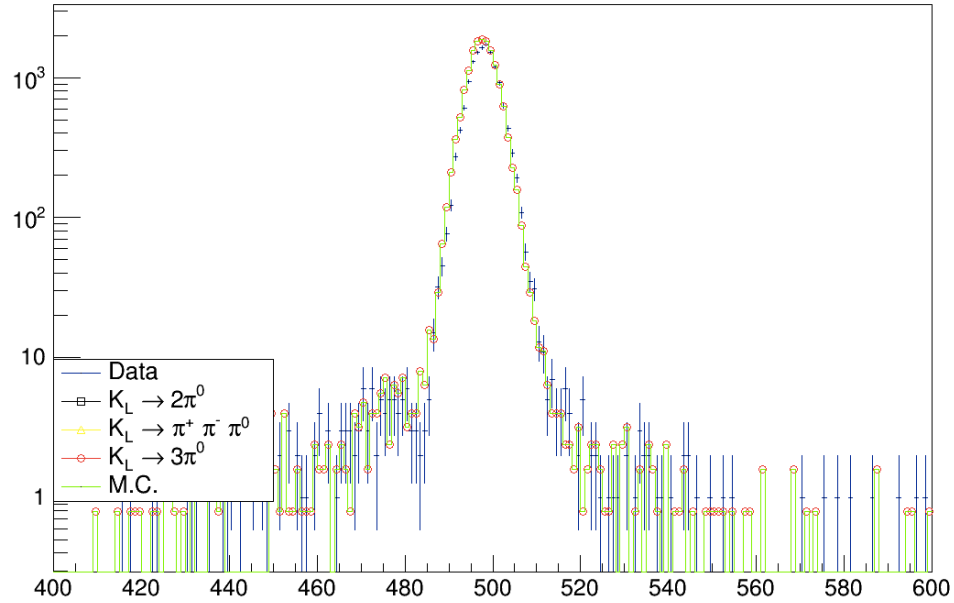
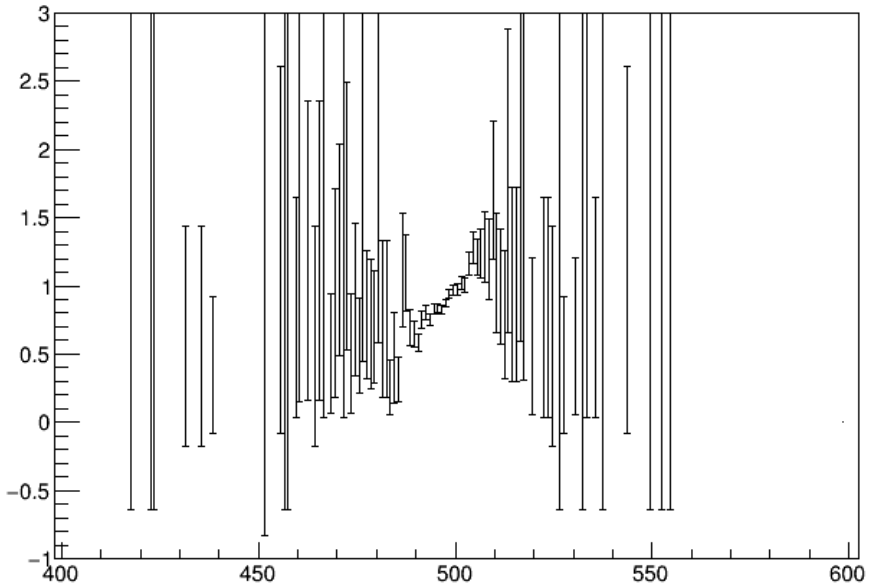
Report_171227

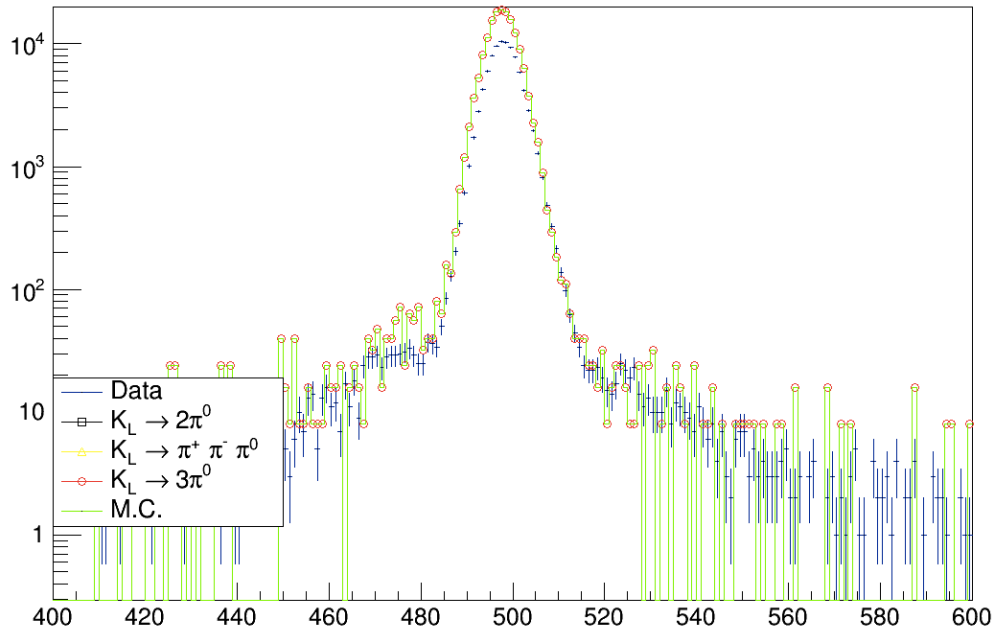
KL3pi0 Mass distribution

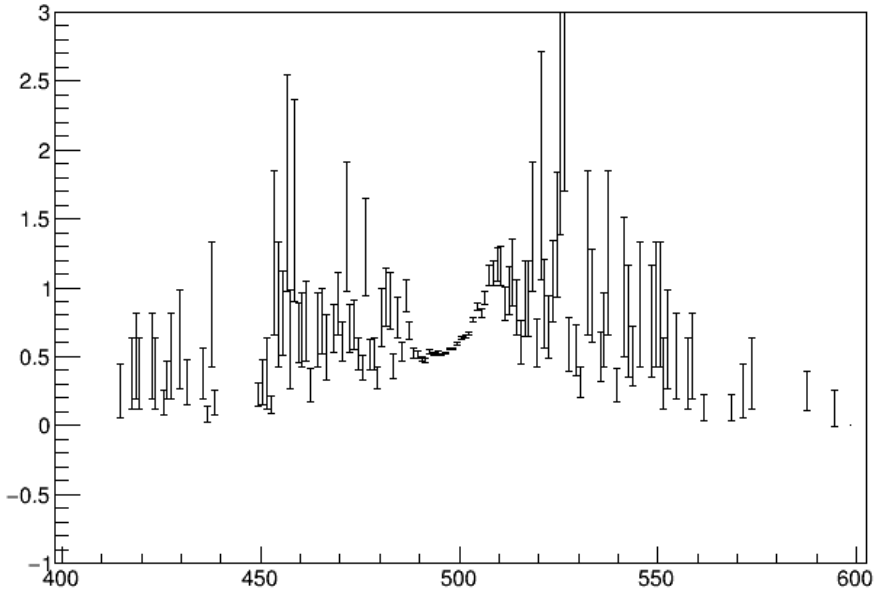




Data : Run62 27kW Normalization
MC : KL3pi0 with Run62 27kW Accidental.

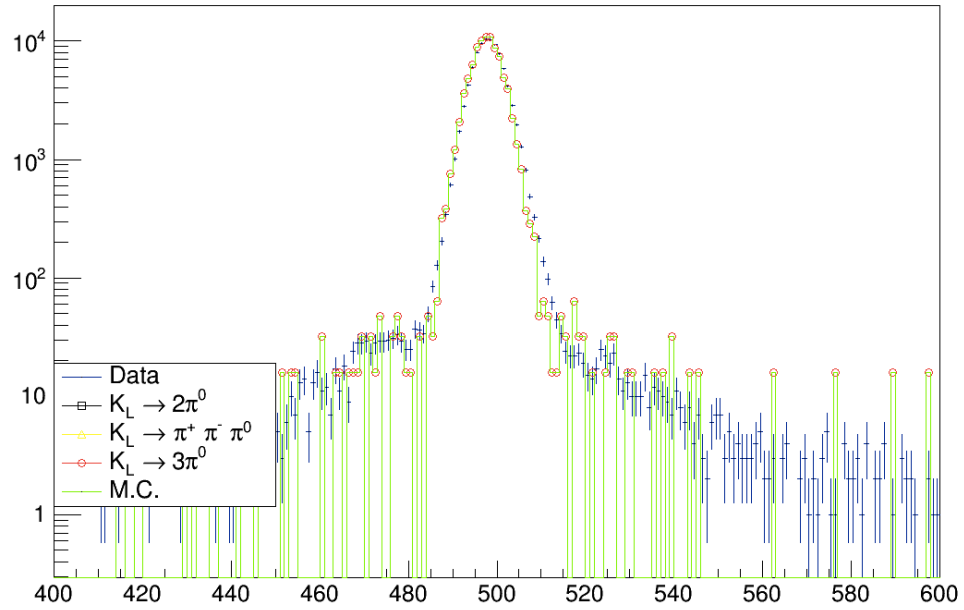
KL3pi0 Mass distribution

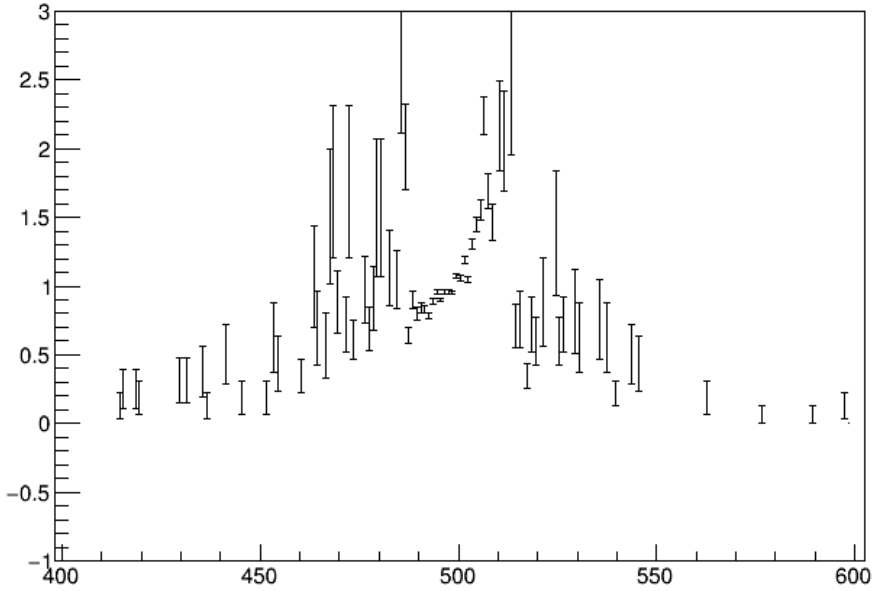




Data : Run65 Normalization
MC : KL3pi0 with Run62 27kW Accidental.

KL3pi0 Mass distribution

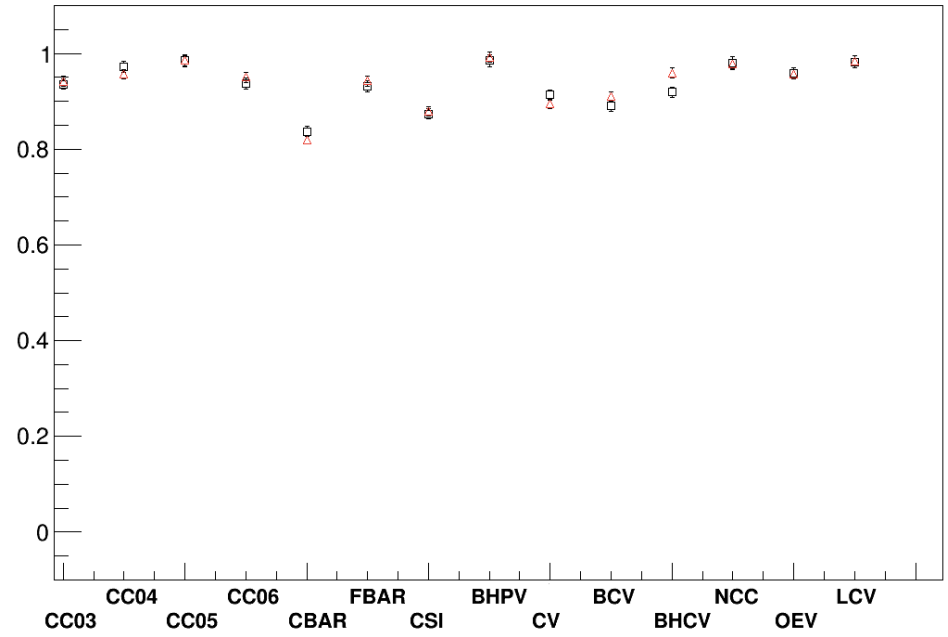




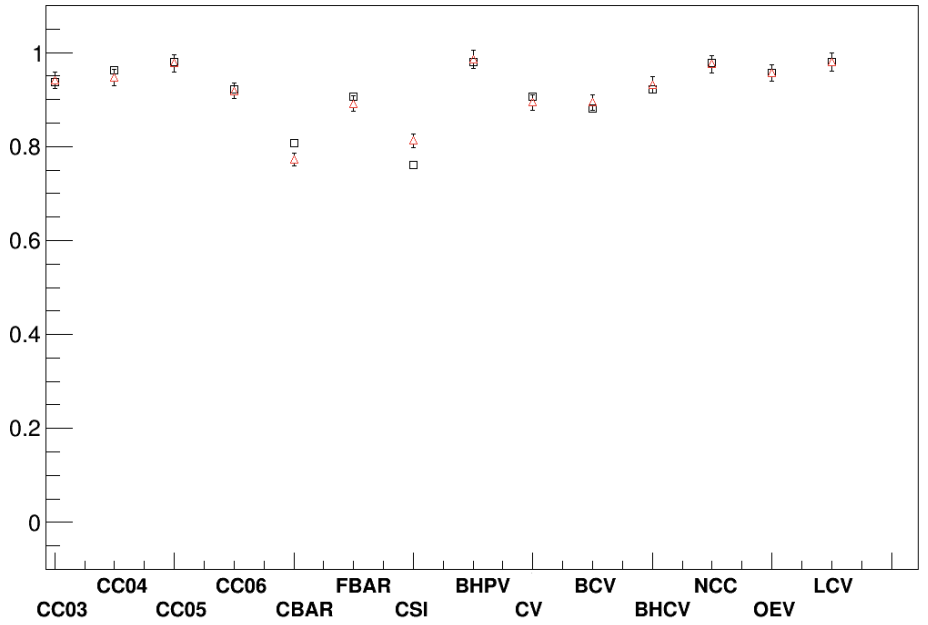
Data : Run65 Normalization
MC : KL3pi0 with Run65 39kW Accidental.

Veto Counters (3pi0)

Run62

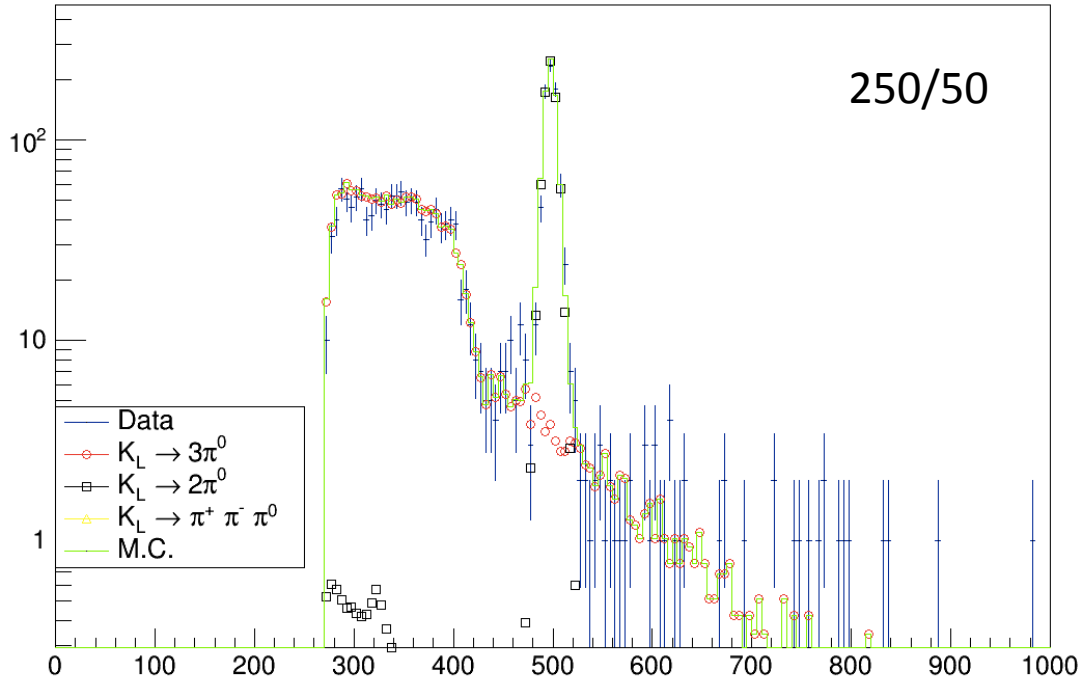


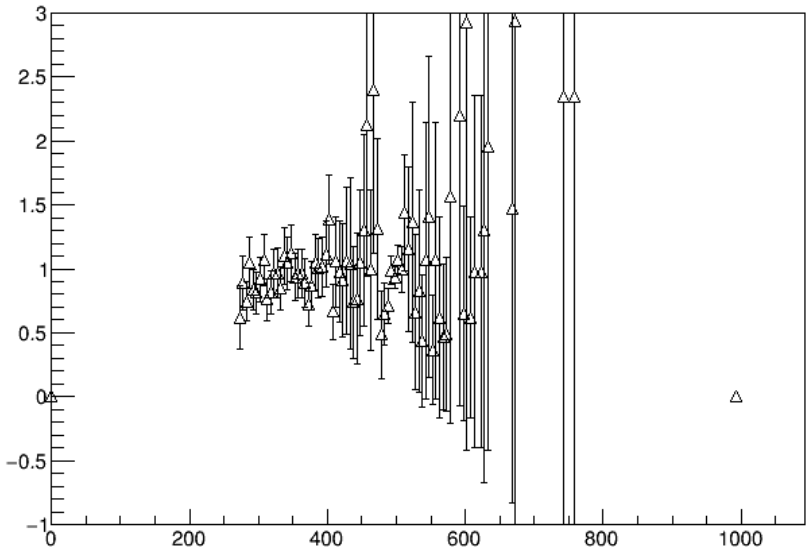
Run65



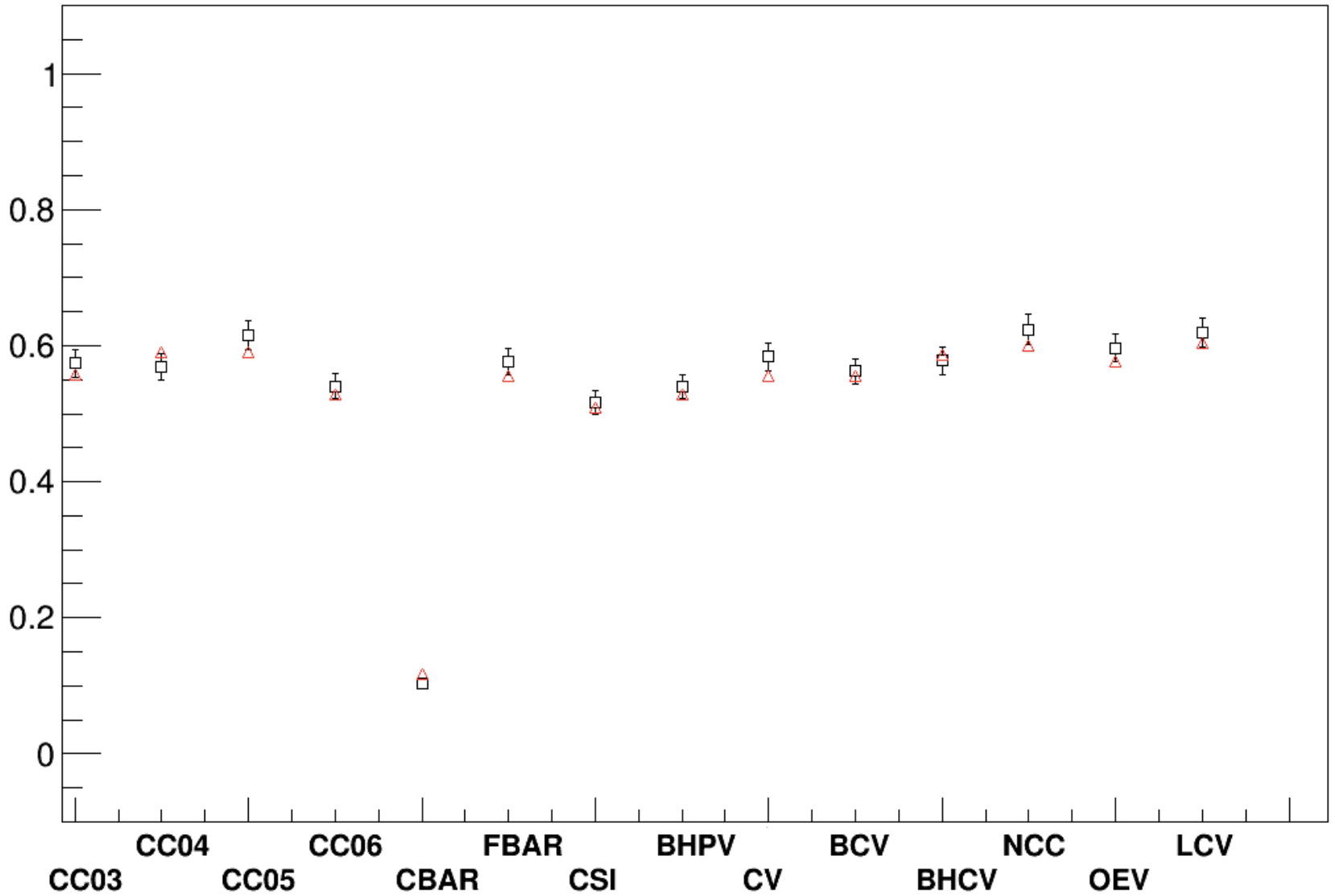
- Comparison btw Run62 Data and Run65 M.C. doesn't give consistency

KLpi0pi0 mass

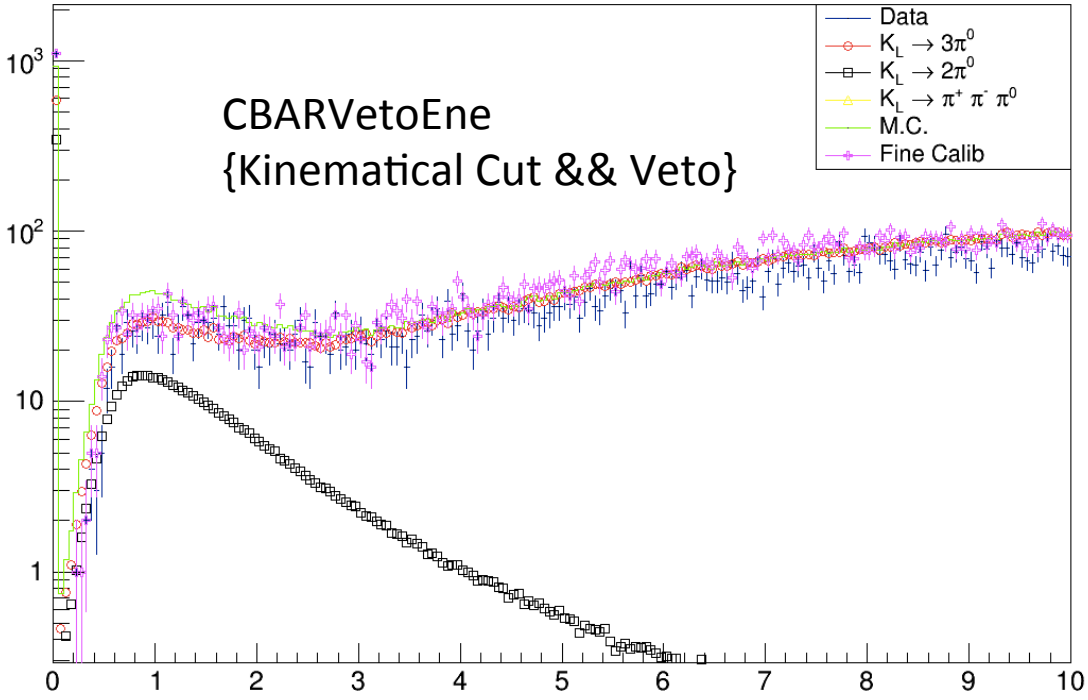




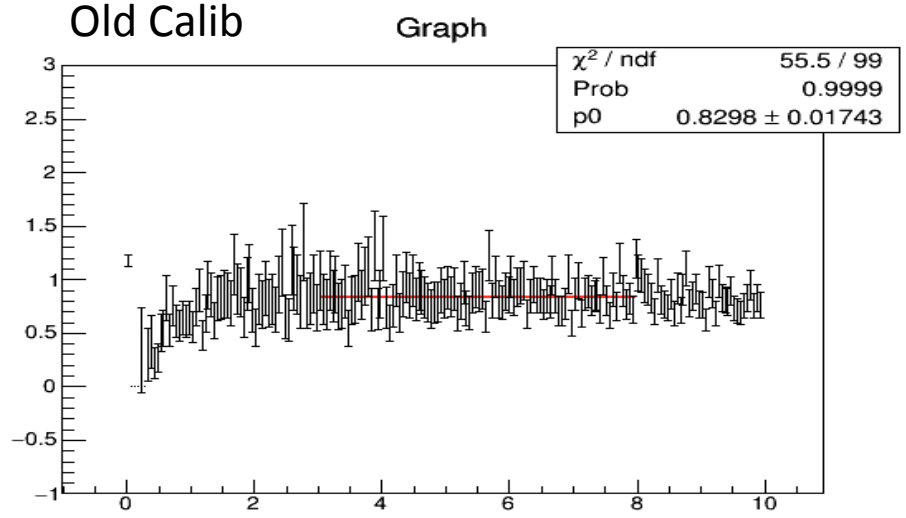
Veto Counters (KLpi0pi0, Run62)



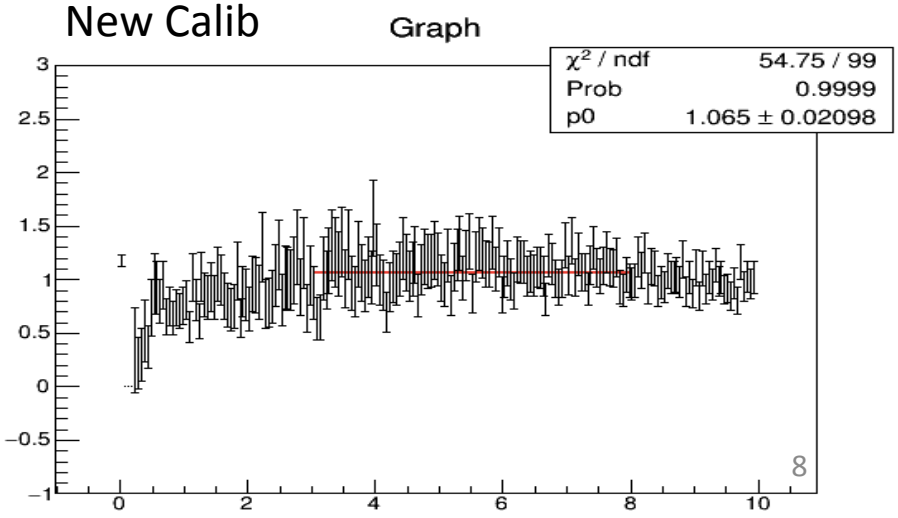
KLpi0pi0 (Run62)



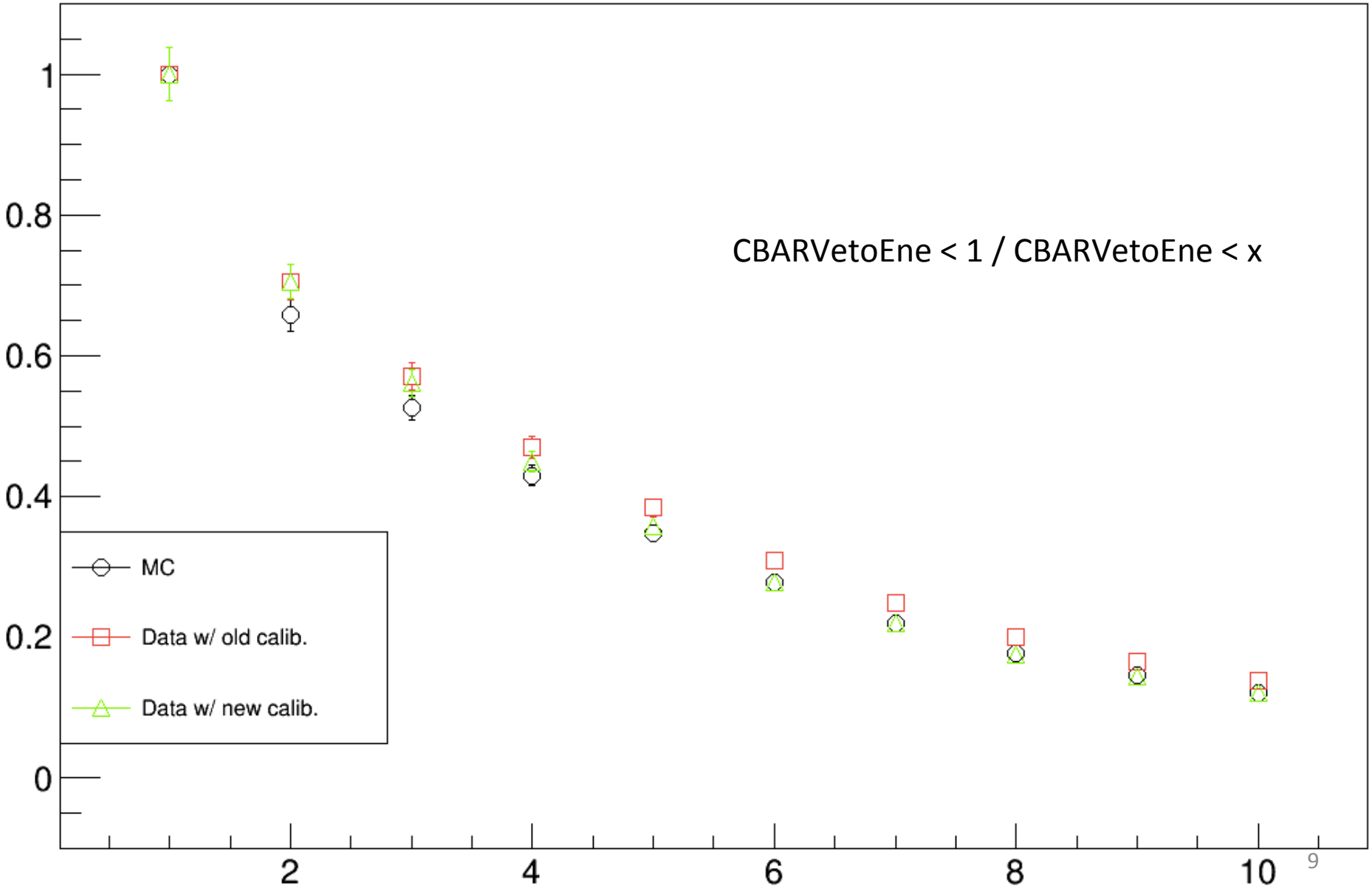
Old Calib



New Calib

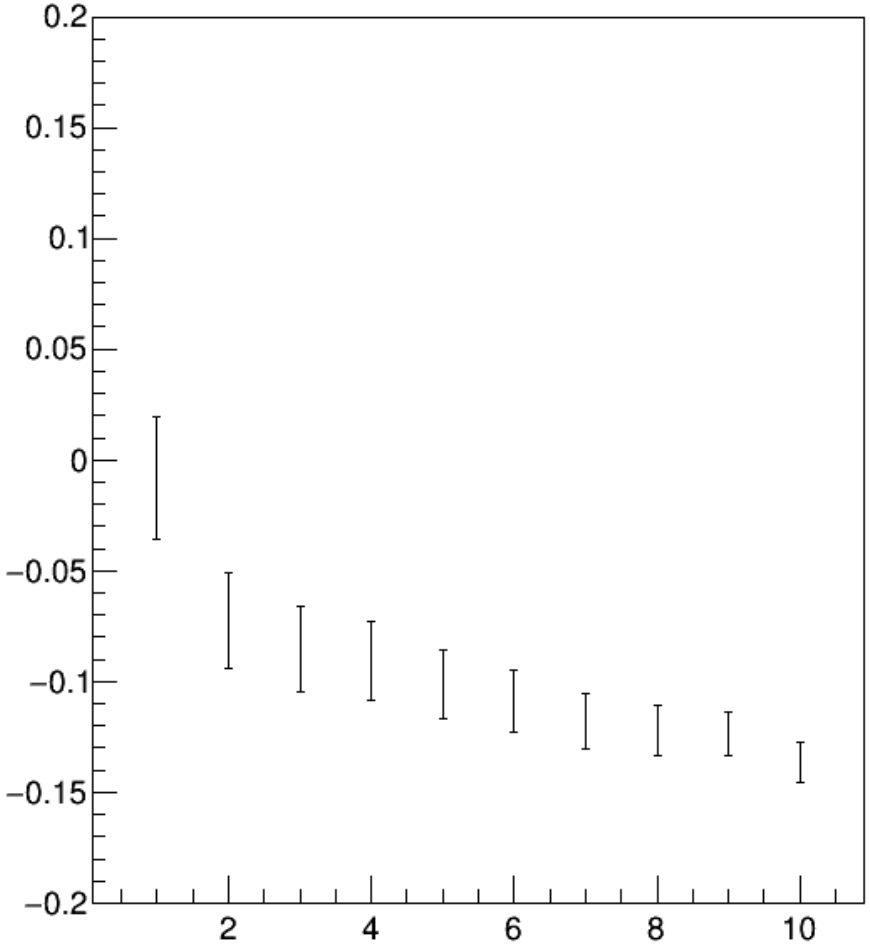


CBARVeto

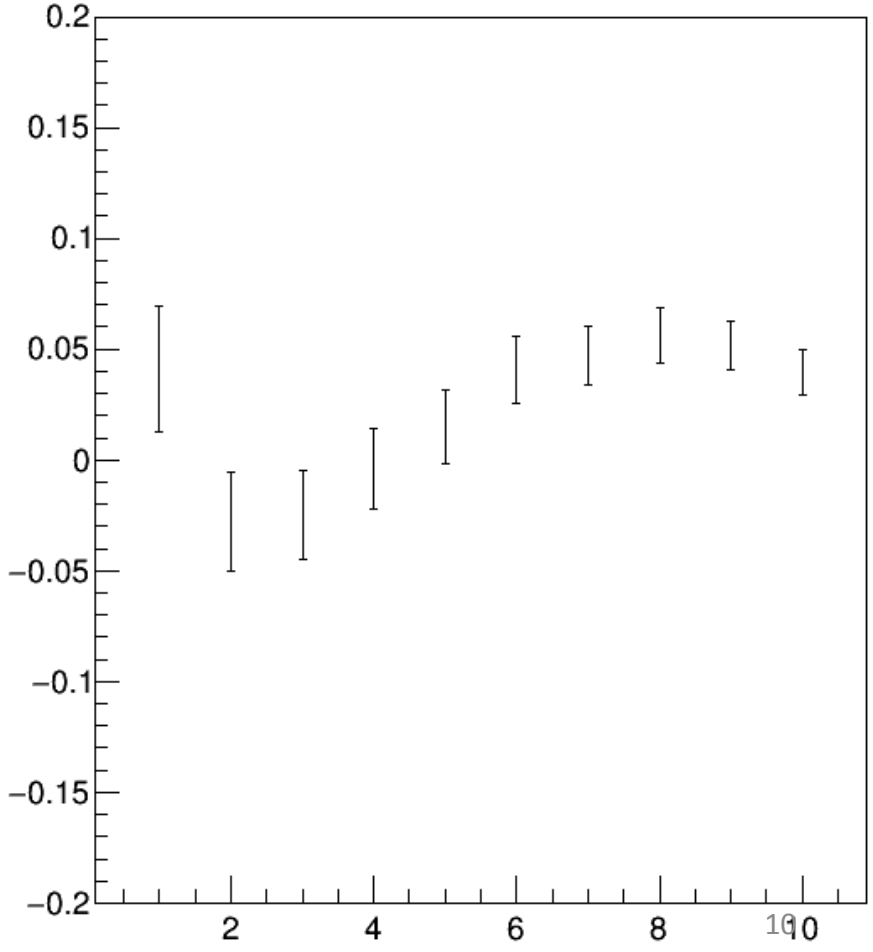

CBARVetoEne < 1 / CBARVetoEne < x
MC
Data w/ old calib.
Data w/ new calib.
1
0.8
0.6
0.4
0.2
0
2
4
6
8
10

(#KL_Data - #KL_MC) / #KL_MC with selection of Kinematical Cut && Veto Cut except CBAR && CBARVetoEne < x(1~10)

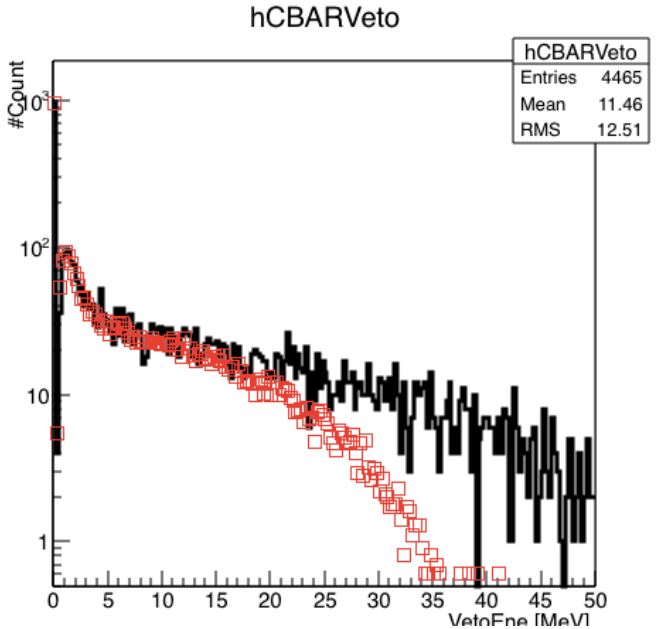
Old Calib

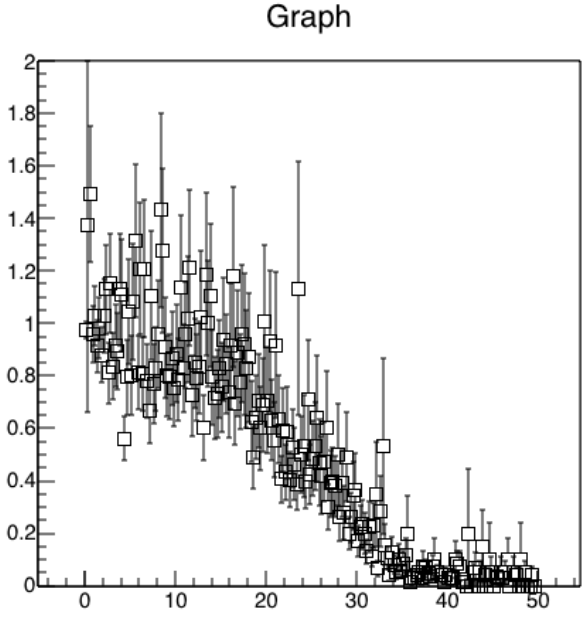


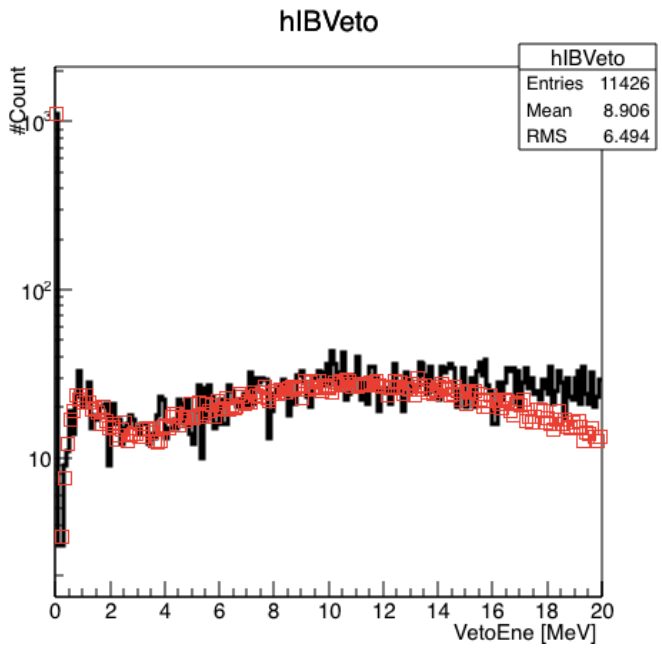
New Calib

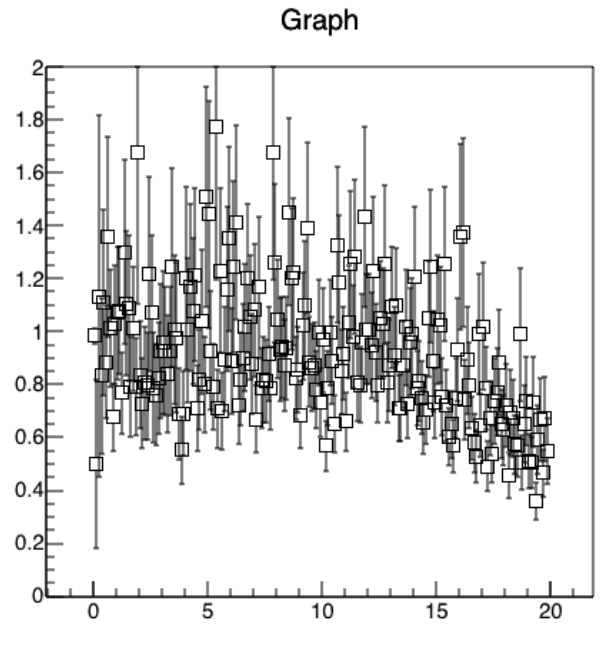


Run69 Online Threshold





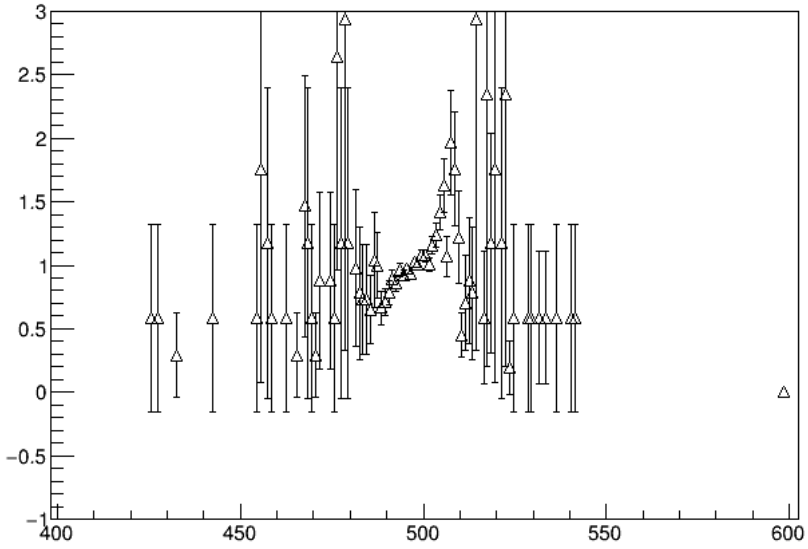


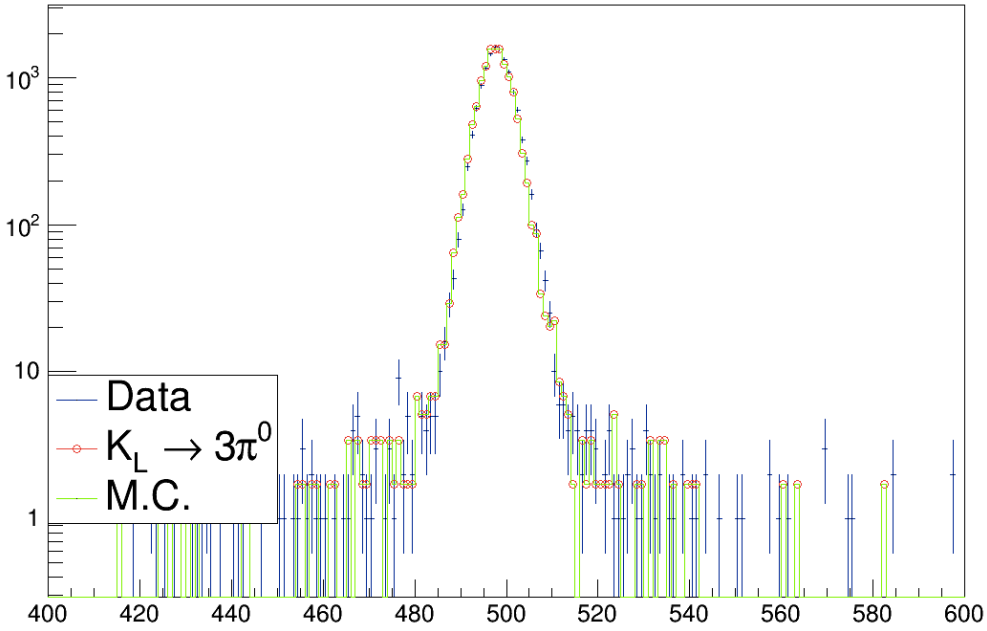


CBAR : 15 MeV
IB : 10 MeV
CV : 0.3 MeV
CC03 : 10 MeV
NCC : 5 MeV

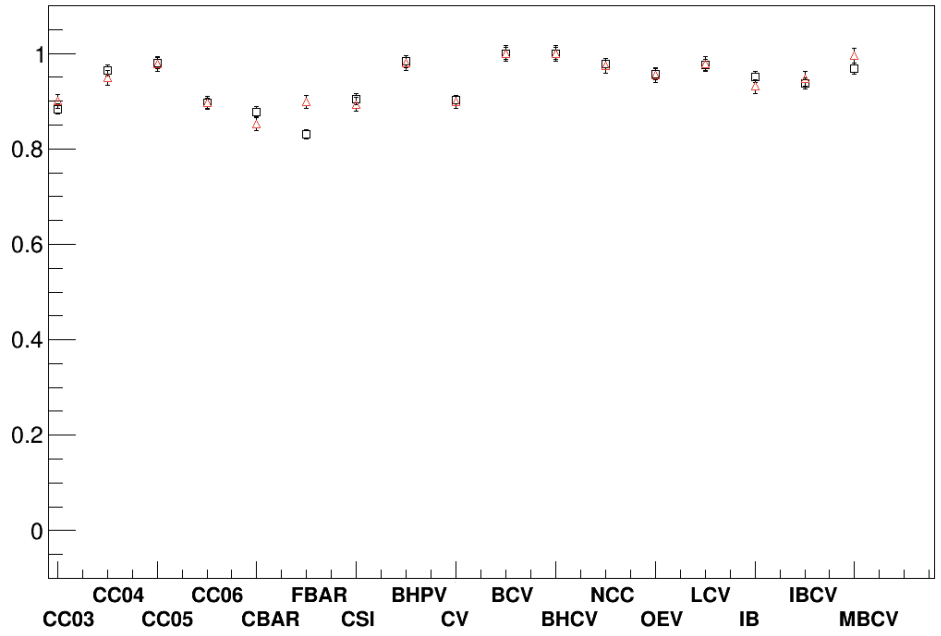
KL3pi0 in Run69

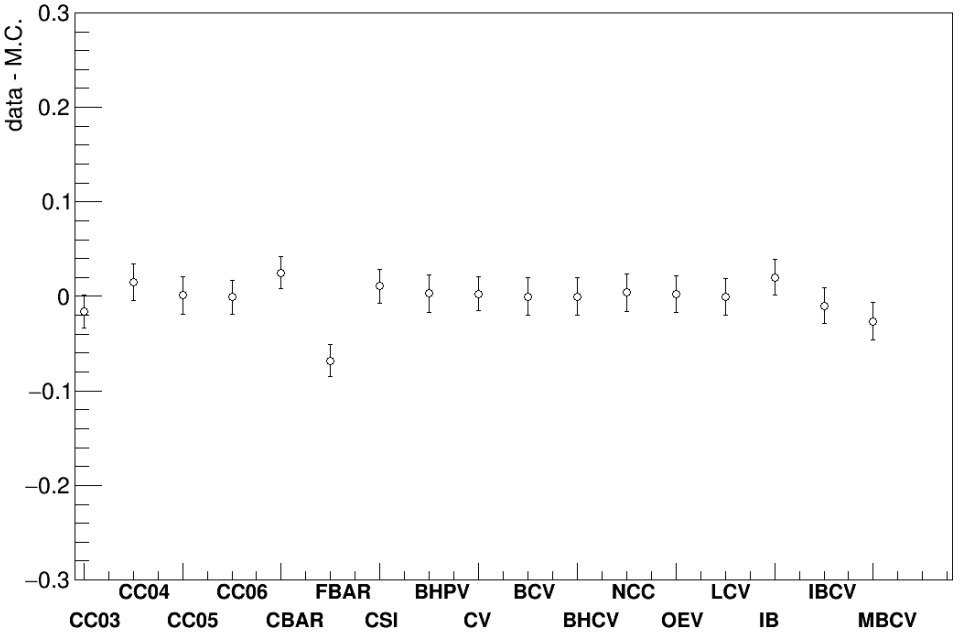
- Data : 23739~. Normalization Trigger
- M.C. : KL 3pi0 only
- KL Flux : 3.73
  - Shinohara san : 4.8





Veto Counters in KL3pi0 of Run69

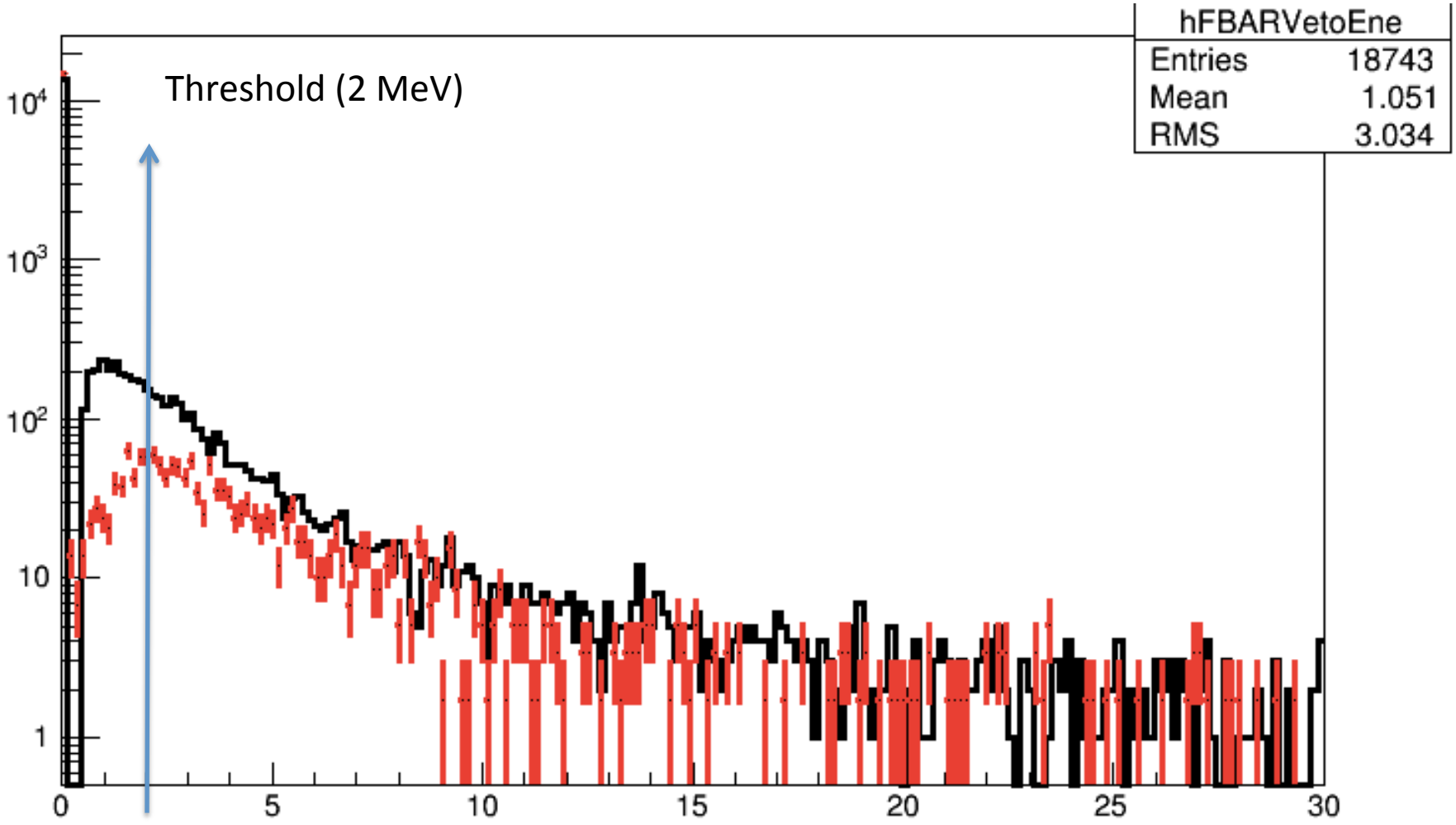




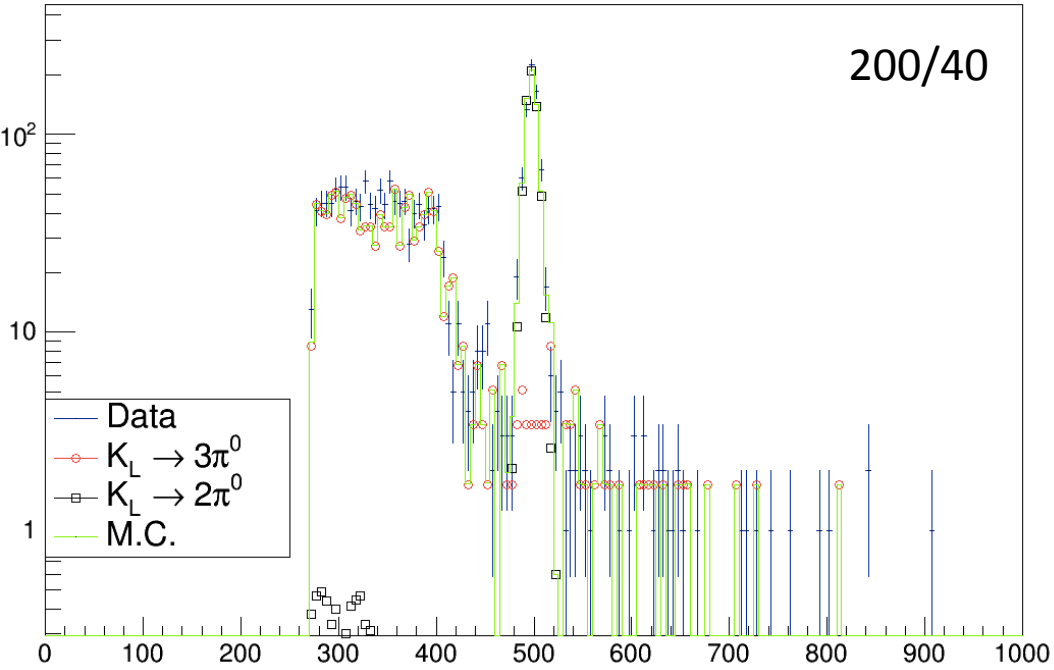
Ignore BCV, BHCV

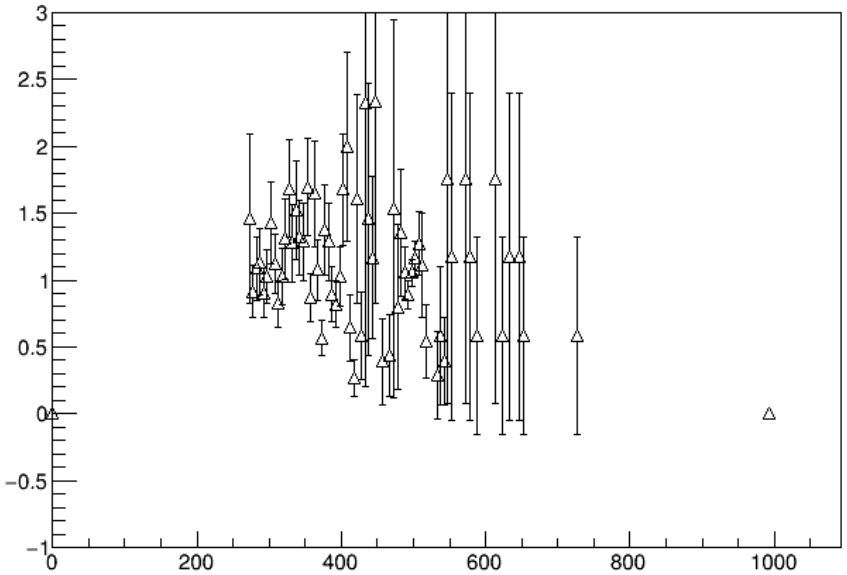
Discrepancy on FBAR

FBAR in KL3pi0

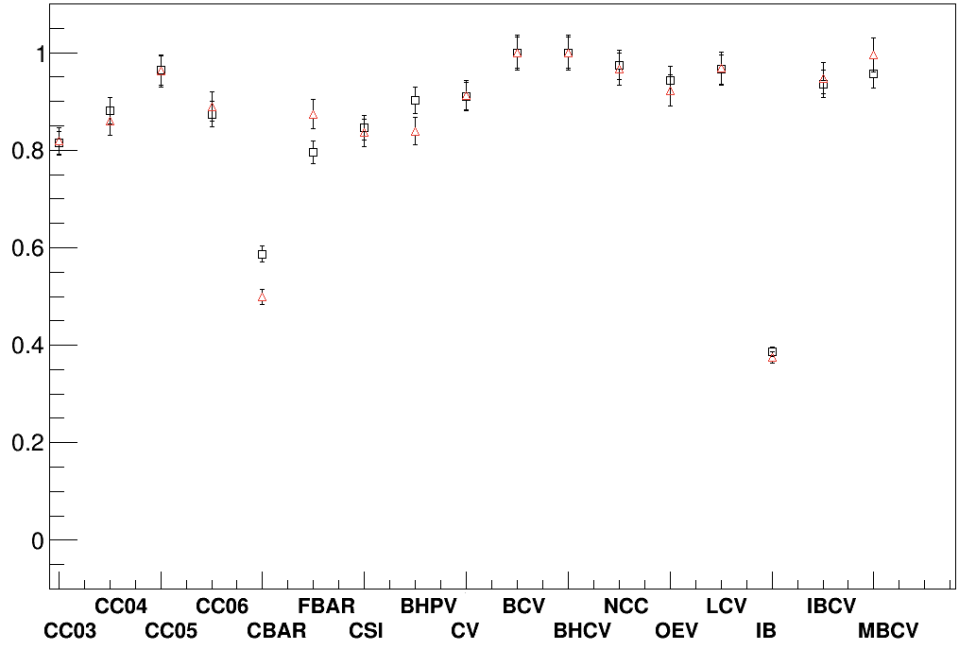


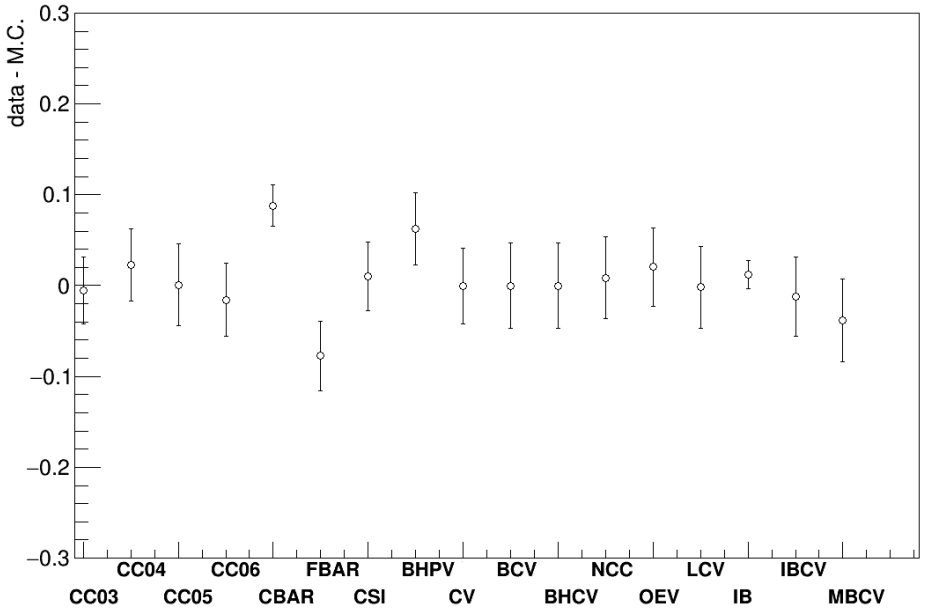
KLpi0pi0 in Run69





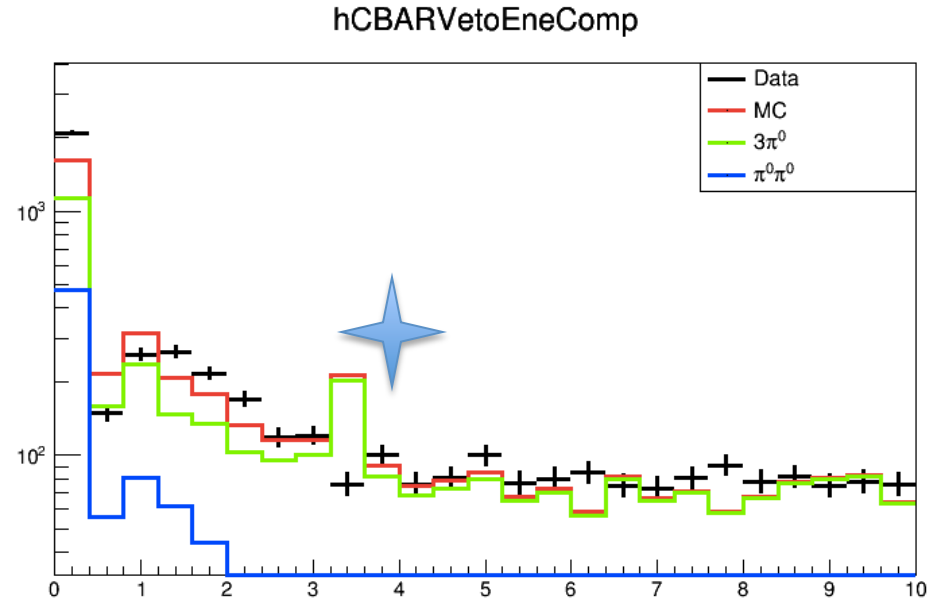
Veto Counters

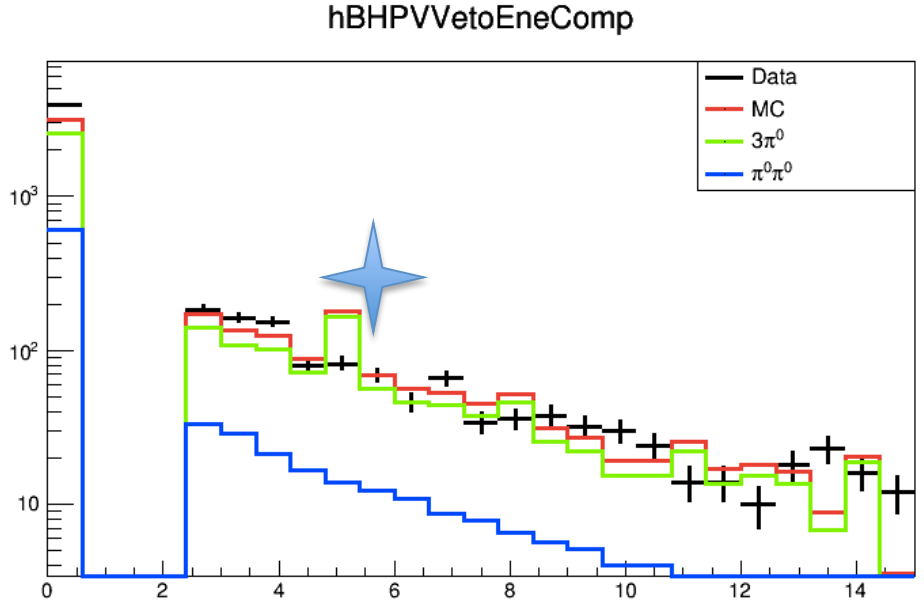


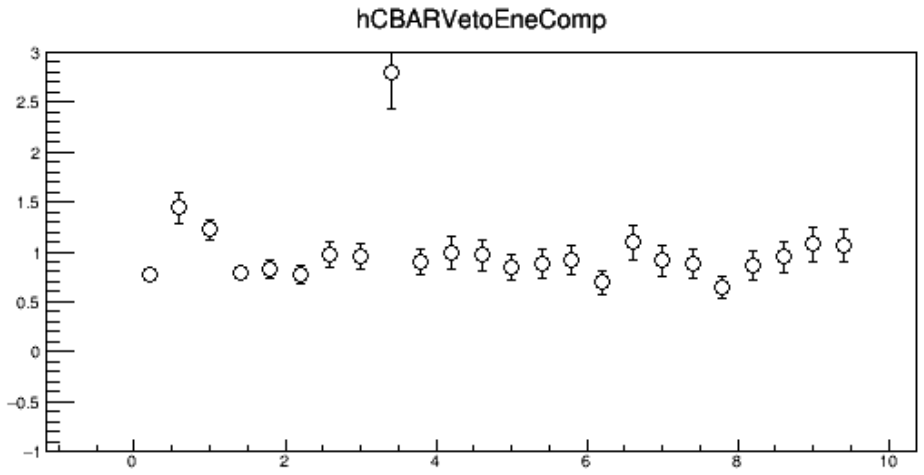


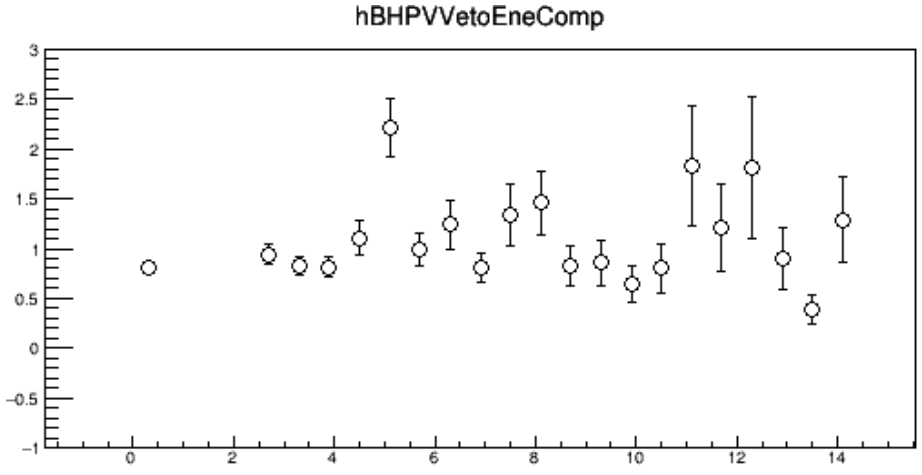
Discrepancy on CBAR, FBAR, BHPV and MBCV
(ignore BCV, BHCV)

Detector response



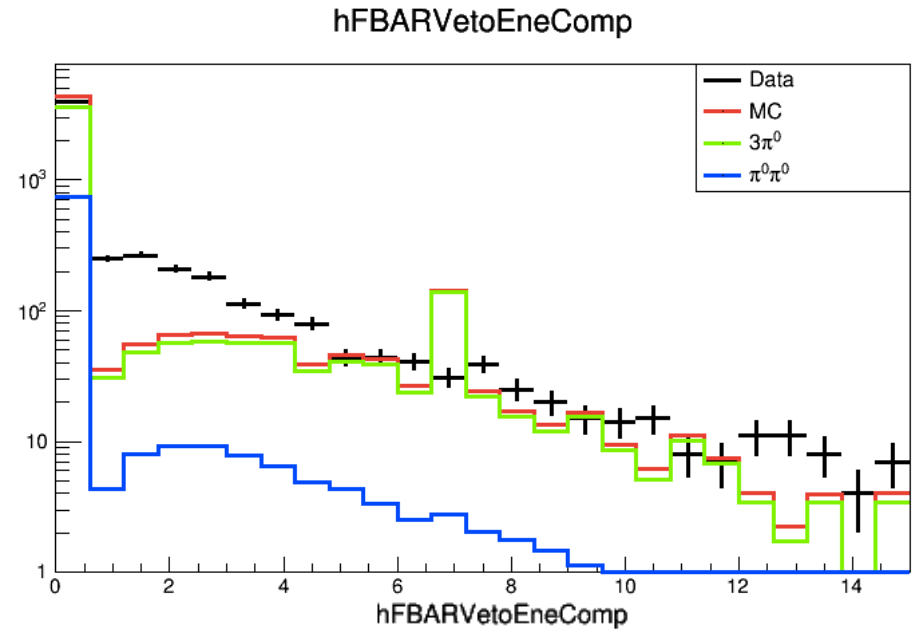


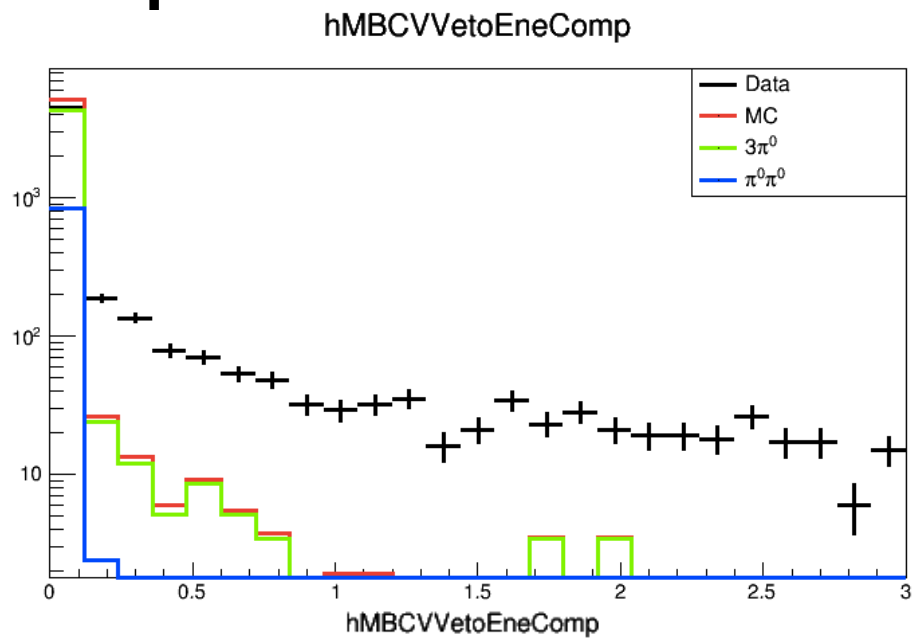




Does one bin make difference?

Detector response

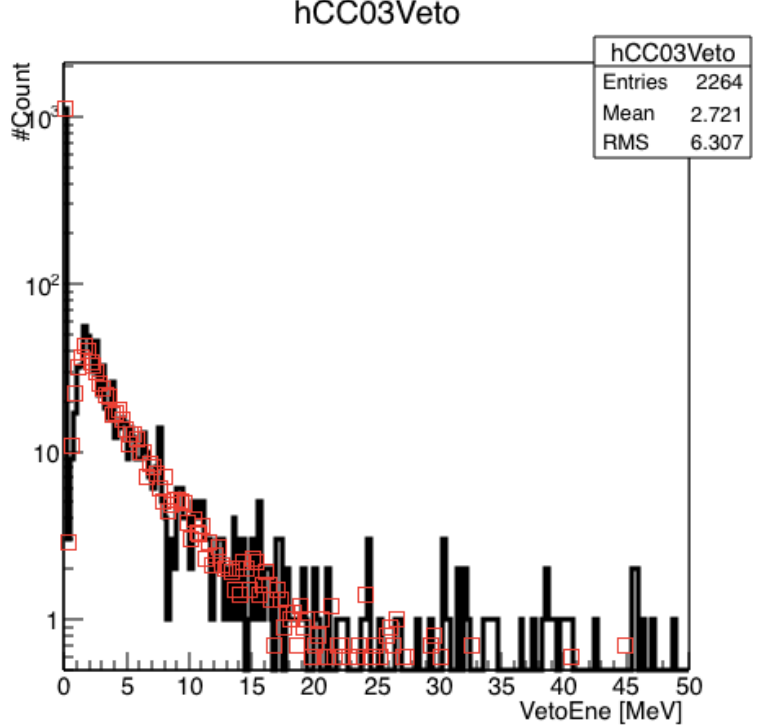


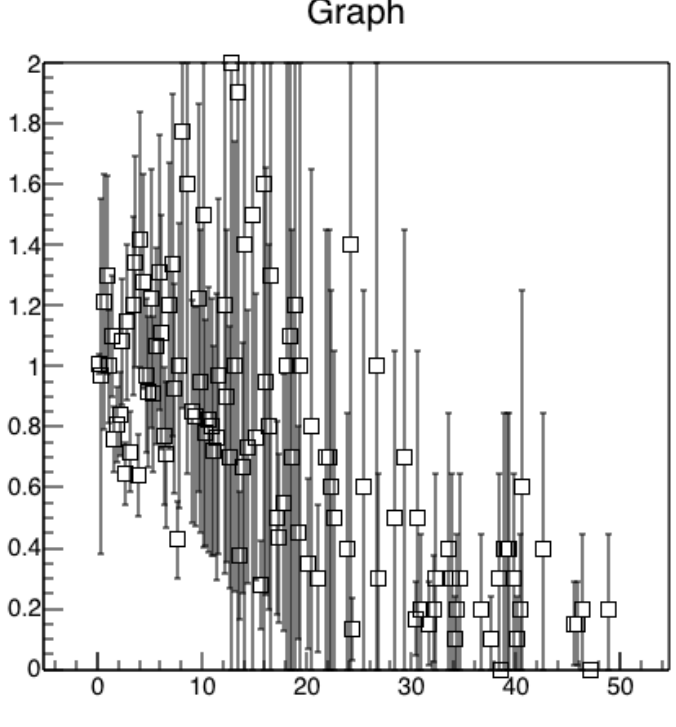


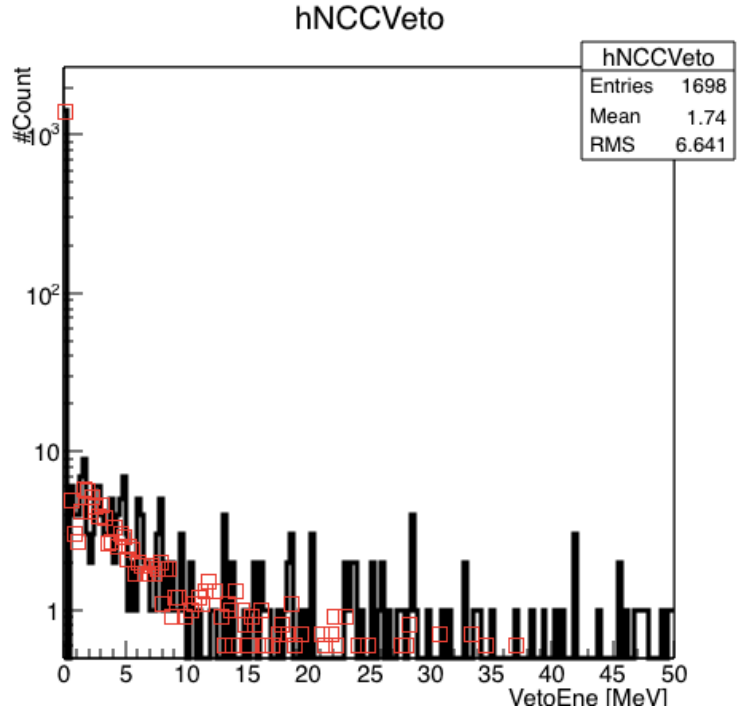
Clear Difference

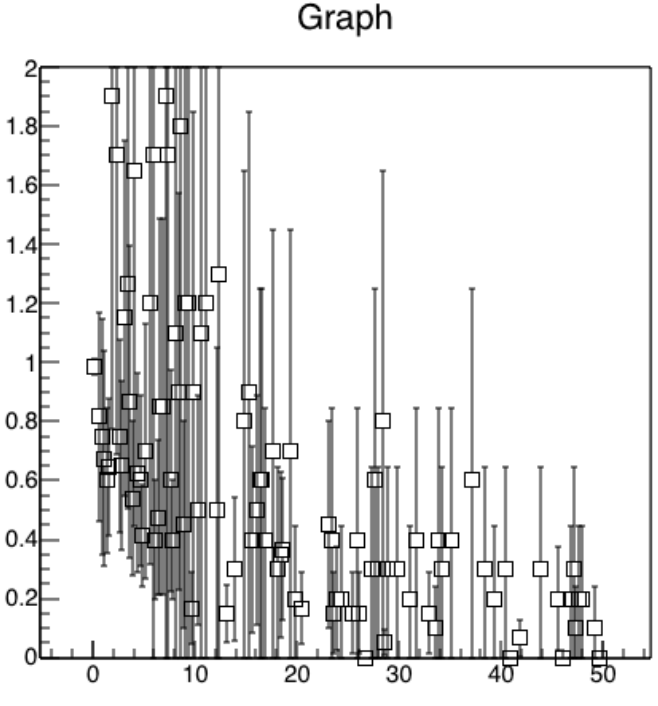
BarrelCalibrationLibrary

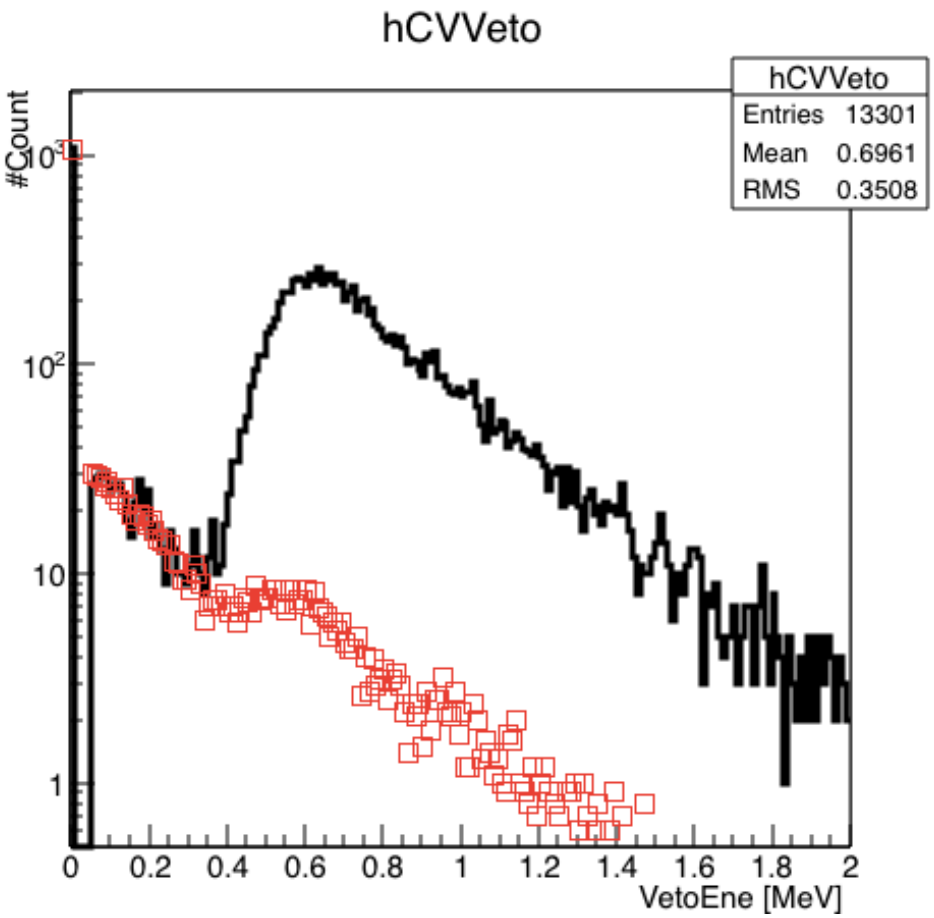
- Codes for Barrel Calibration will be pushed to git
  - Main Barrel (working)
  - Inner Barrel, IBCV, MBCV (same as CBAR but not made)
  - Special treatment for dead channel(not made).
- 10 hours for energy calibration
  - 10 events per a hour for Module0 or 16
    - 100 events for fitting distribution with langau
- 1 hour for time calibration.

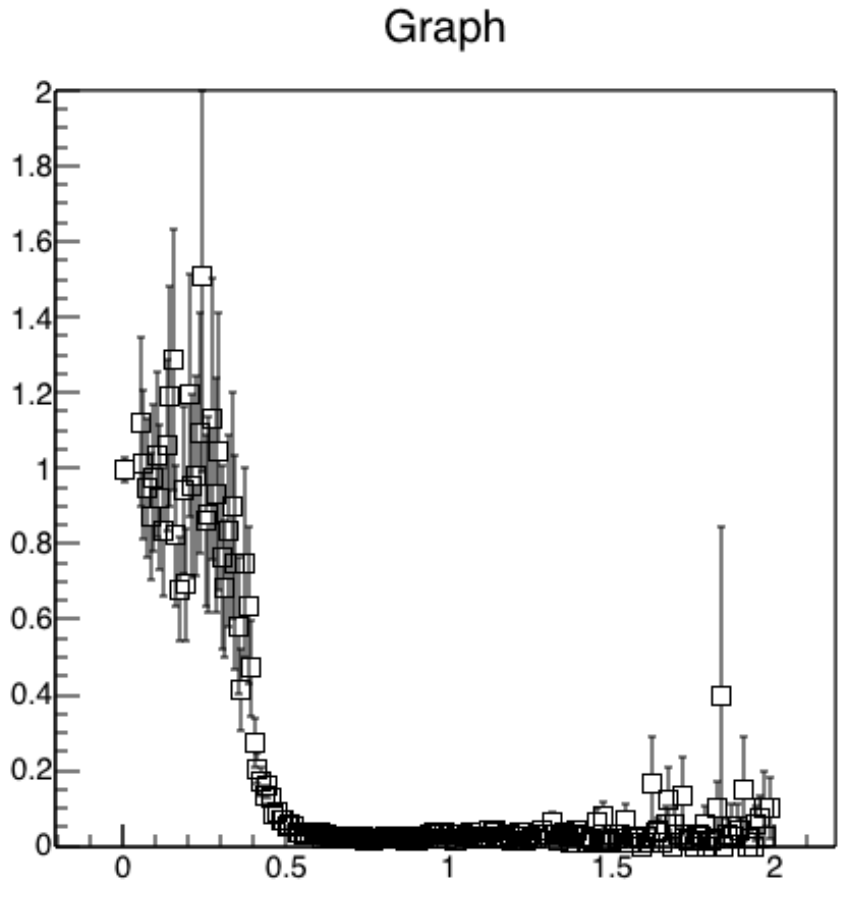

hCC03Veto
hCC03Veto
Entries 2264
Mean 2.721
RMS 6.307
#Count
VetoEne [MeV]


Graph


hNCCVeto
hNCCVeto
Entries 1698
Mean 1.74
RMS 6.641
#Count
VetoEne [MeV]


Graph


hCVVeto
hCVVeto
Entries 13301
Mean 0.6961
RMS 0.3508
#Count
VetoEne [MeV]


Graph