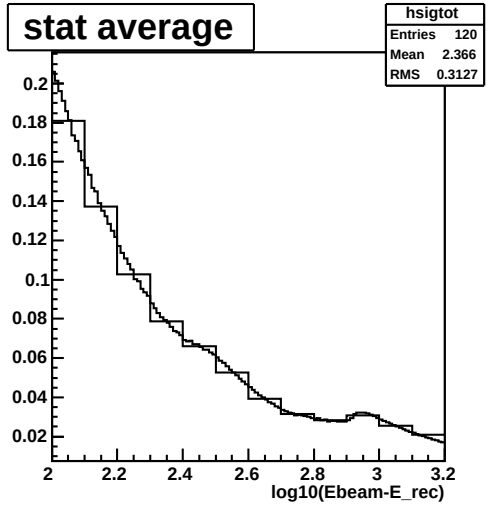


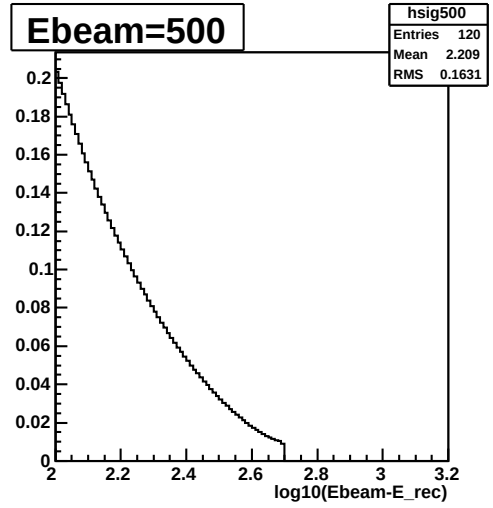


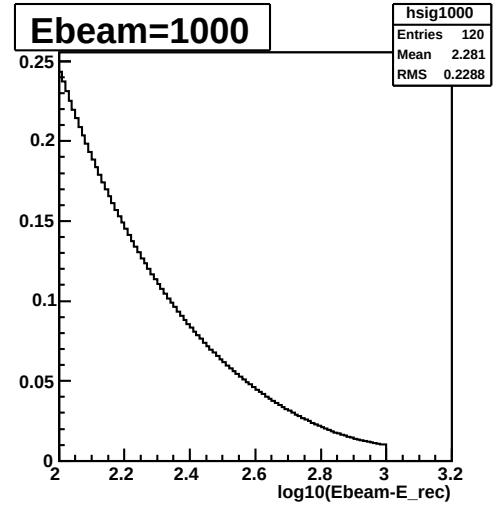


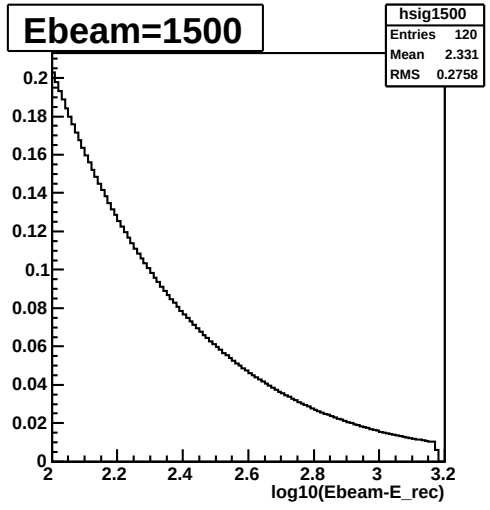


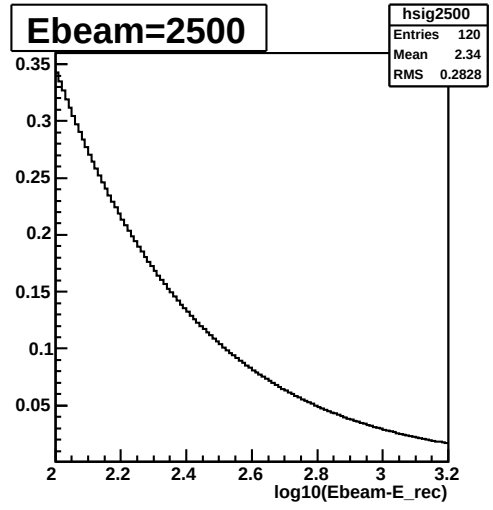
beam+tagger resolution 30 deg



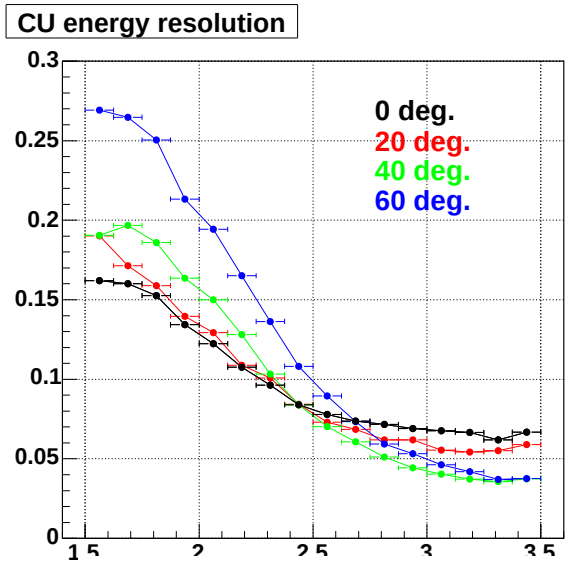


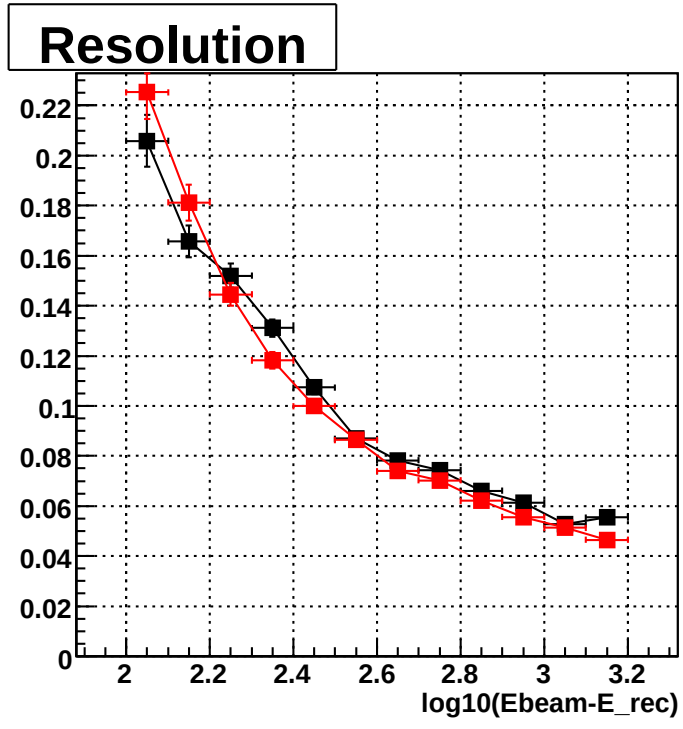


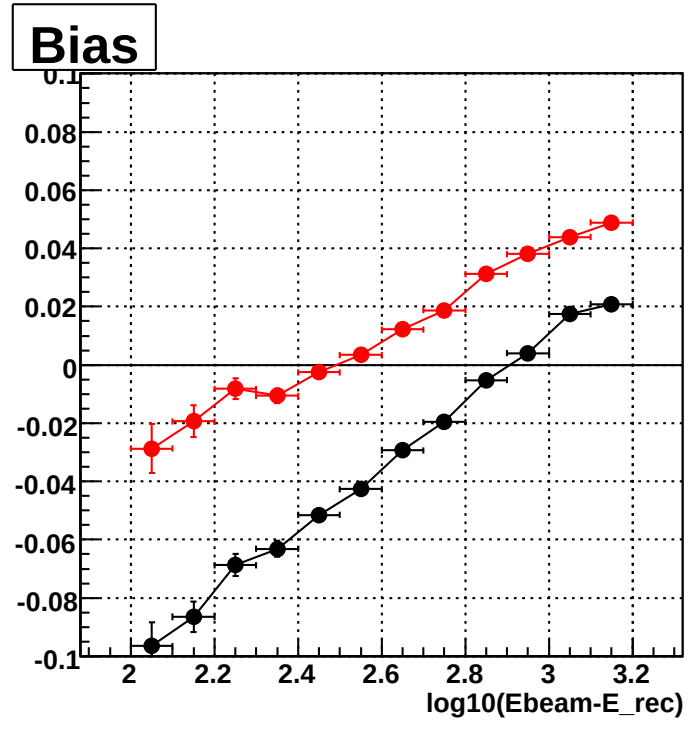




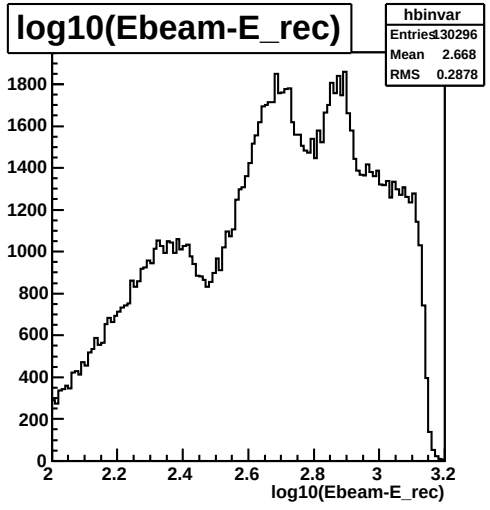
CU resolution 30 deg

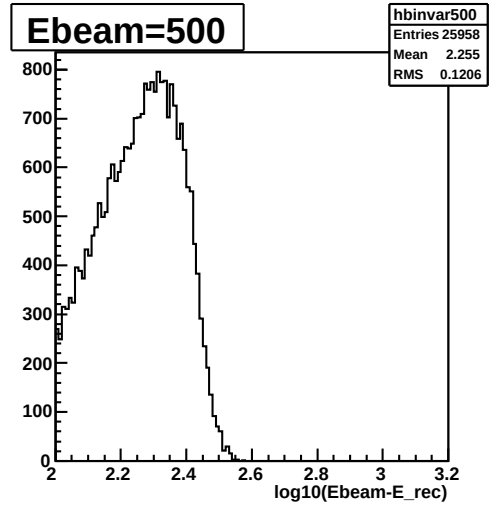


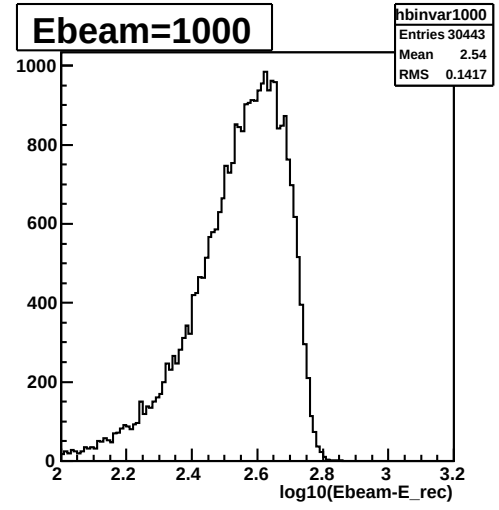


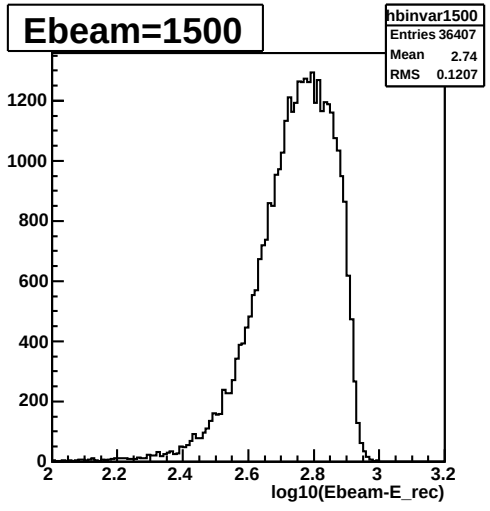


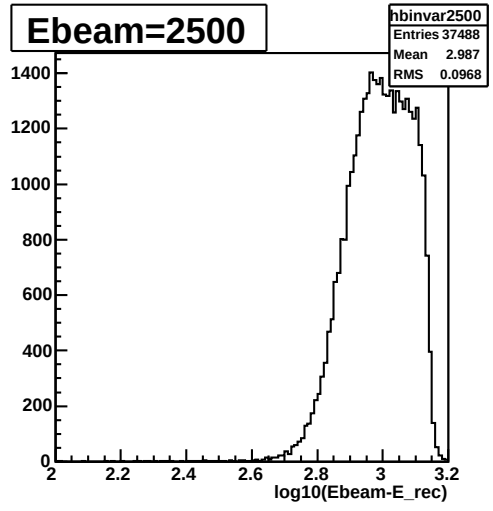
statistics 48 deg



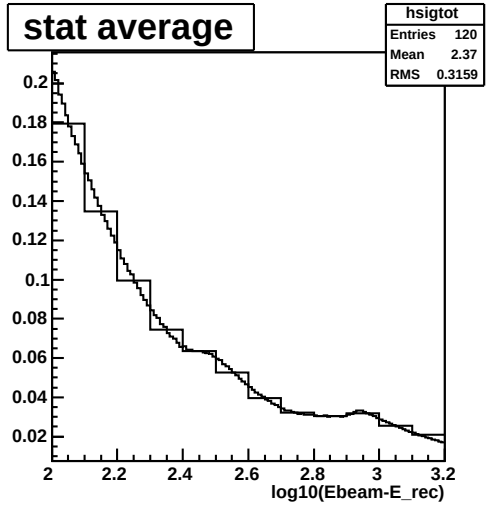


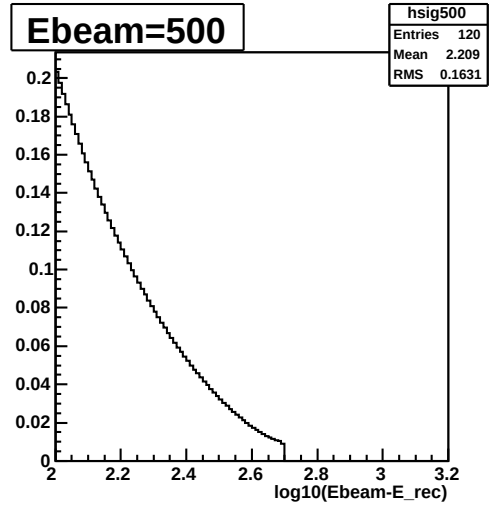


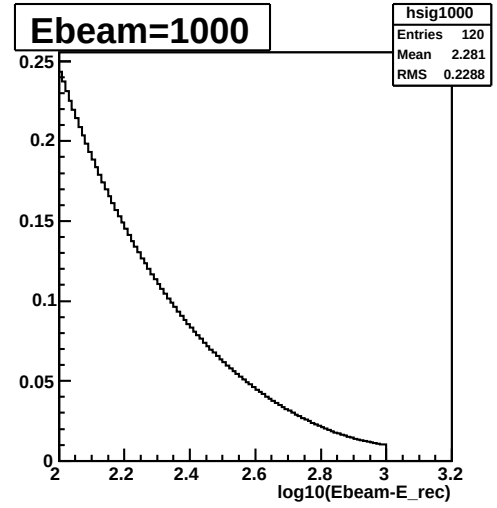


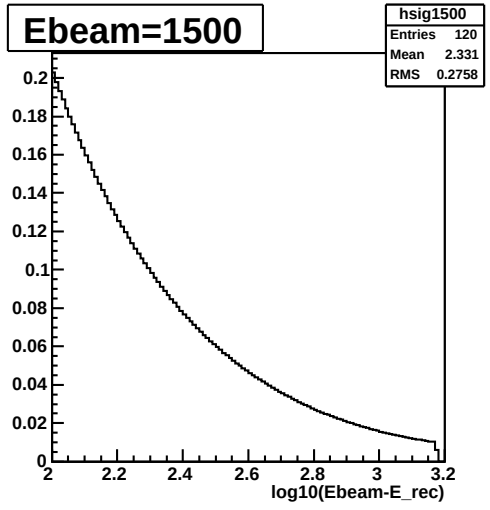


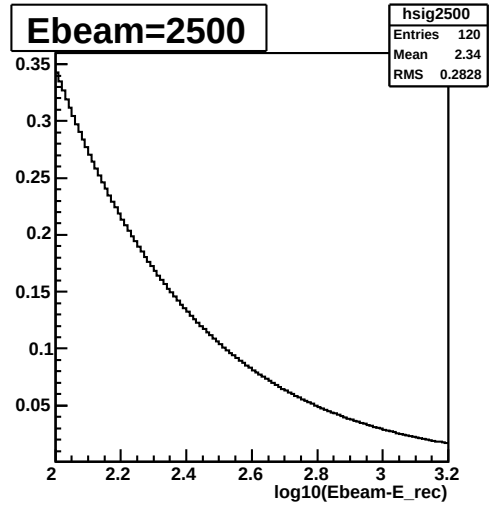
beam+tagger resolution 48 deg











CU resolution 48 deg