

Quick look at first PS data set

- data sets
- data/MC difference :
 - electron purity
 - pile-up
 - reconstruction
- last night runs

Data sets

- always 5 GeV electrons
- cross-shape calibration runs 700000700-700000750
BUT delay settings not optimized (2-3% effect ?)
- run 700000811 (50k evts) with optimal delay settings (?)
BUT second arm of the tagger in the beam line and Al protections on all silicon chambers : more material in front of the CU than in MC
- scans in X at 0,10,20,30,45,60 degrees runs 700000916-700000940
with optimal delay settings (?)
AND no Al protections on the silicon chambers and the second arm of the tagger NOT in the beam line

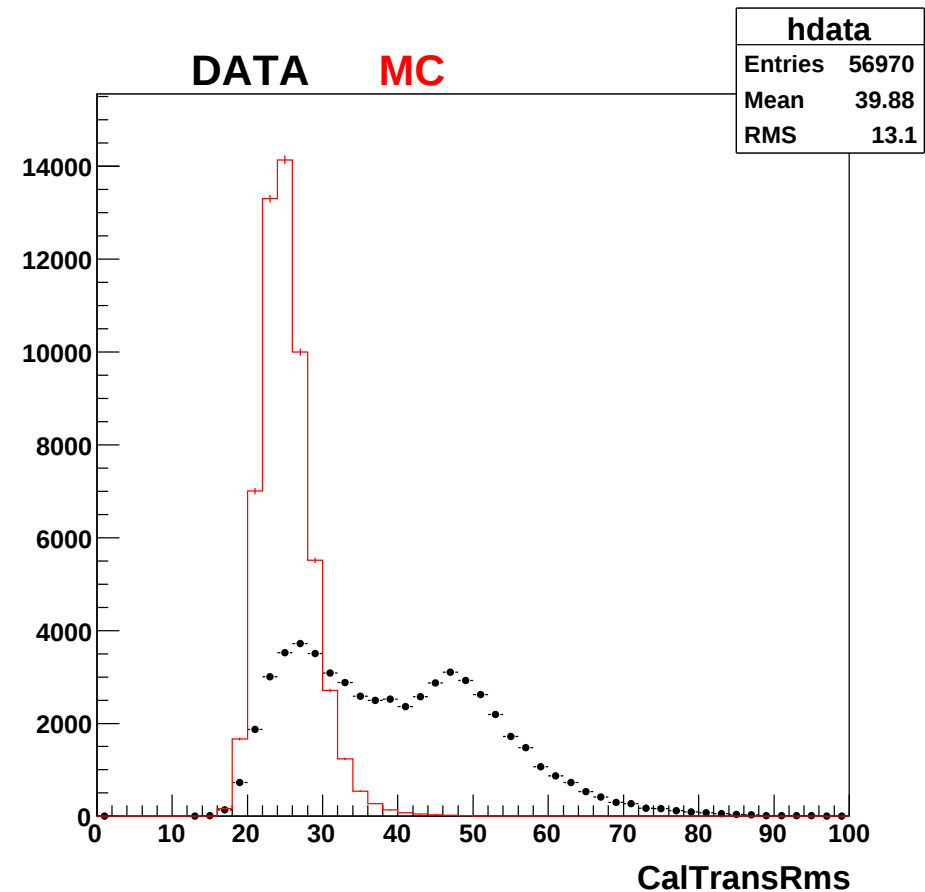
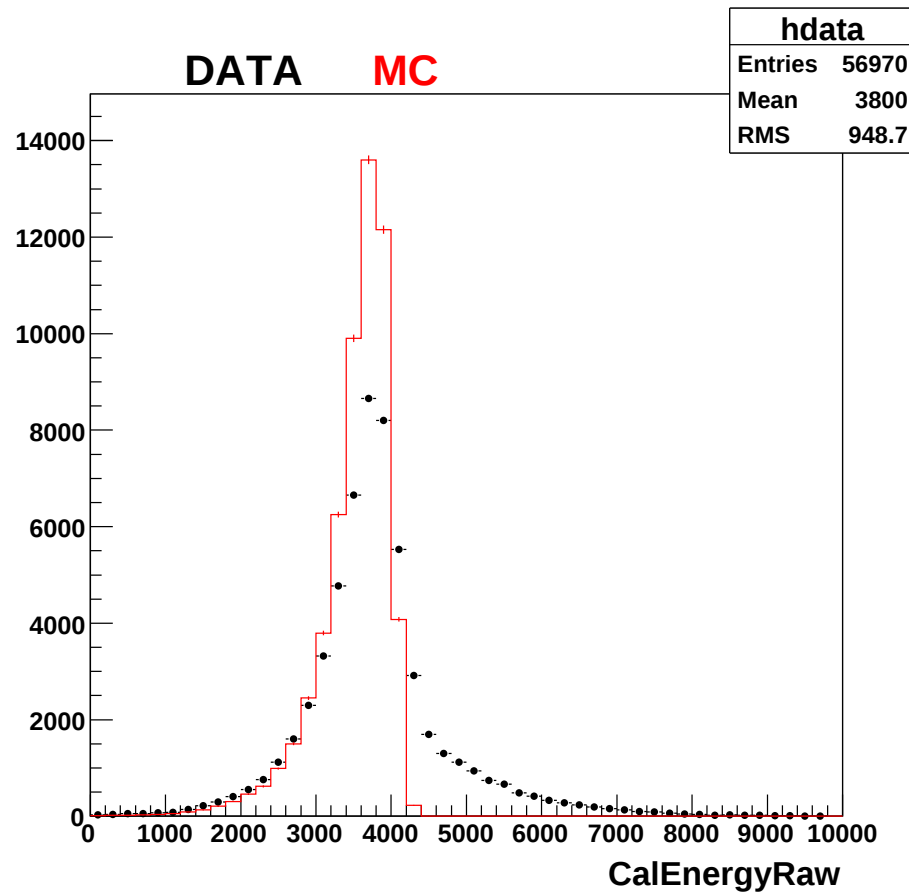
Data-Mc comparison

5 GeV electrons in the center of tower 2 at normal incidence

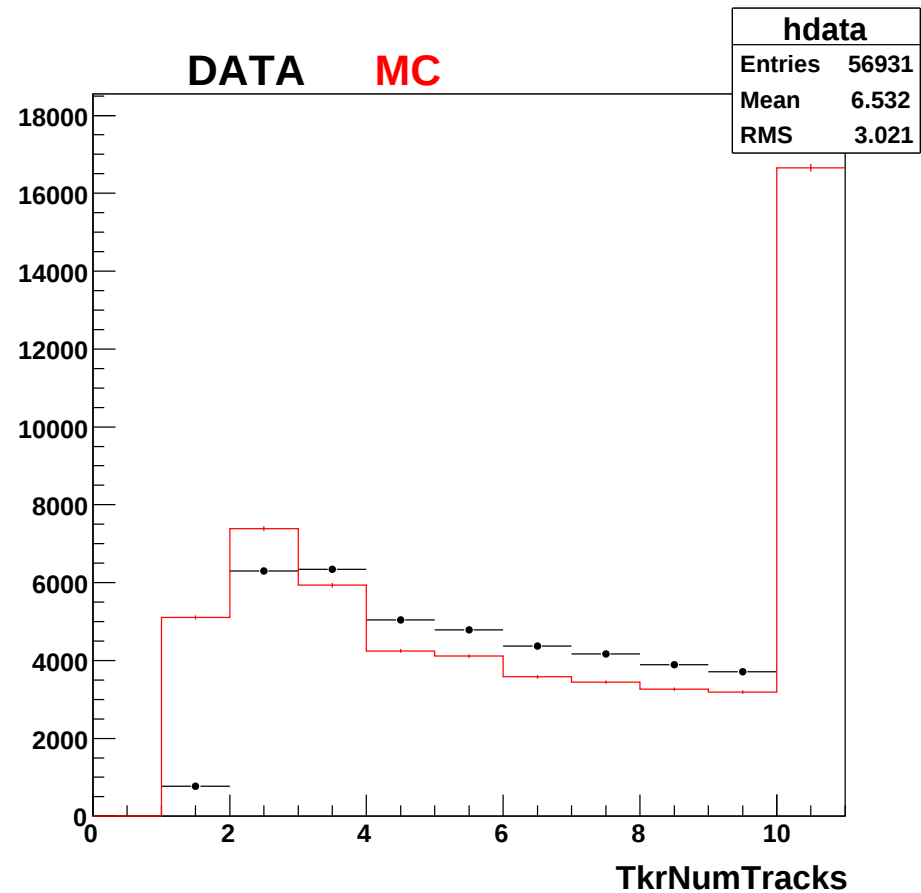
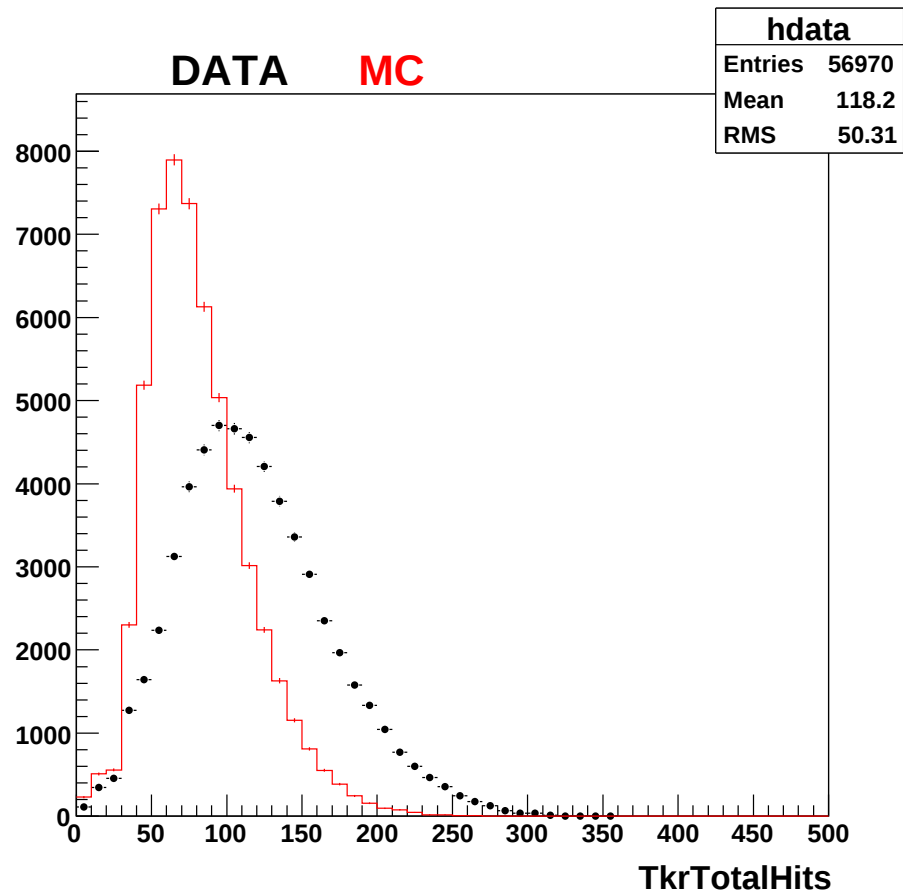
DATA : 700000811

MC BeamTest-0122-merit.root

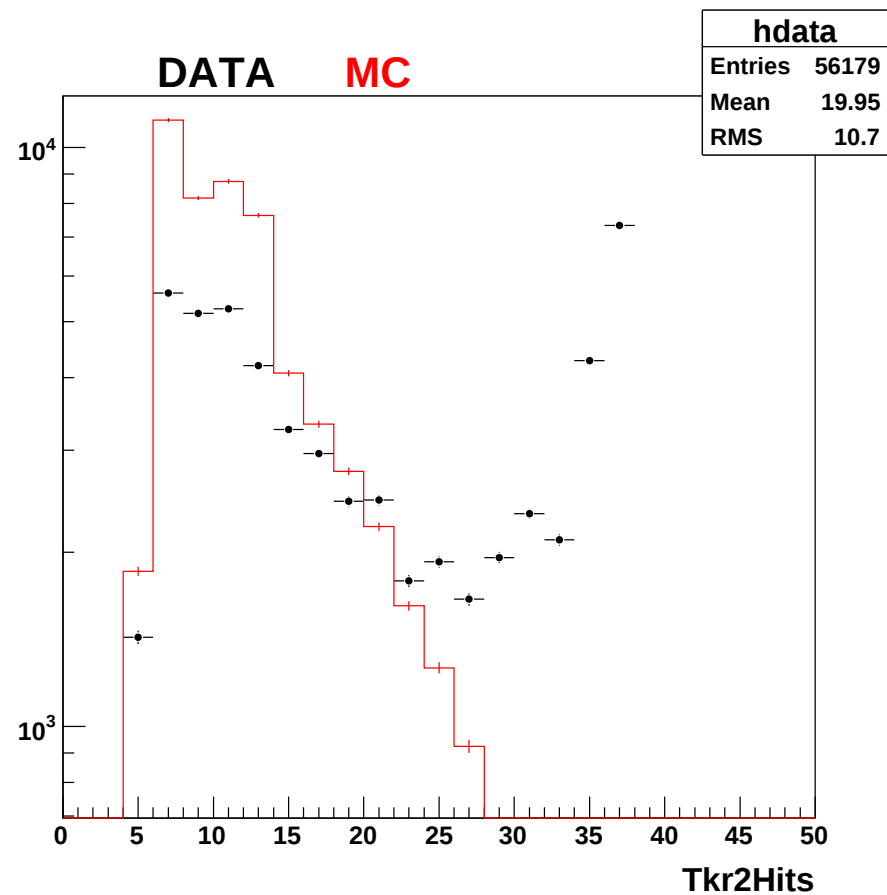
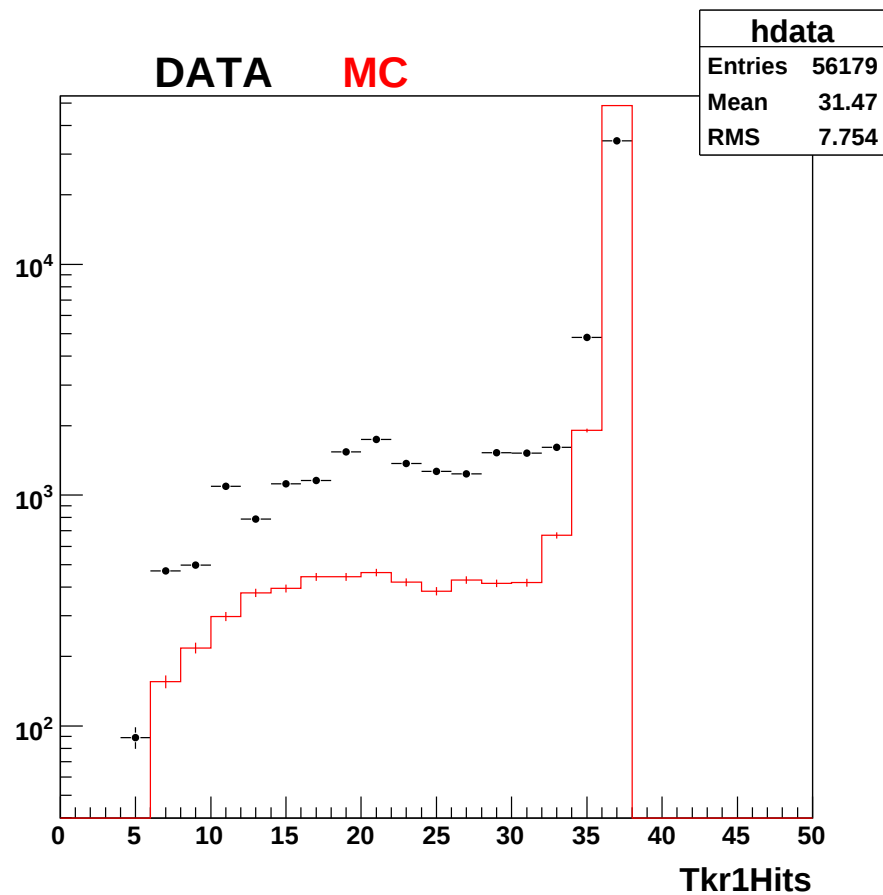
CalEnergyRaw and CalTransRms



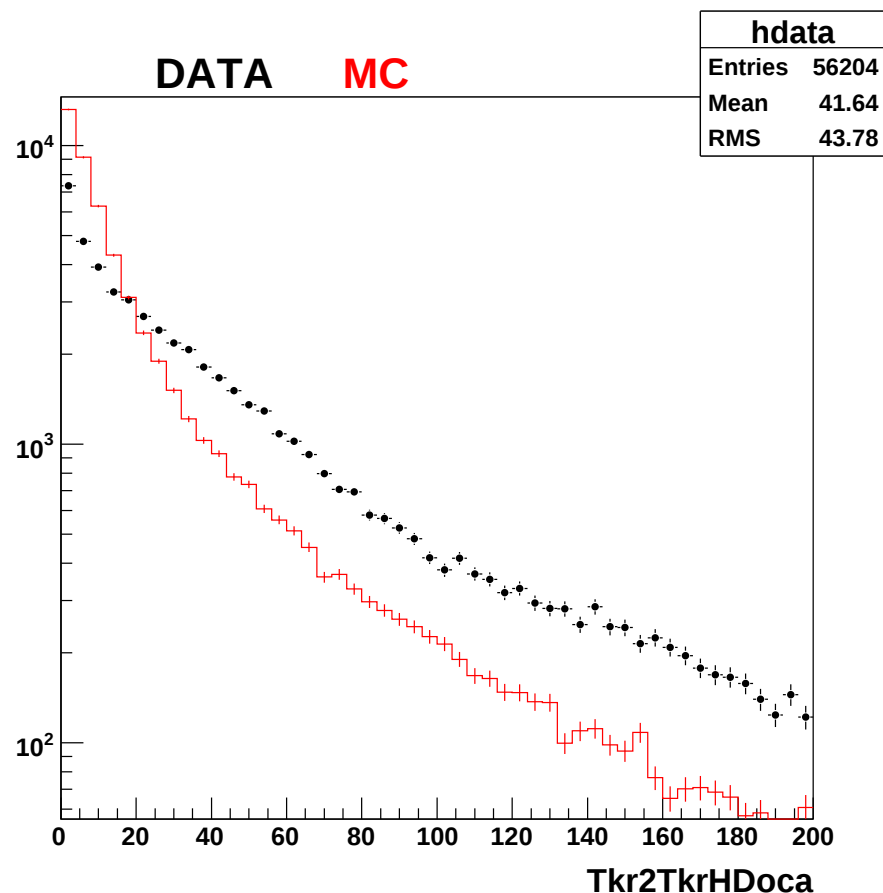
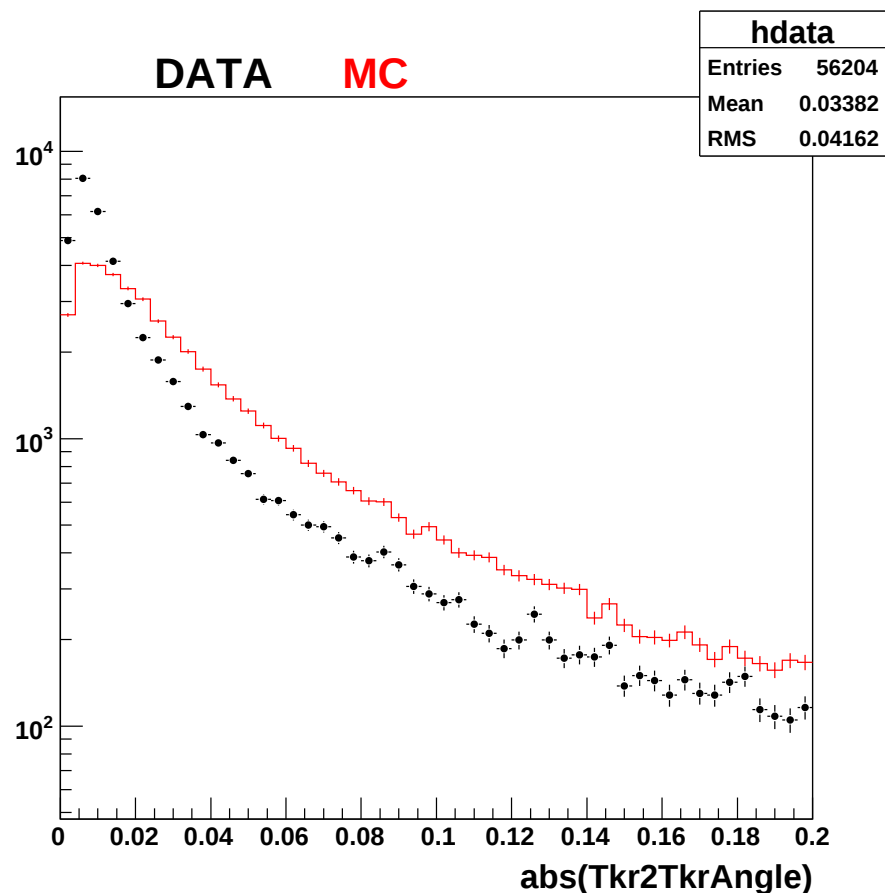
TkrTotalHits and TkrNumtracks



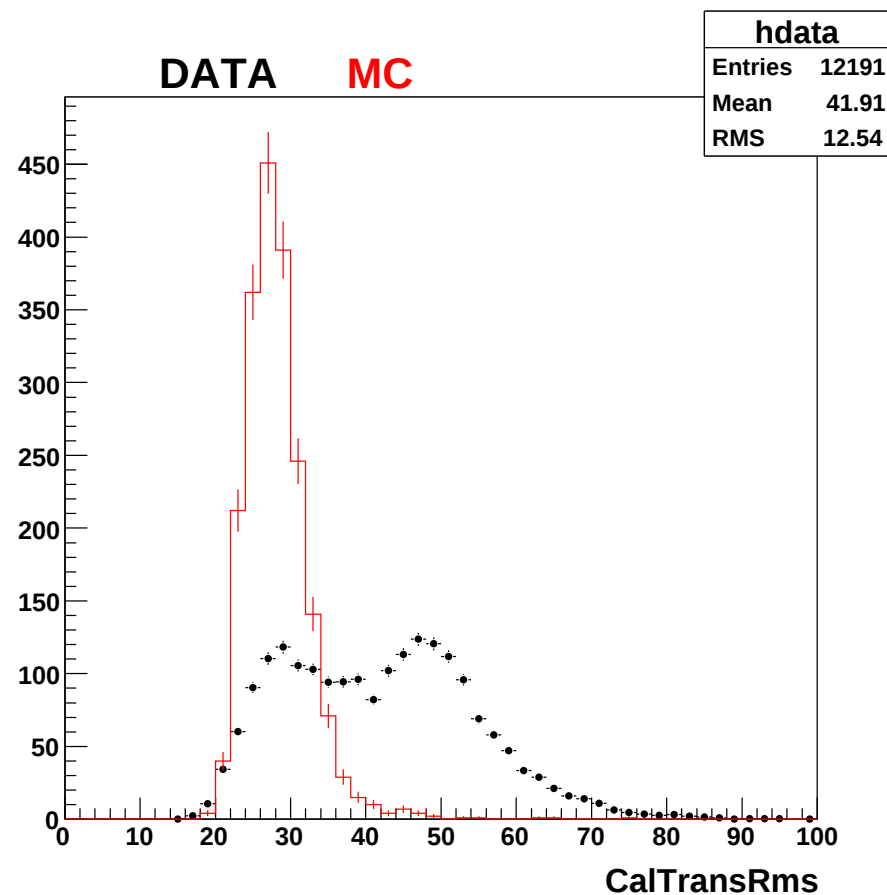
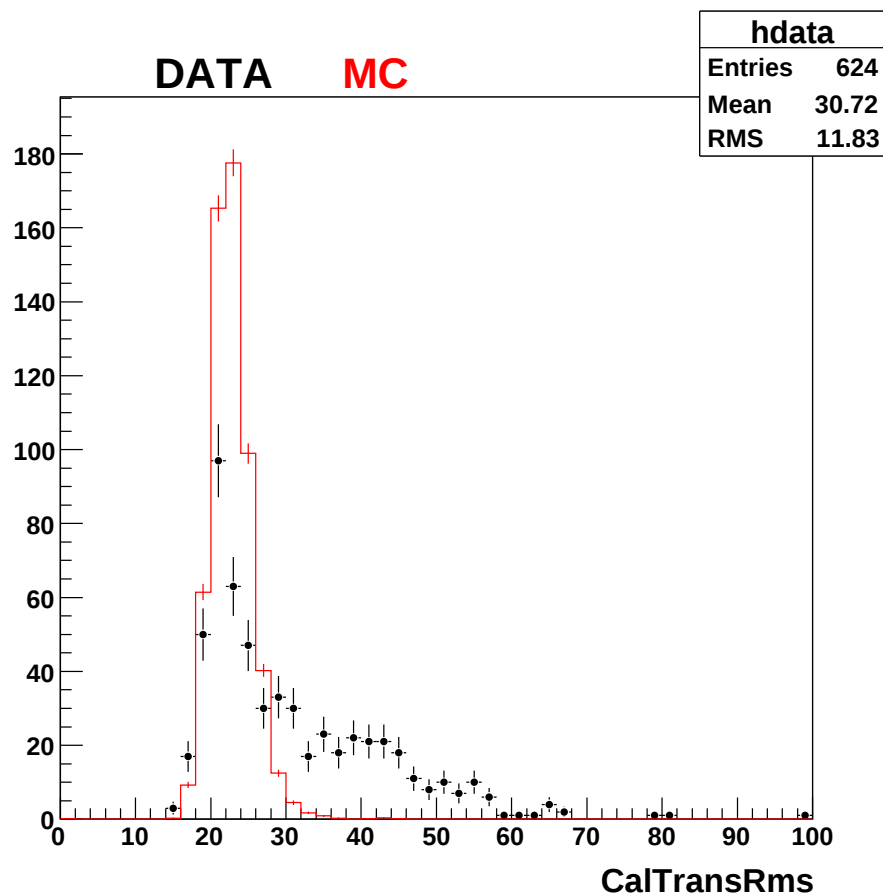
Tkr1Hits and Tkr2Hits



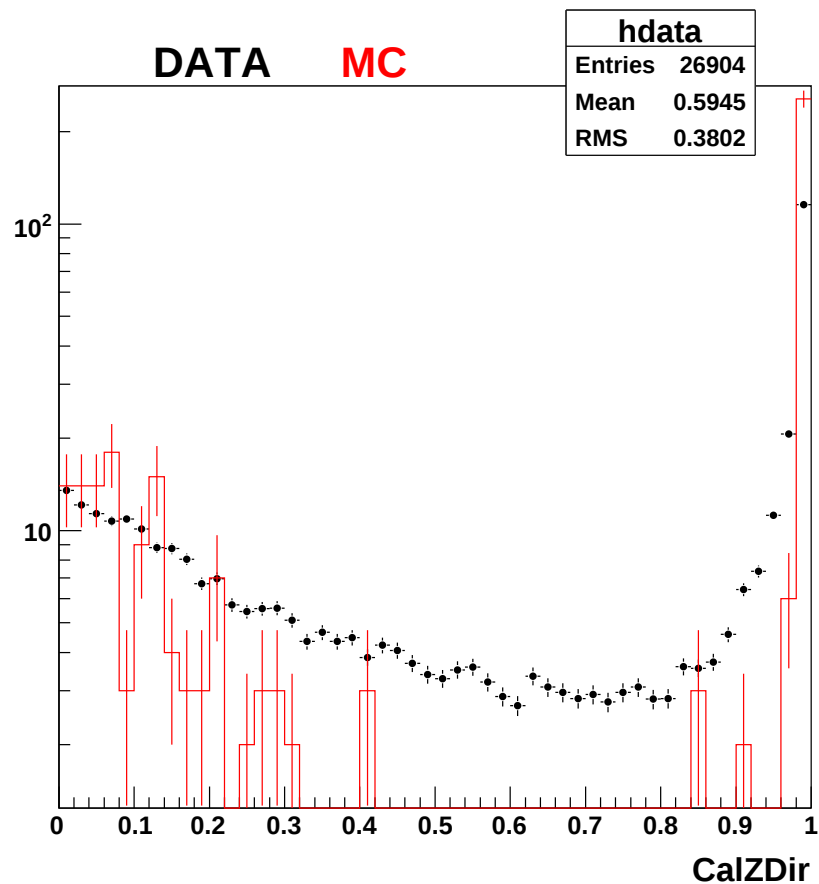
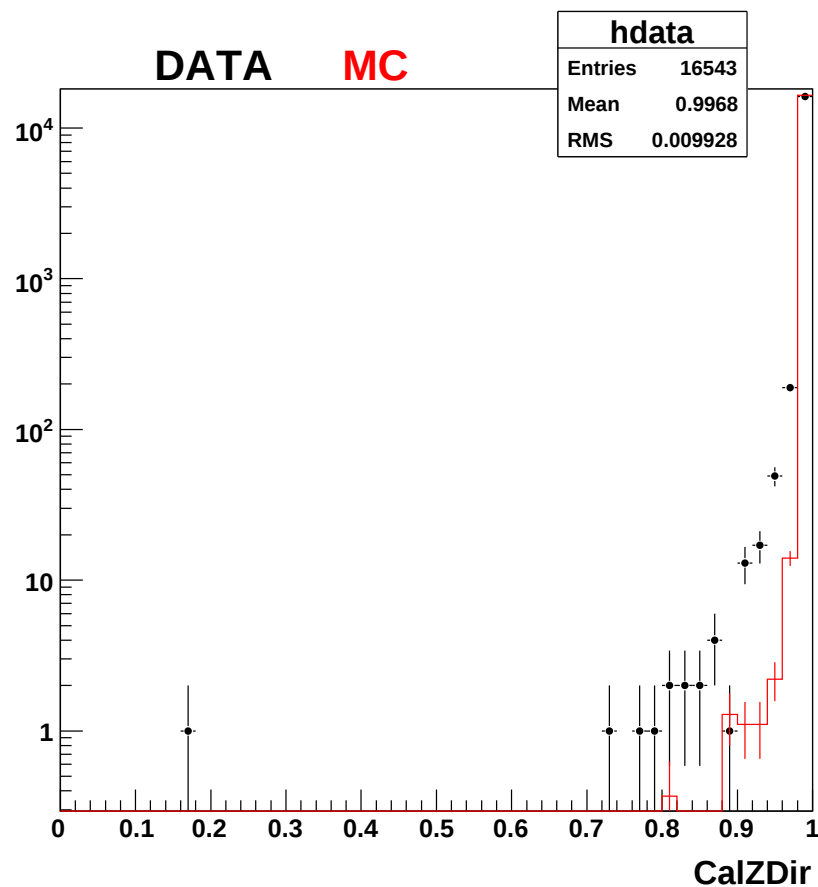
absTkr2TkrAngle and Tkr2TkrHDoca



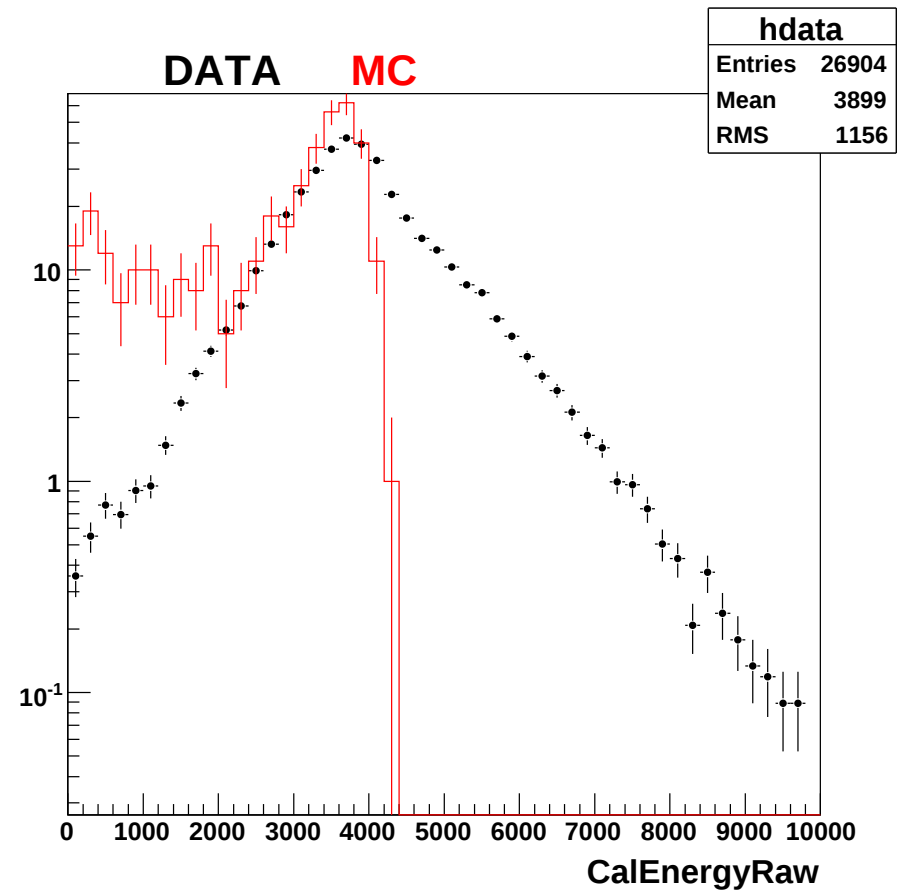
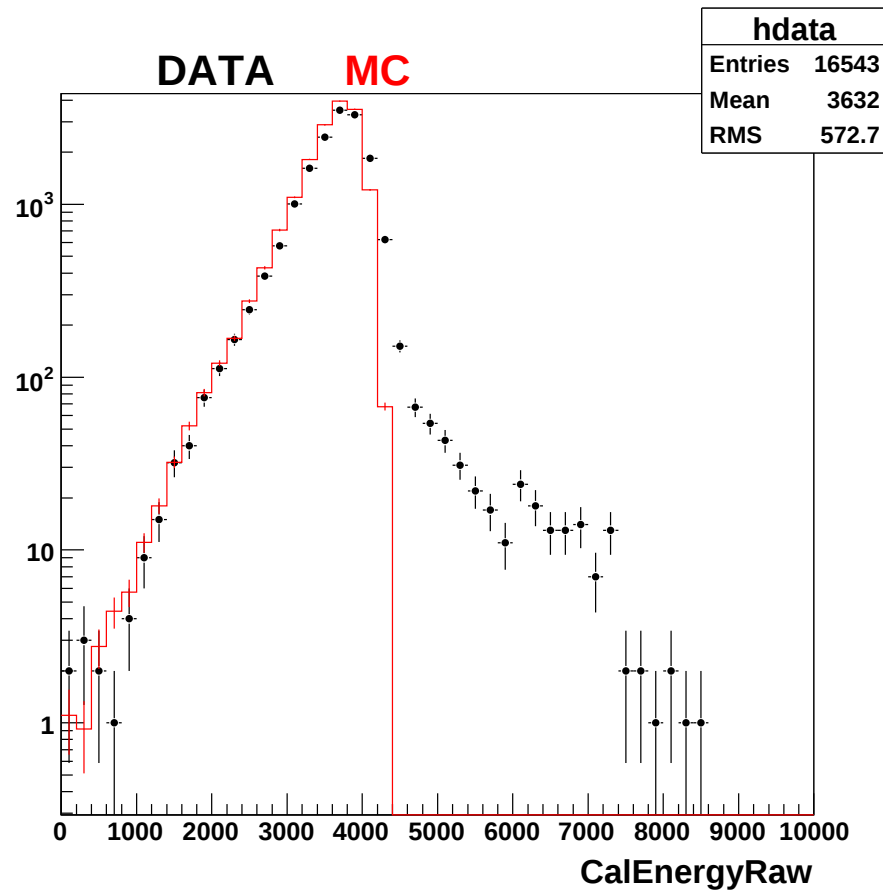
one Track and two tracks



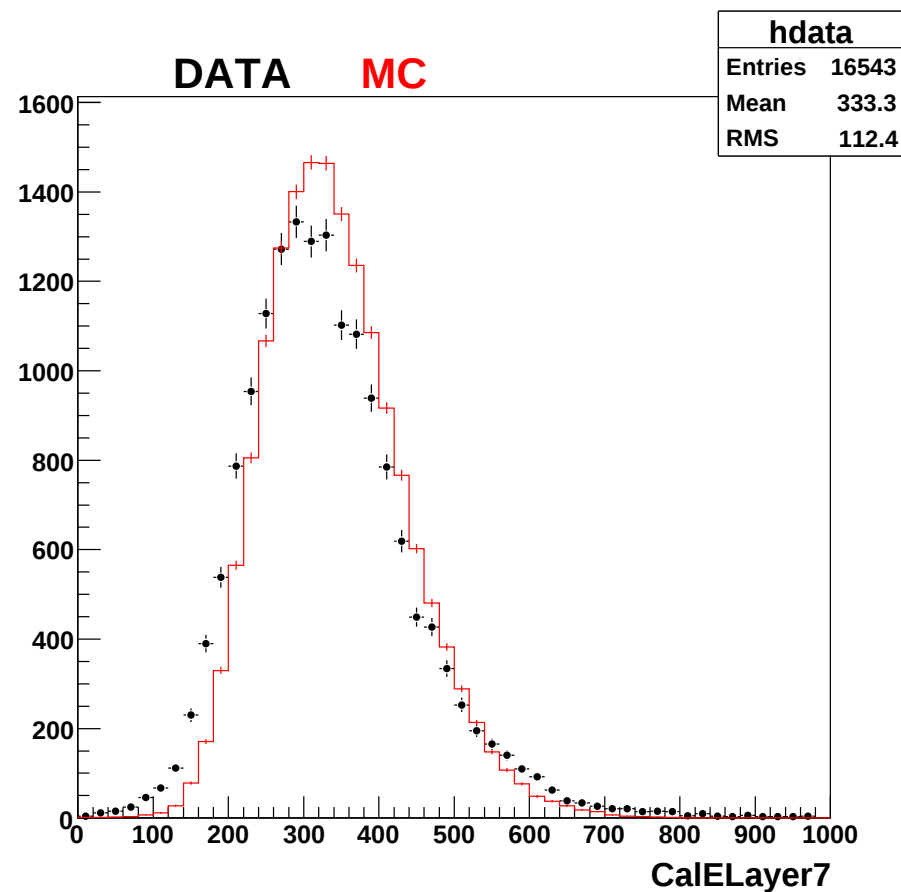
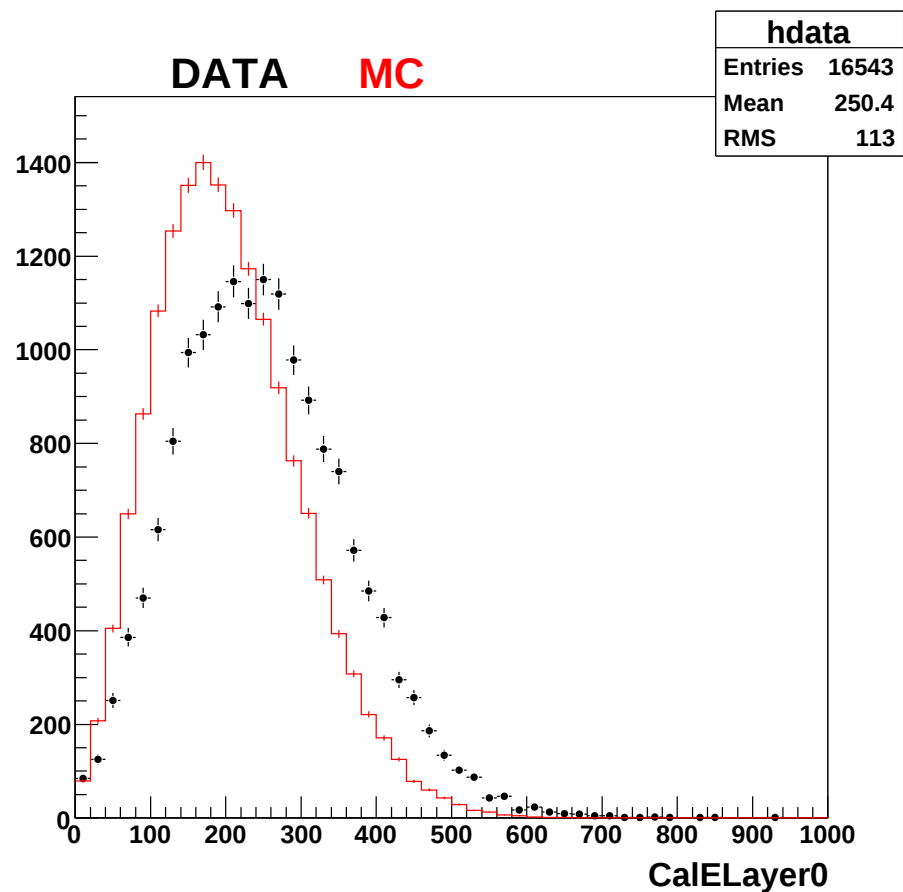
CalZDir small and large CaltransRms



CalEnergyRaw small and large CaltransRn



CalELayer0 and CalELayer7

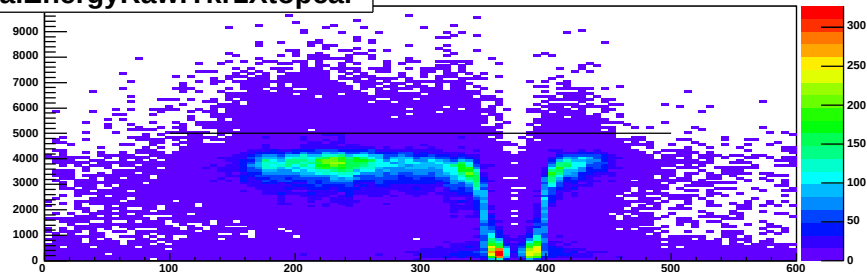


Data-Mc comparison

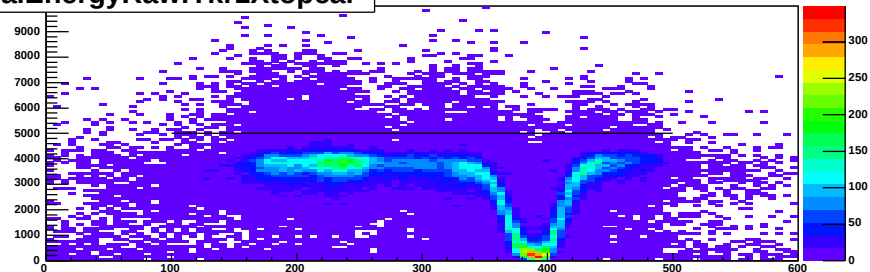
- runs 700000916-700000940 : average rate around 20 Hz and less material in the beam line.
look at the difference with 700000811
- independently of pion pile-up : check how we can have more than 6-7 GeV
compatible with electron pile-up ?
- the moment analysis of the cal cluster gives strange results
check calibration ?

Scan 0 and 10 deg

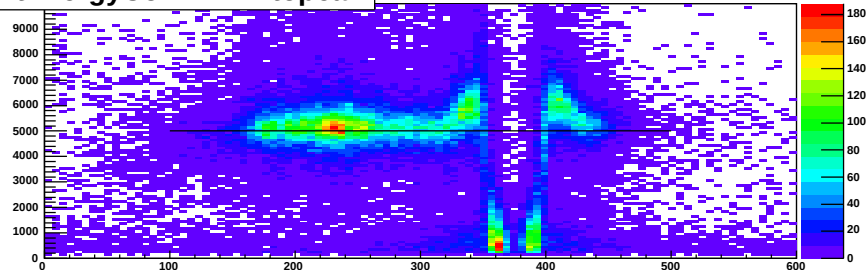
CalEnergyRaw:Tkr1Xtopcal



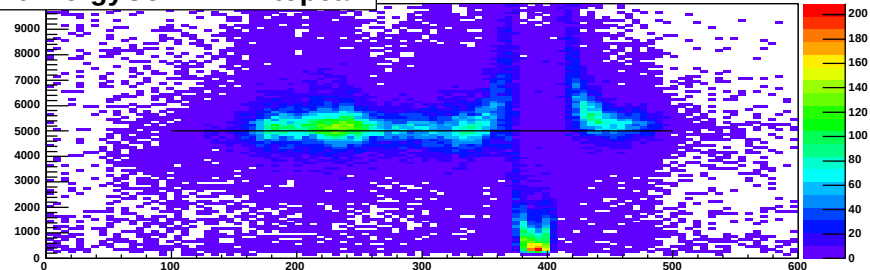
CalEnergyRaw:Tkr1Xtopcal



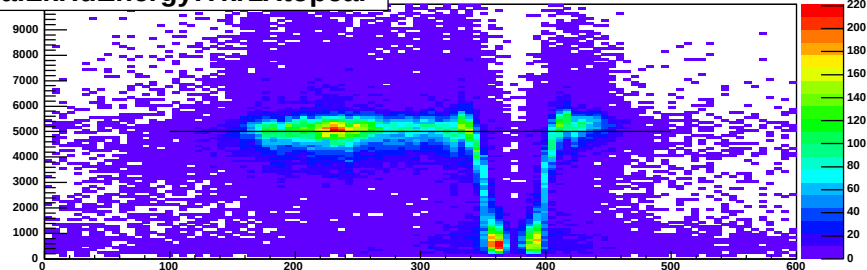
EvtEnergyCorr:Tkr1Xtopcal



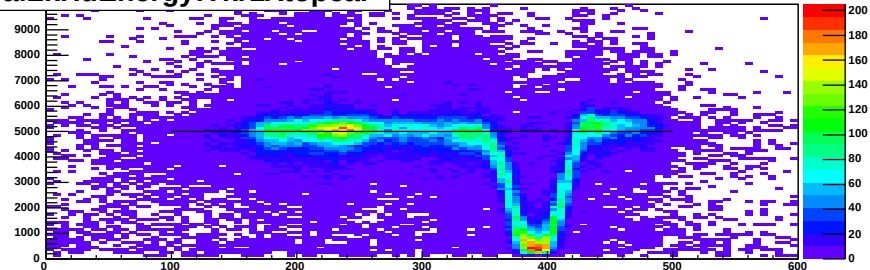
EvtEnergyCorr:Tkr1Xtopcal



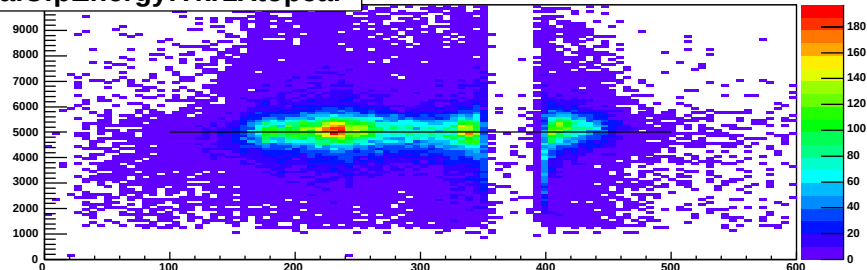
CalLkHdEnergy:Tkr1Xtopcal



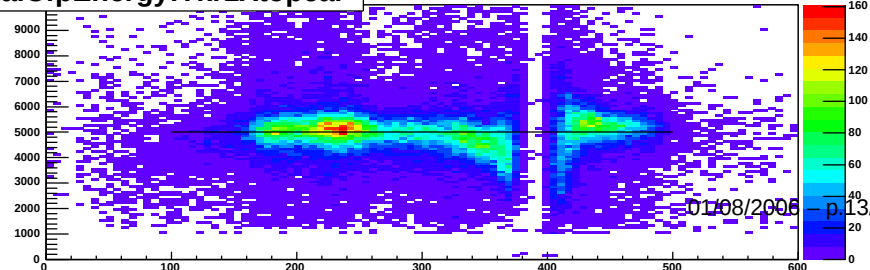
CalLkHdEnergy:Tkr1Xtopcal



CalCfpEnergy:Tkr1Xtopcal

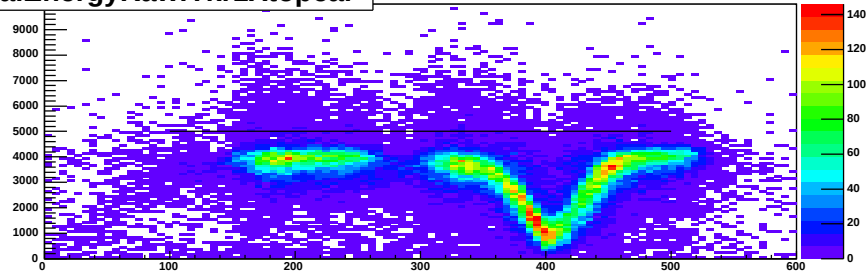


CalCfpEnergy:Tkr1Xtopcal

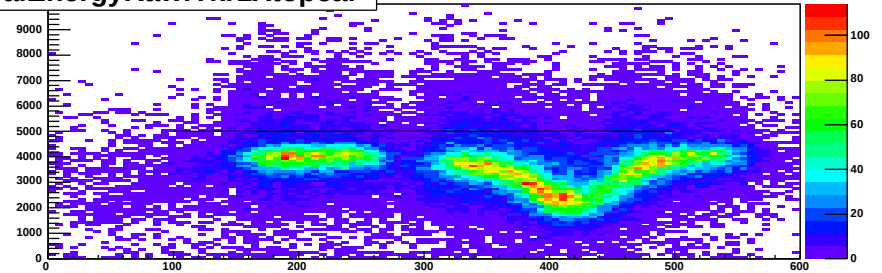


Scan 20 and 20 deg

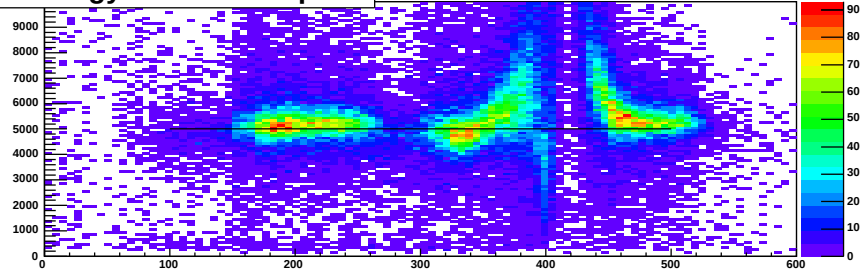
CalEnergyRaw:Tkr1Xtopcal



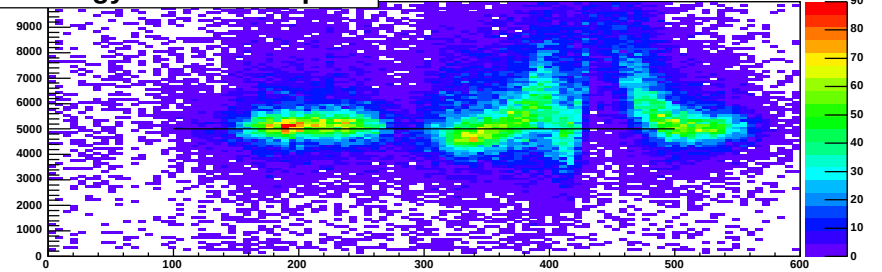
CalEnergyRaw:Tkr1Xtopcal



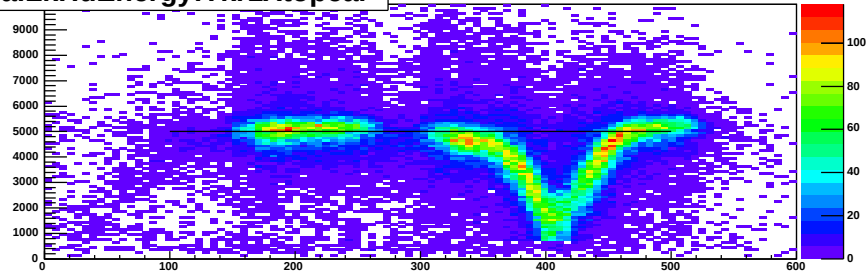
EvtEnergyCorr:Tkr1Xtopcal



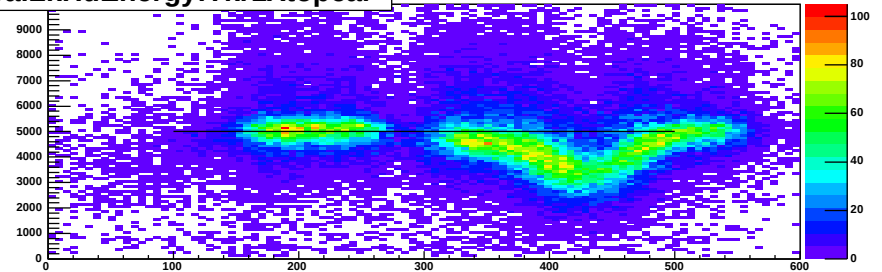
EvtEnergyCorr:Tkr1Xtopcal



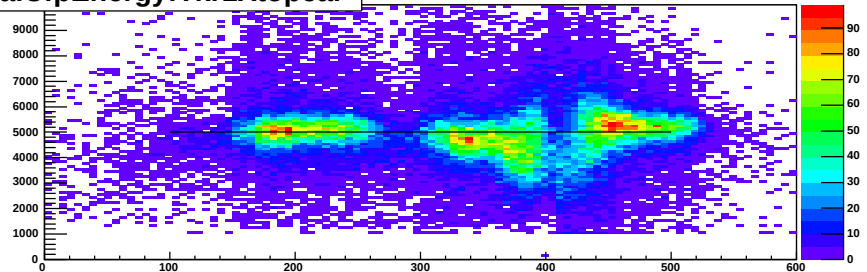
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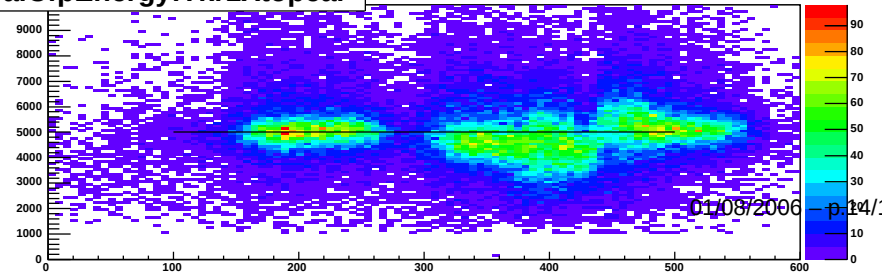
CalLkHdEnergy:Tkr1Xtopcal



CalCfpEnergy:Tkr1Xtopcal

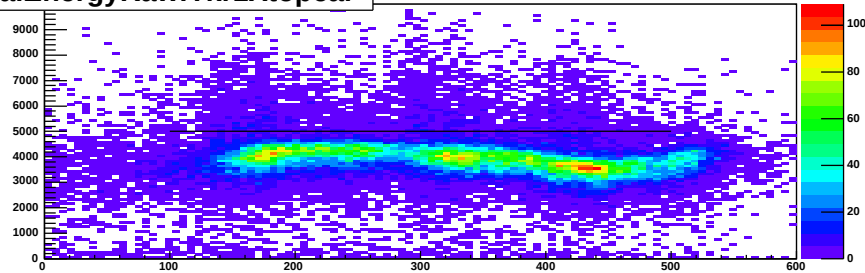


CalCfpEnergy:Tkr1Xtopcal

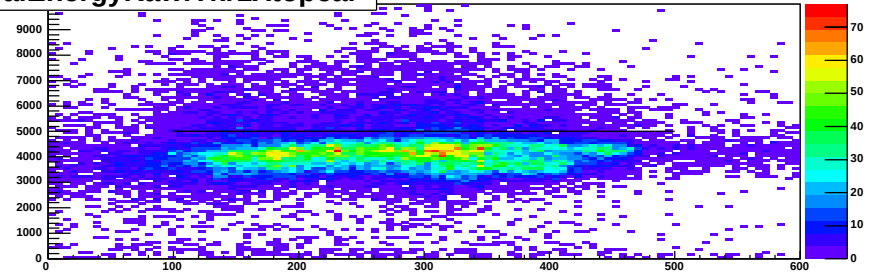


Scan 45 and 60 deg

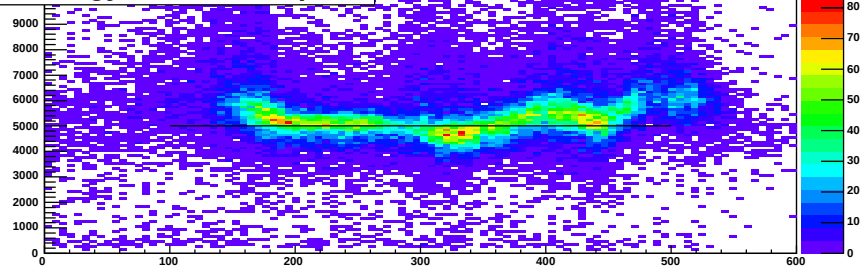
CalEnergyRaw:Tkr1Xtopcal



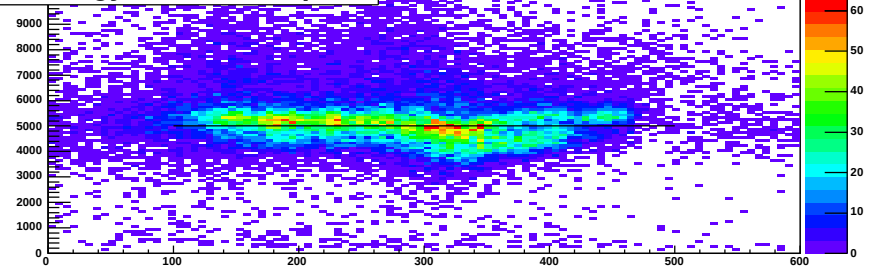
CalEnergyRaw:Tkr1Xtopcal



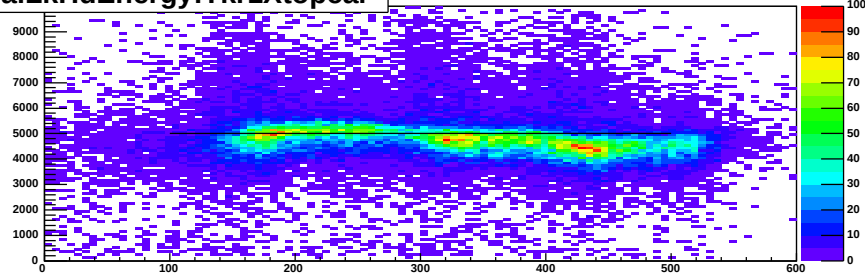
EvtEnergyCorr:Tkr1Xtopcal



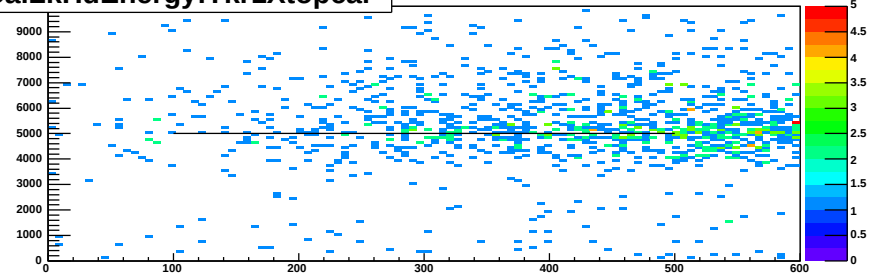
EvtEnergyCorr:Tkr1Xtopcal



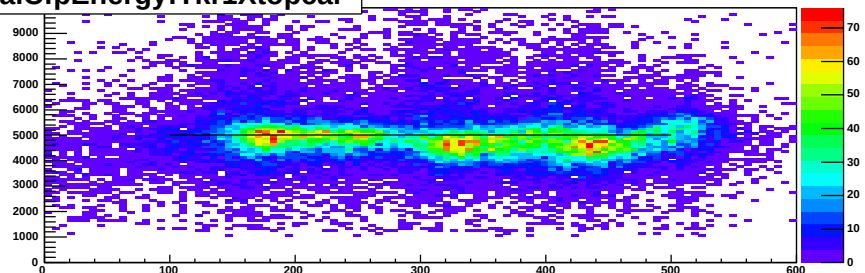
CalLkHdEnergy:Tkr1Xtopcal



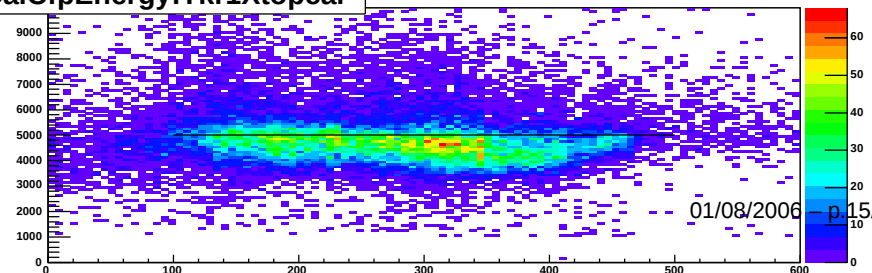
CalLkHdEnergy:Tkr1Xtopcal



CalCfpEnergy:Tkr1Xtopcal



CalCfpEnergy:Tkr1Xtopcal



Conclusions

Many runs to look at !!!