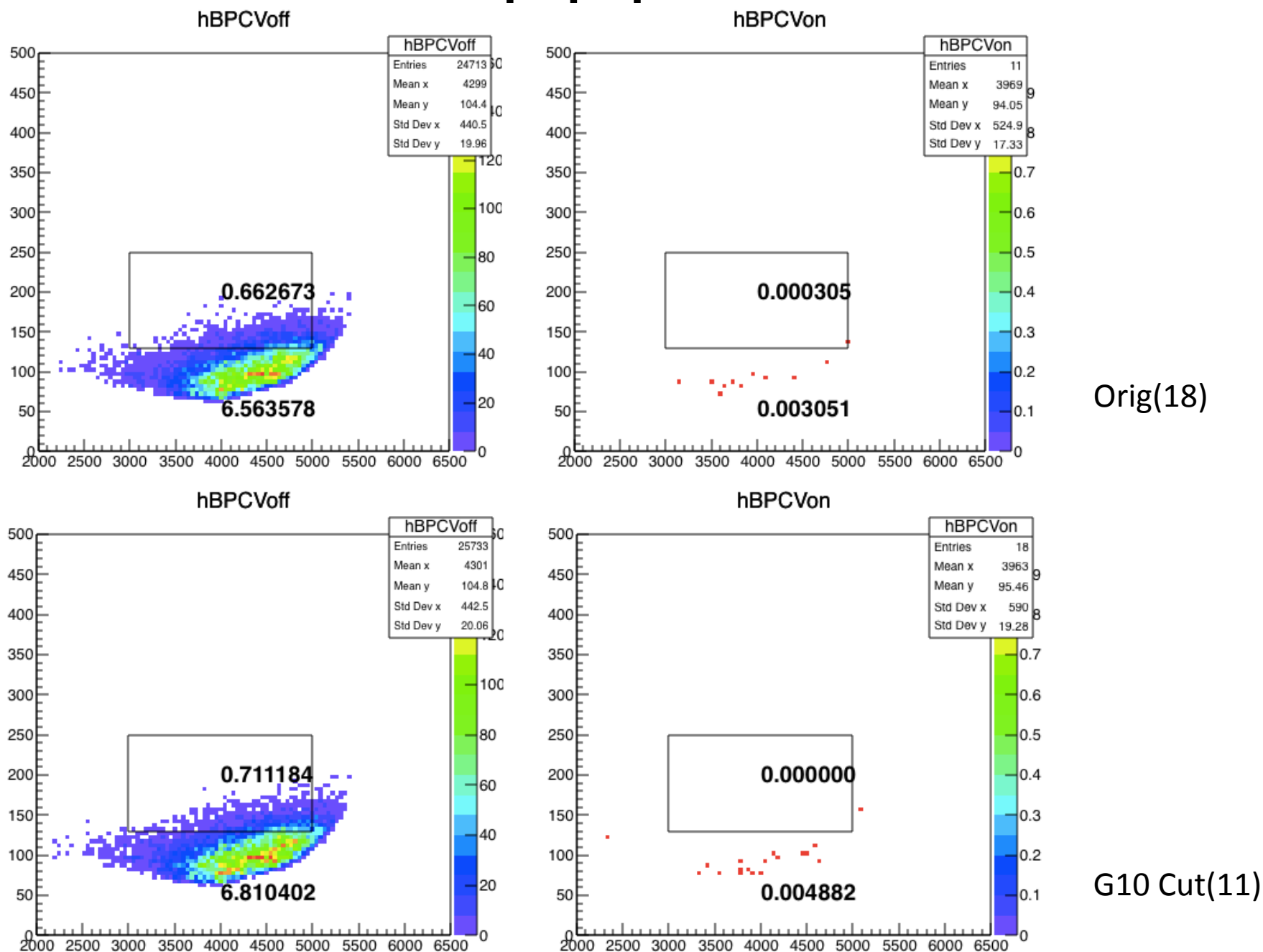


Report_180308

KLpipi0 MC

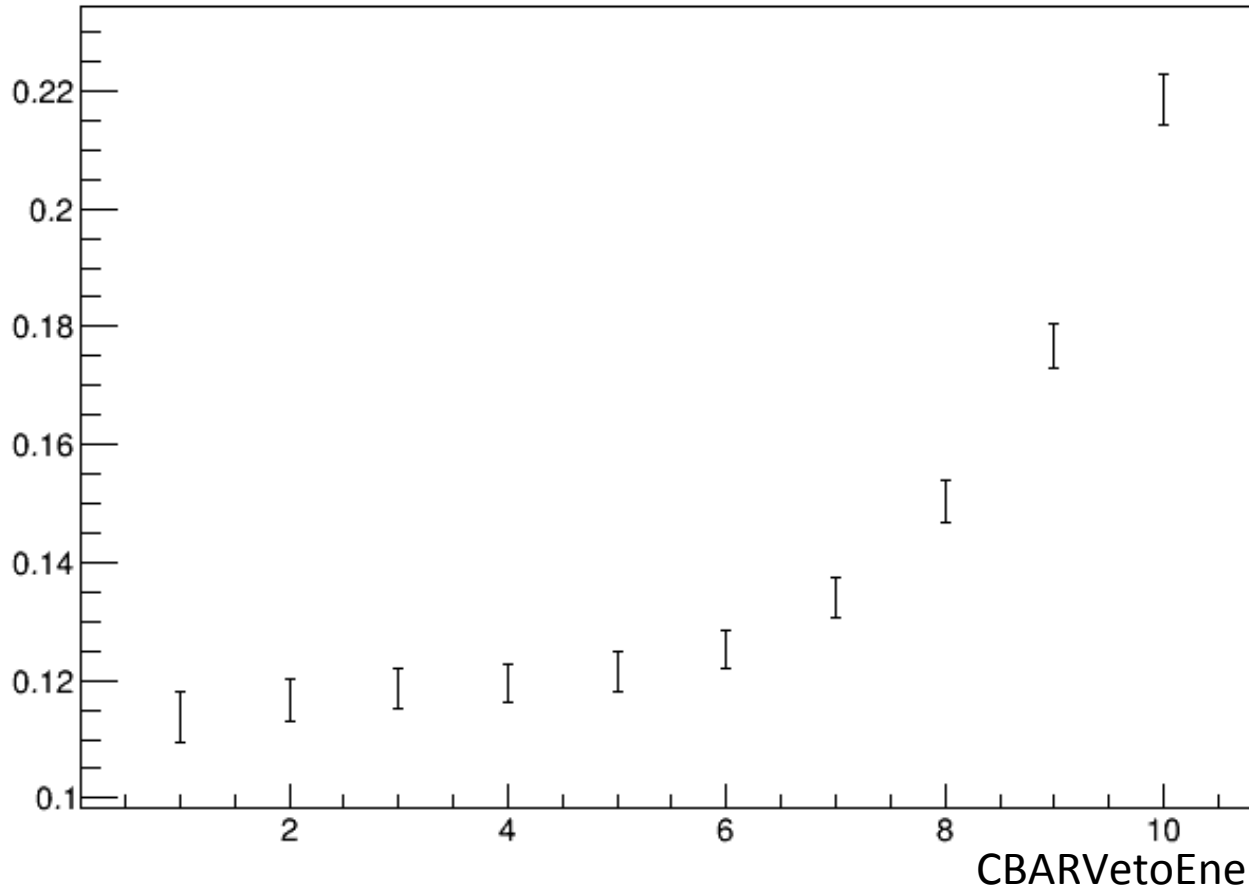


NCC Background estimation check

- Run65 Data for considering MB response only
- Selection
 - $(\text{CutCondition} | 0xc) == 0xc$
 - $(\text{AddCutCondition} | 0xc0) == 0xc0$
 - GoodRun & GoodSpill & !Error
 - $\text{BHGCVetoEne} < 2.5$ & $\text{newBHCVVetoEne} < 886e-6/4$
& $\text{BPCVVetoEne} < 1.0$
 - $(\text{MyVetoCondition} | 0x40) == 0x40$
- Check number of upstream event changing main barrel veto energy threshold

Ratio of number of remaining event at upstream

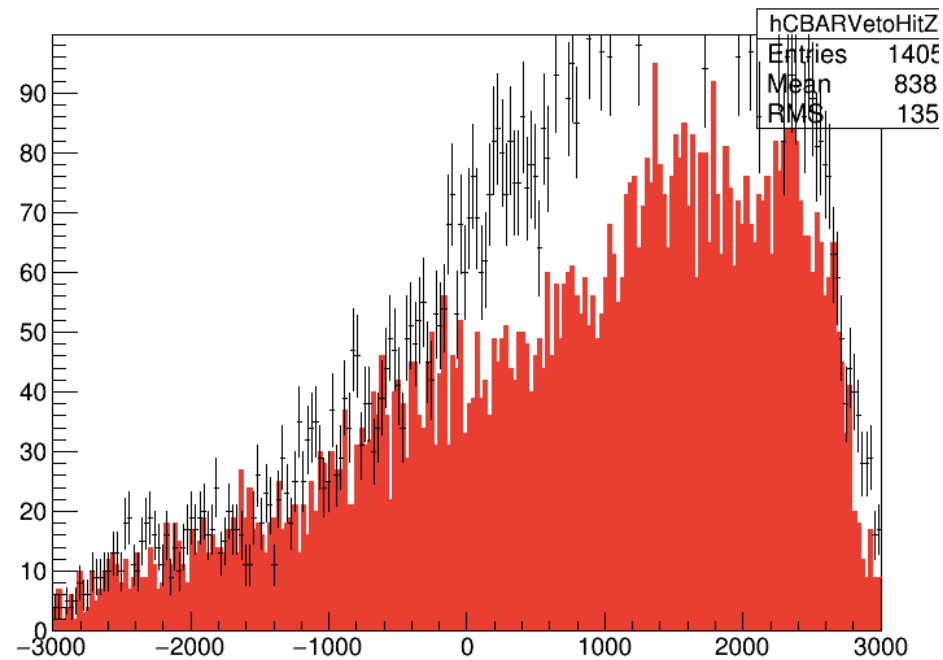
Data/MC



CBARHitZ

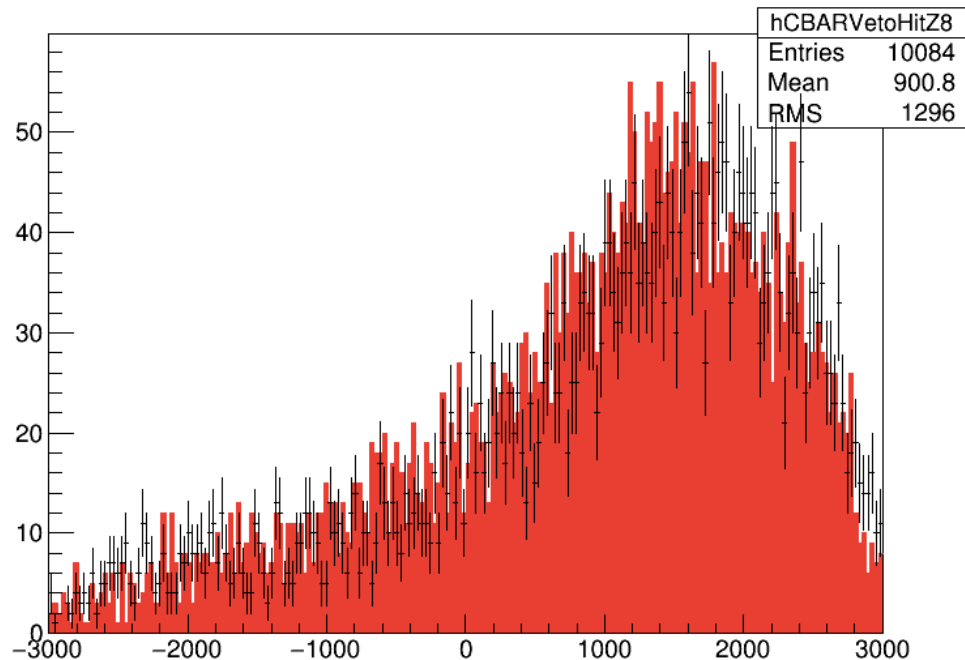
Veto Threshold = 10 MeV

hCBARVetoHitZ0

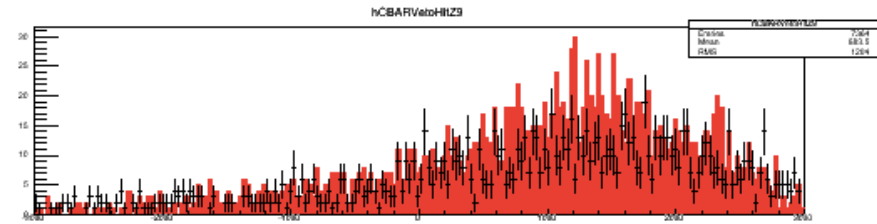
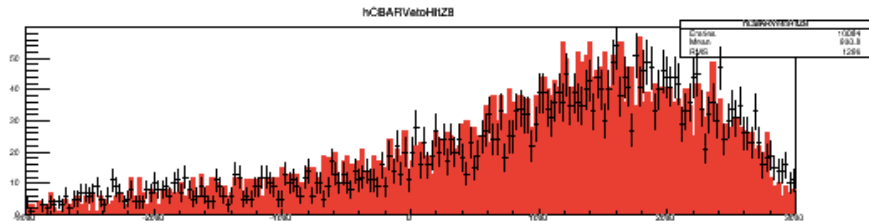
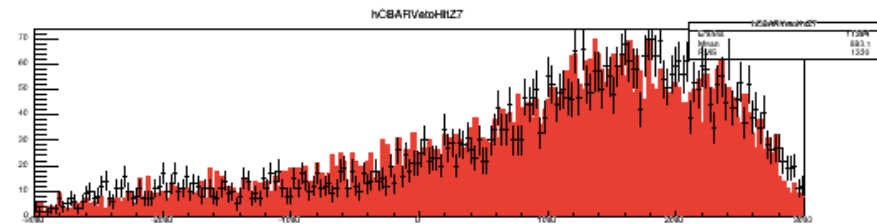
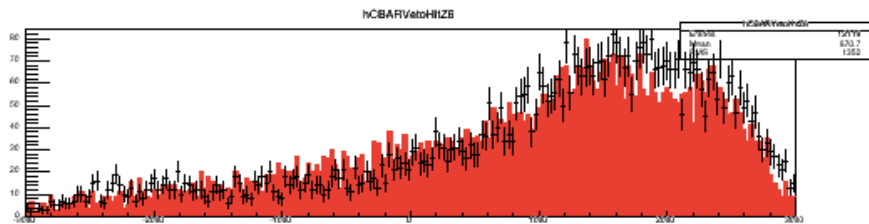
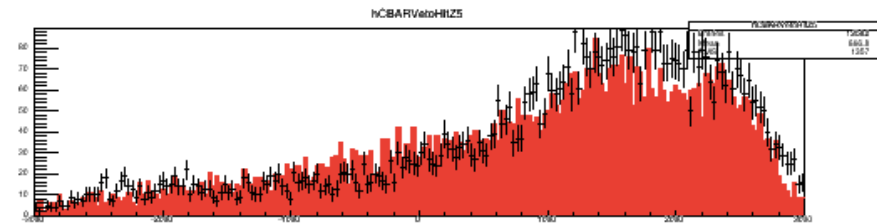
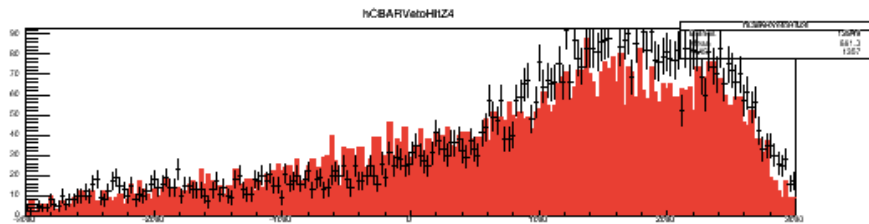
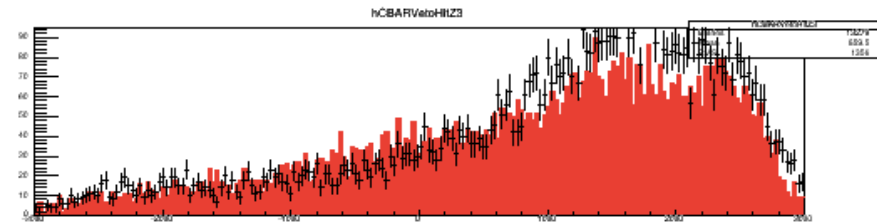
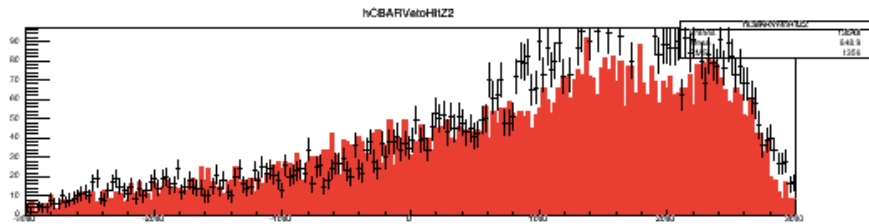
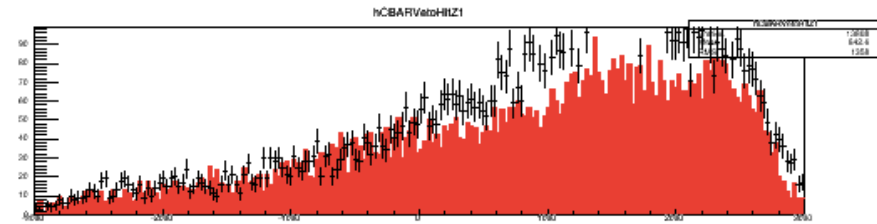
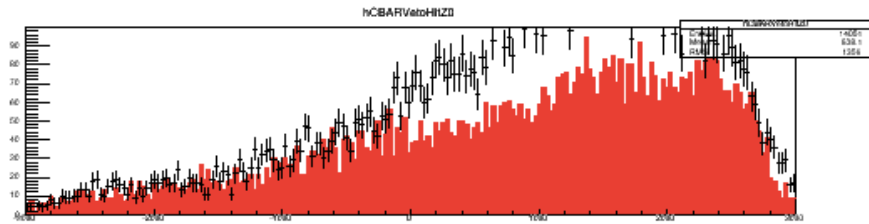


Veto Threshold = 2 MeV

hCBARVetoHitZ8



Changing veto threshold



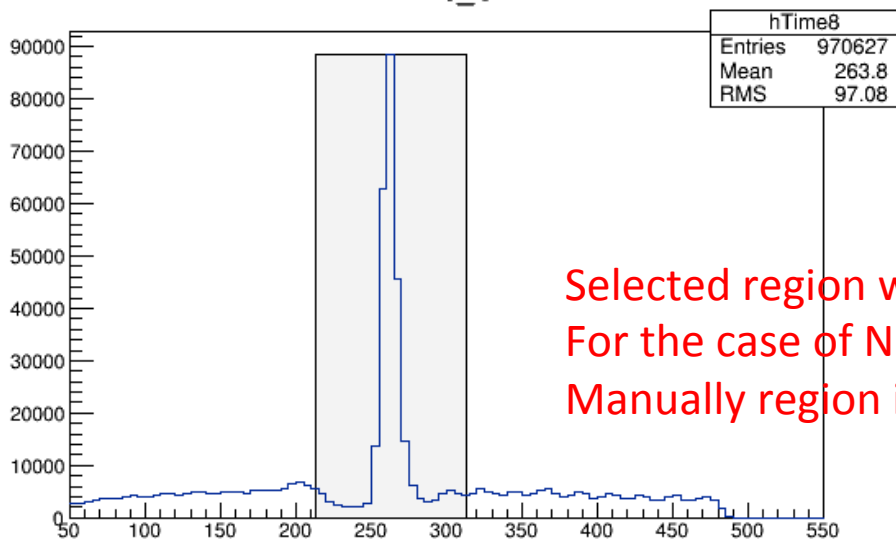
Checking TMon data

Accidental validity using 3pi0

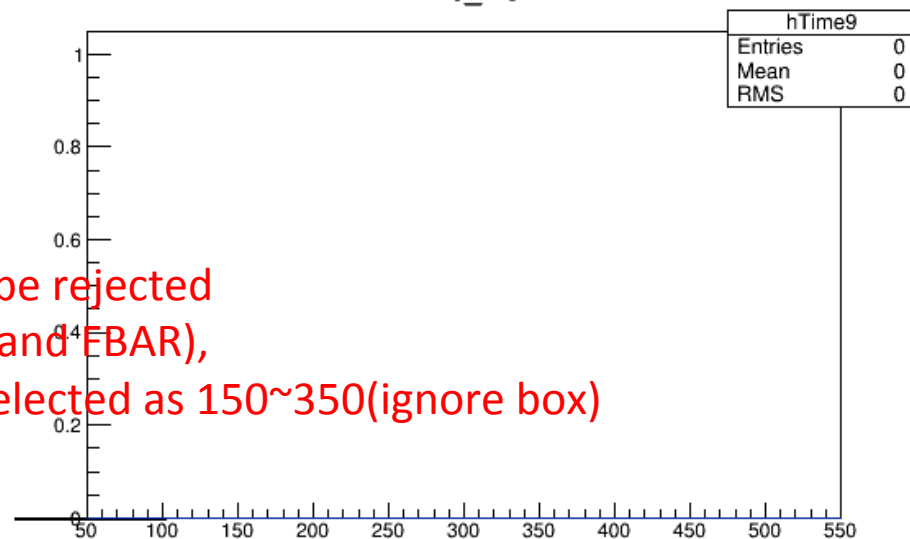
- Data : Run74, 78
 - Normalization data with online veto threshold
 - Kinematical cut
 - `(MyCutCondition|0x2)==0x2`
 - Run74 Trig : CDTTrig_COE165
- Flow
 - Check 3pi0 data -> Get timing range related to Csl Trigger -> Check number of event & energy distribution after removing the timing range
 - CC04, CC05 and CC06 are not properly compared
 - Scint and KTeV are ignored

Timing distribution

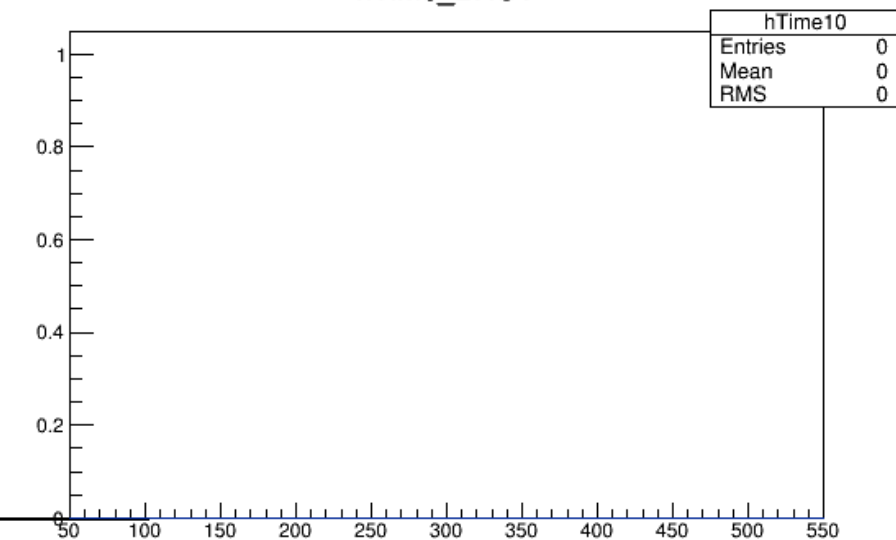
hTime_CV



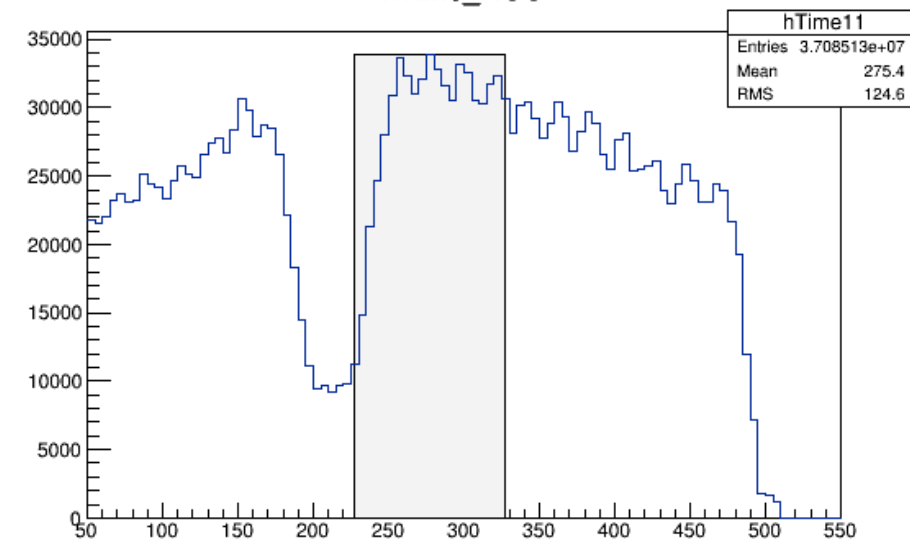
hTime_BCV



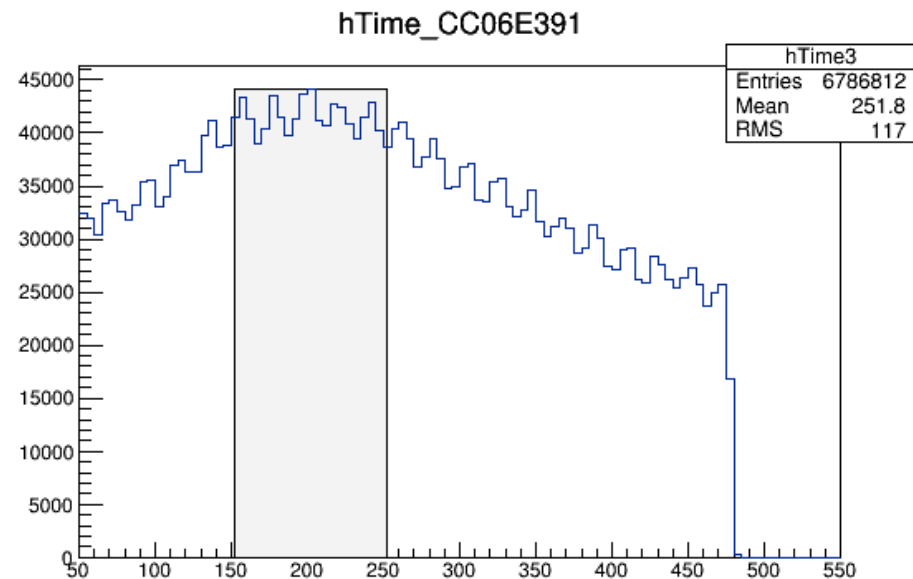
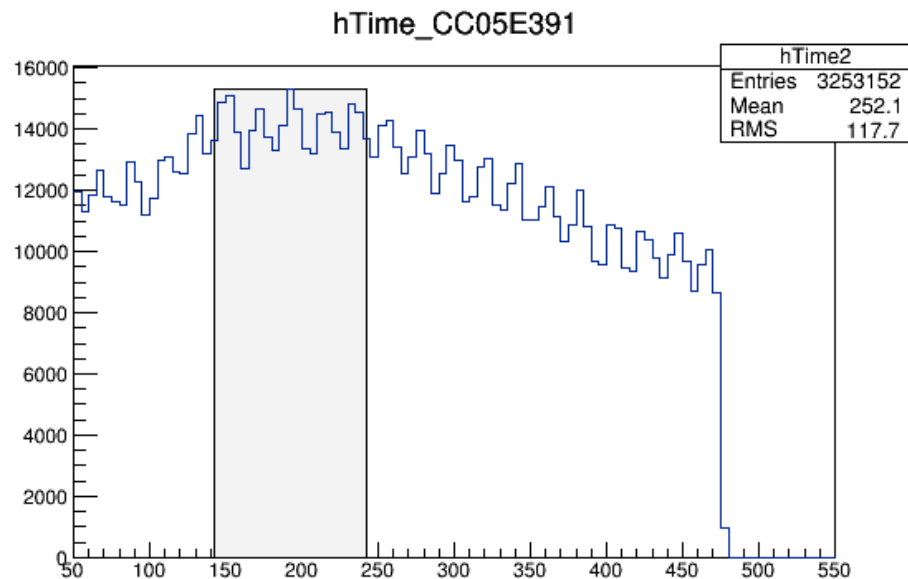
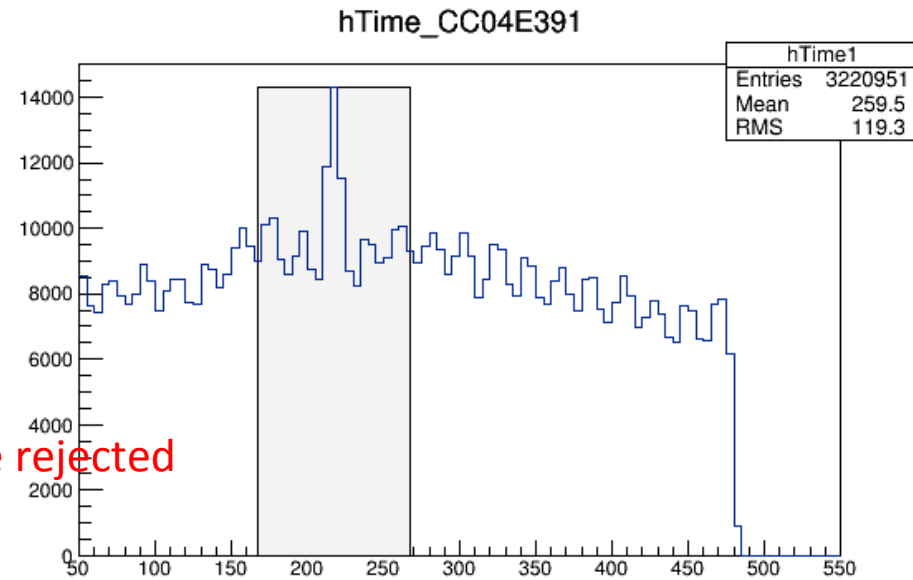
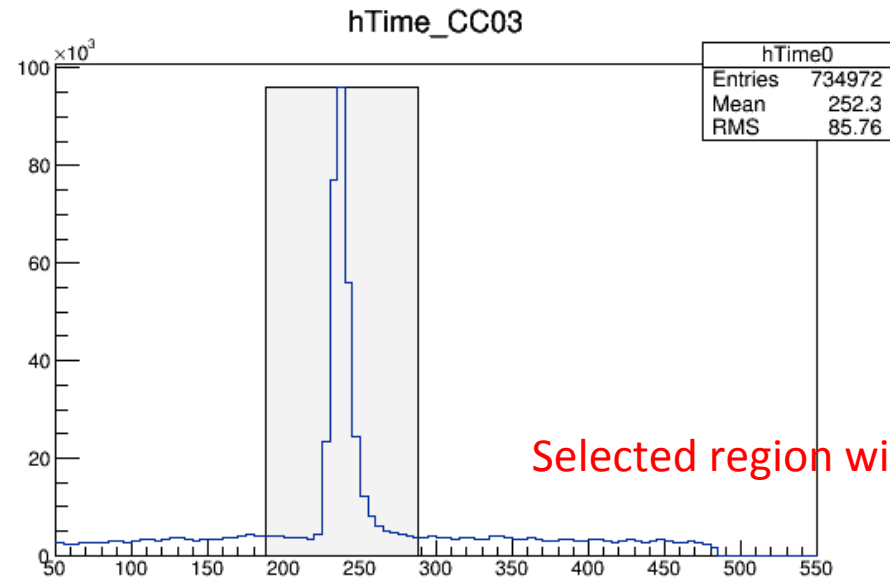
hTime_BHCV



hTime_NCC

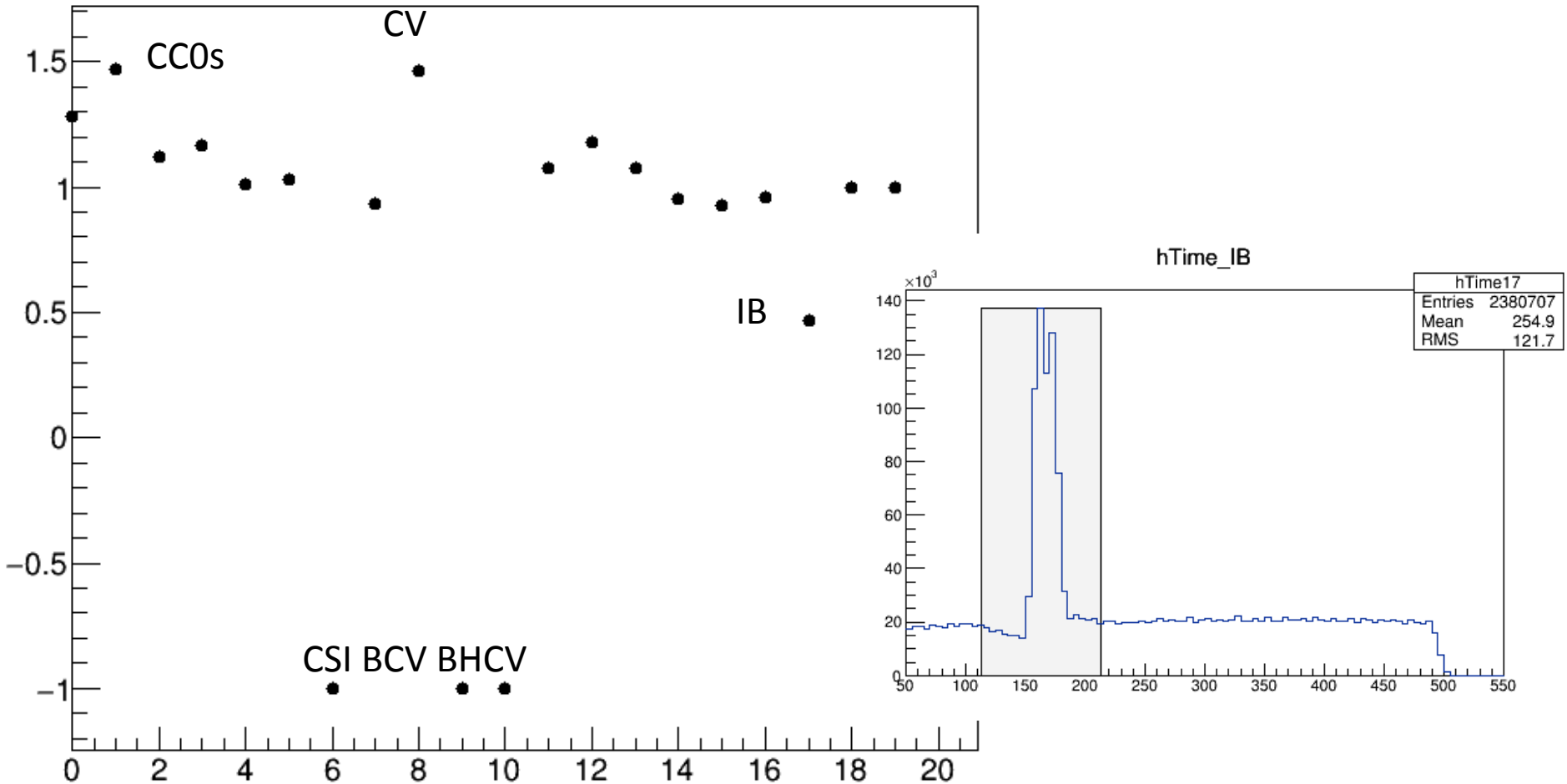


Timing distribution



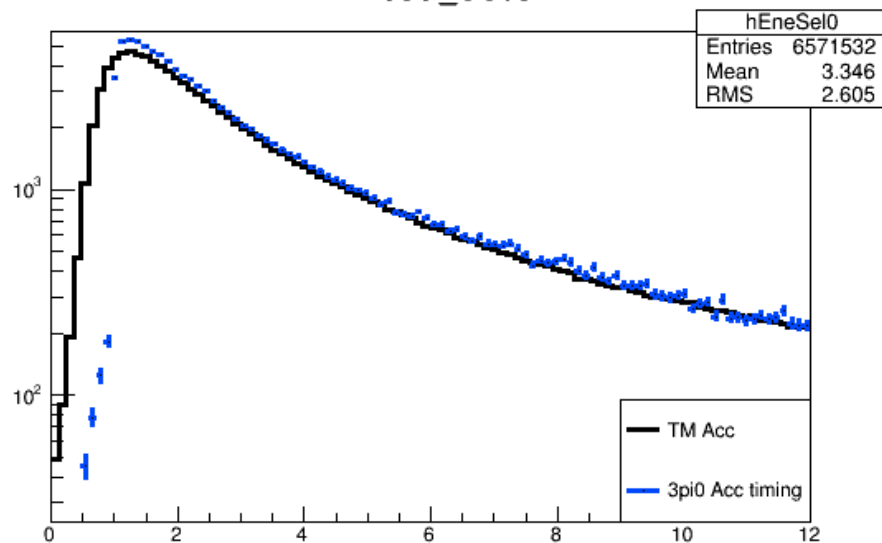
Number of events

$(TMon/3\pi^0) / (TMon_MBCV/3\pi^0_MBCV)$

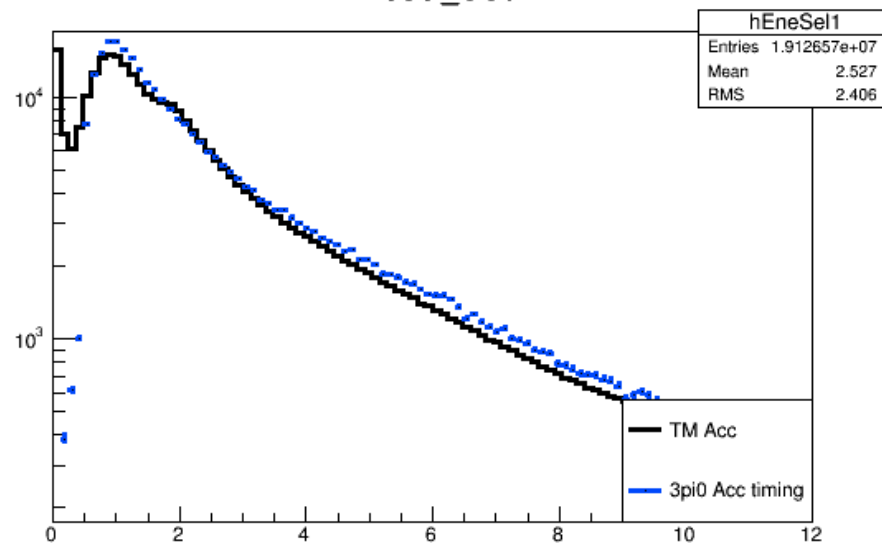


Energy distribution

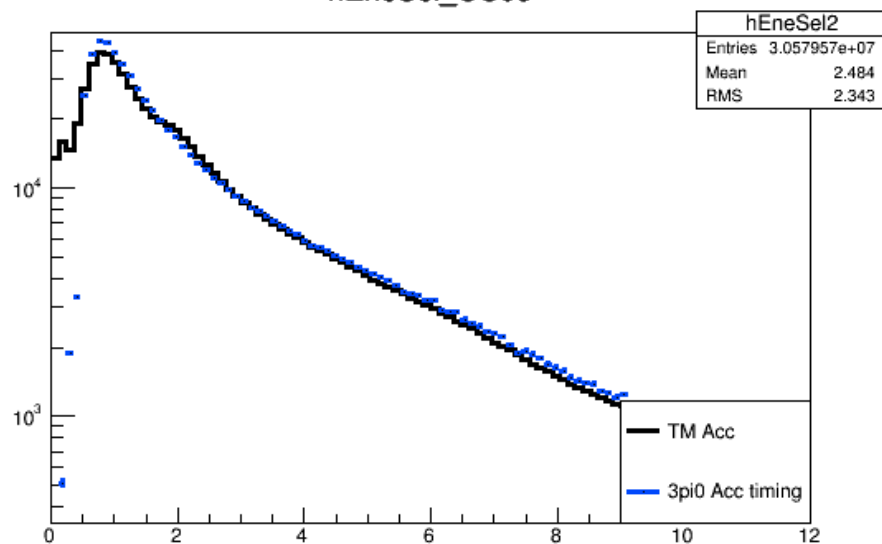
hEneSel_CC03



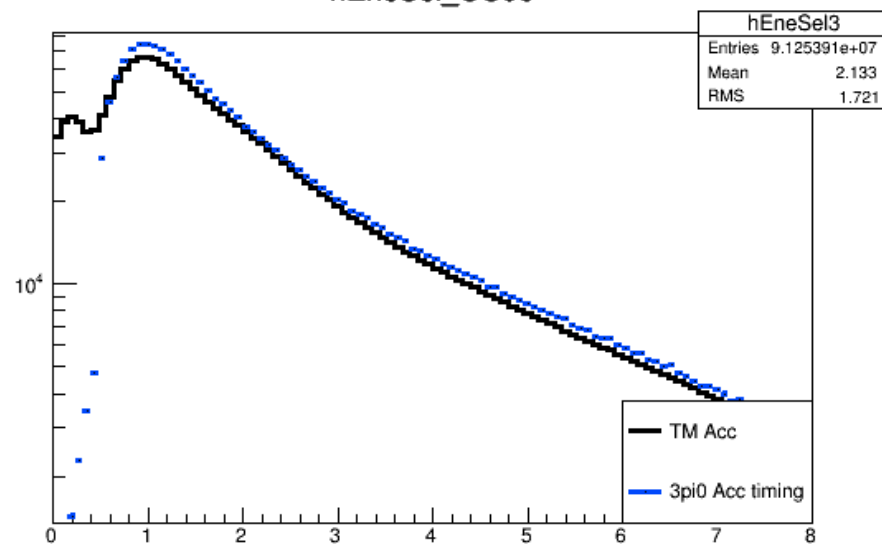
hEneSel_CC04



hEneSel_CC05

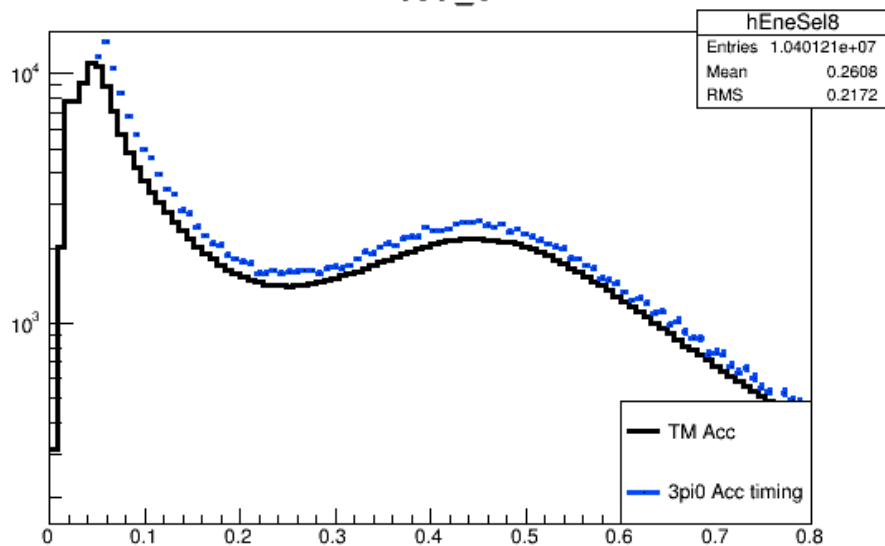


hEneSel_CC06

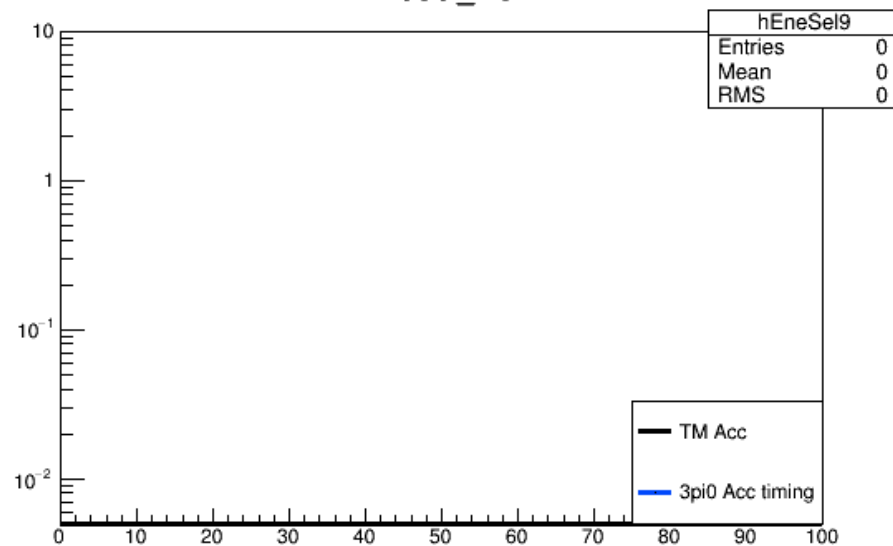


Energy distribution

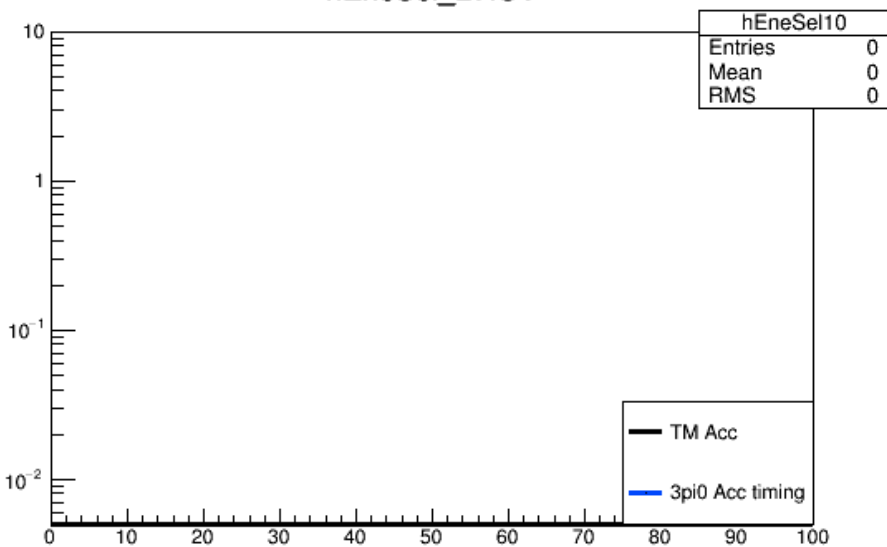
hEneSel_CV



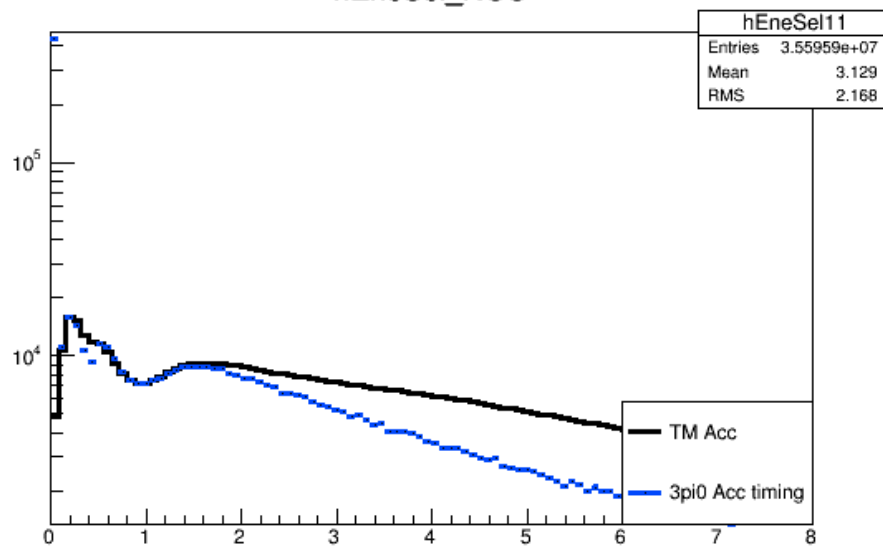
hEneSel_BCV



hEneSel_BHCV

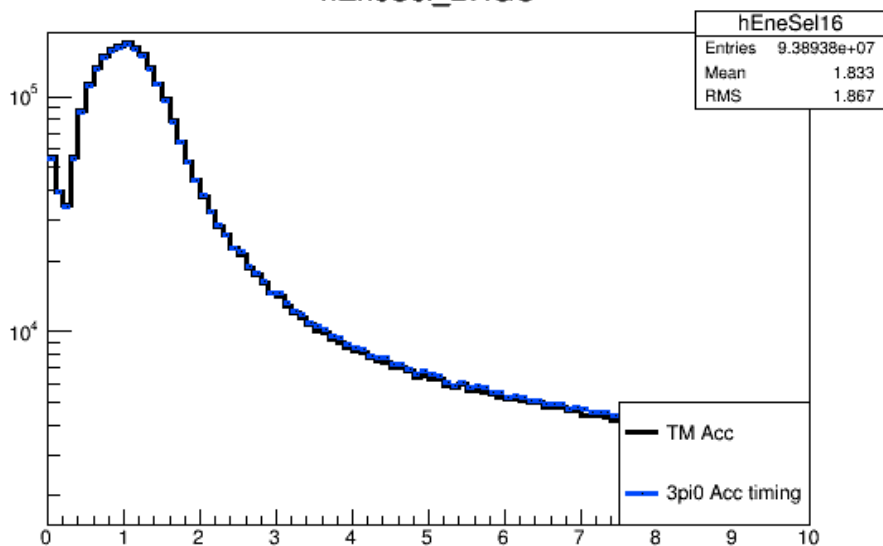


hEneSel_NCC

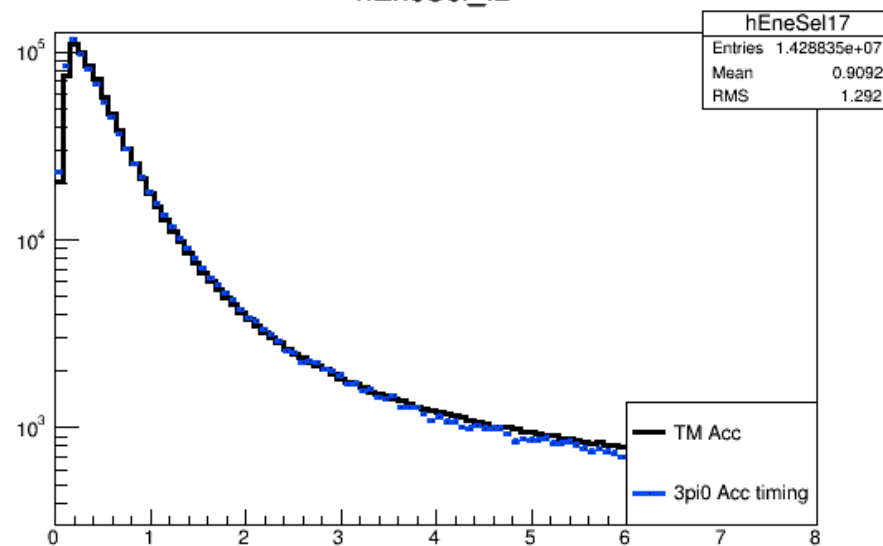


Energy distribution

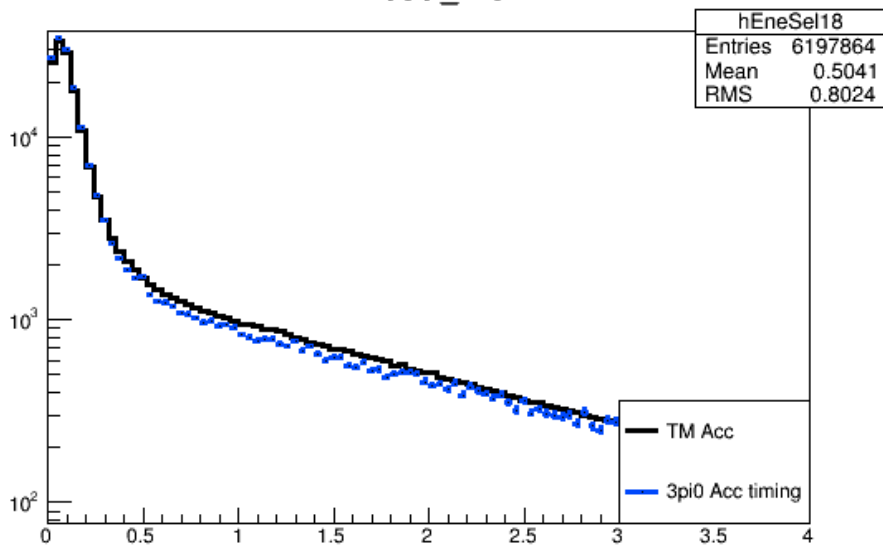
hEneSel_BHGC



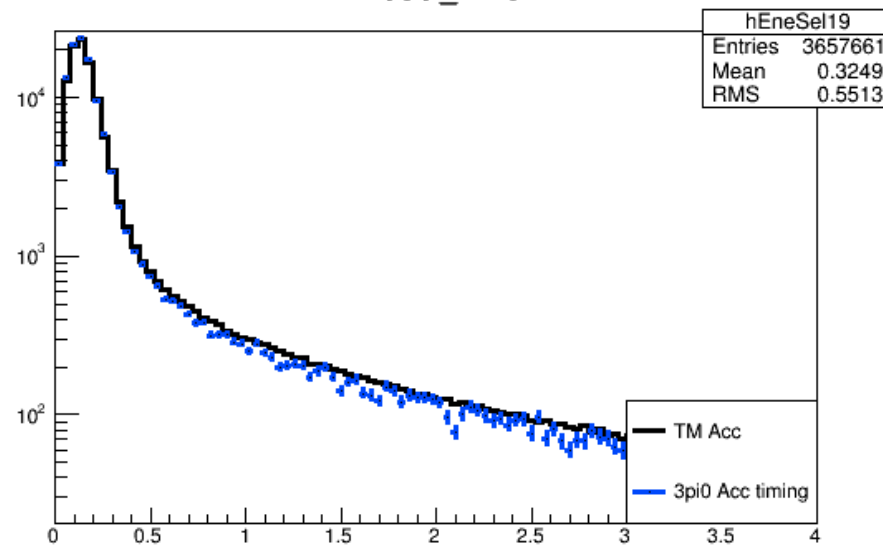
hEneSel_IB



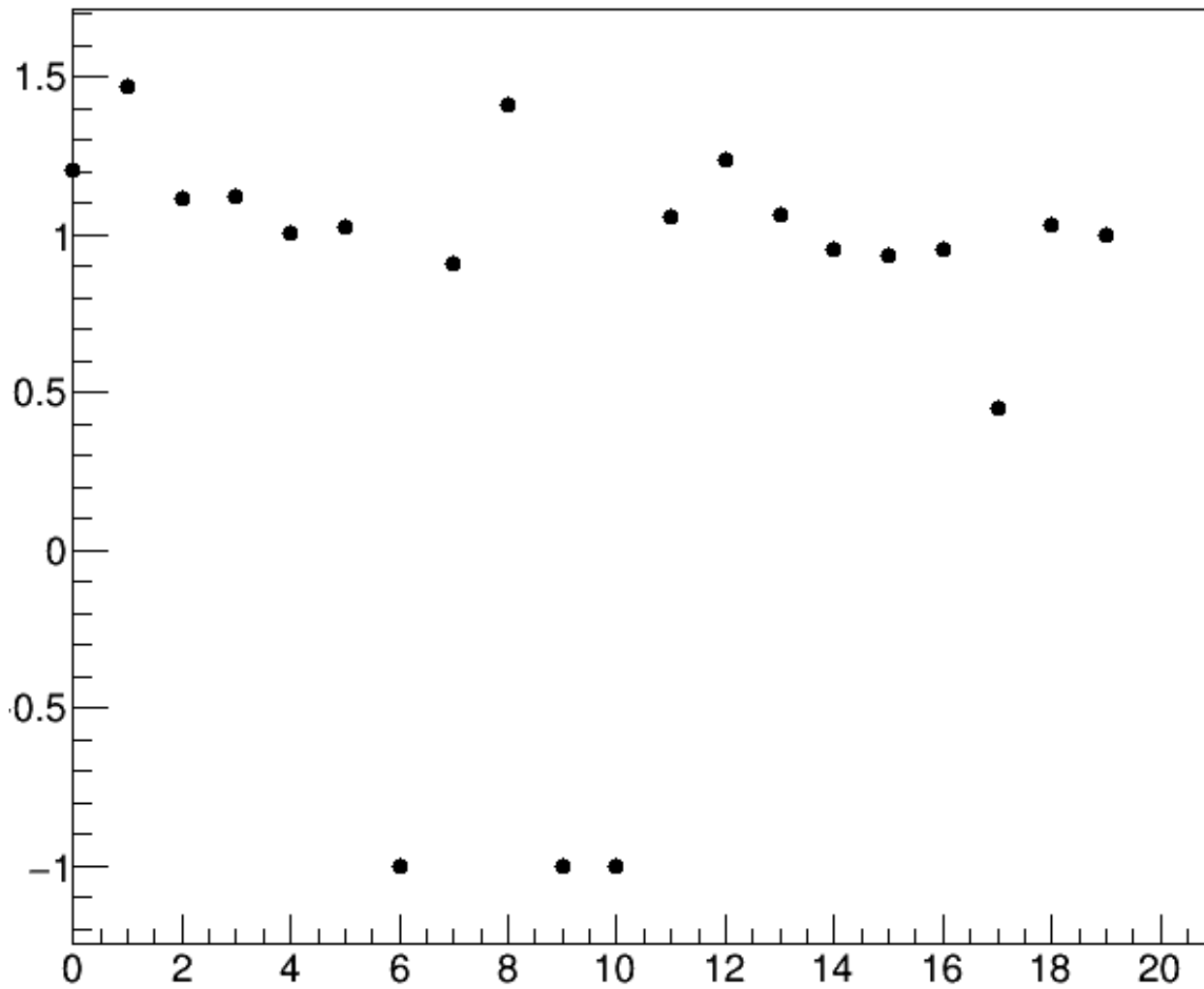
hEneSel_IBCV



hEneSel_MBCV

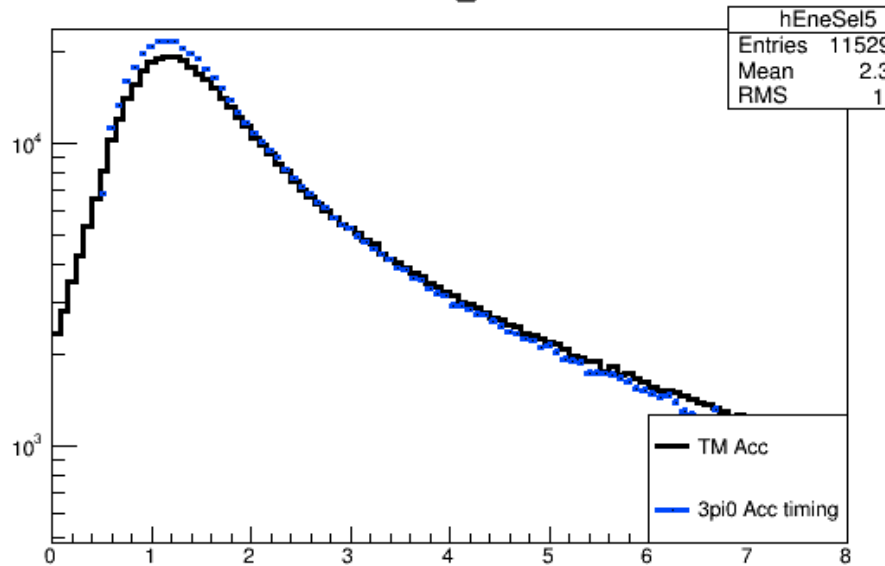


Run78 case

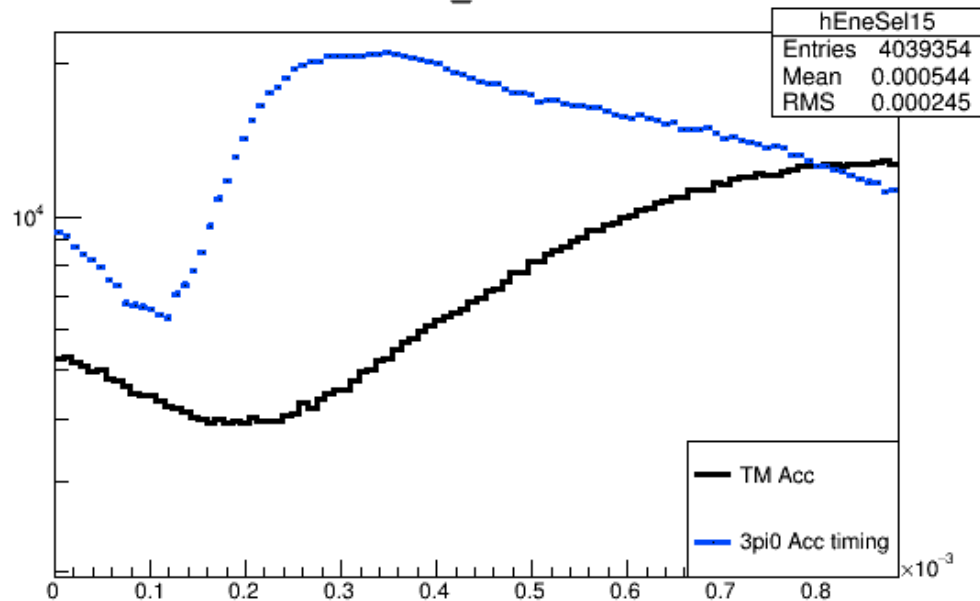


Run78 case

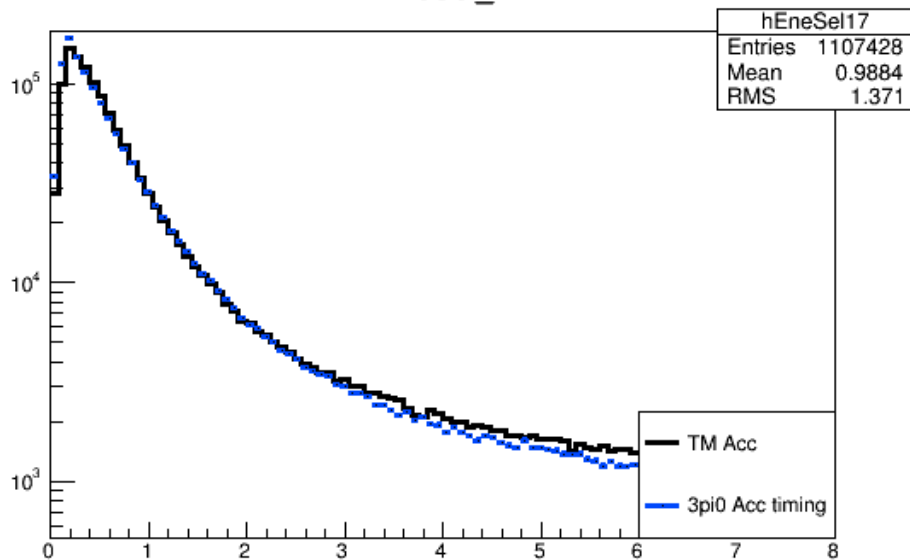
hEneSel_FBAR



hEneSel_newBHCV

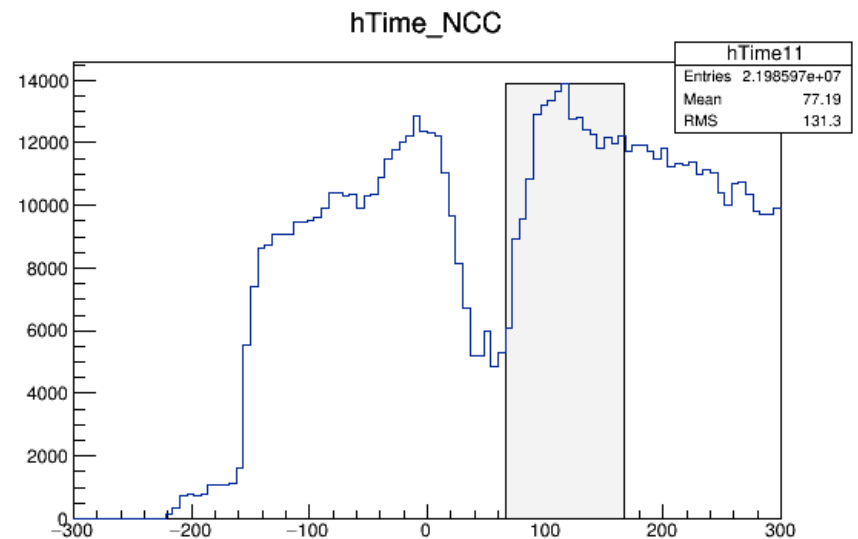
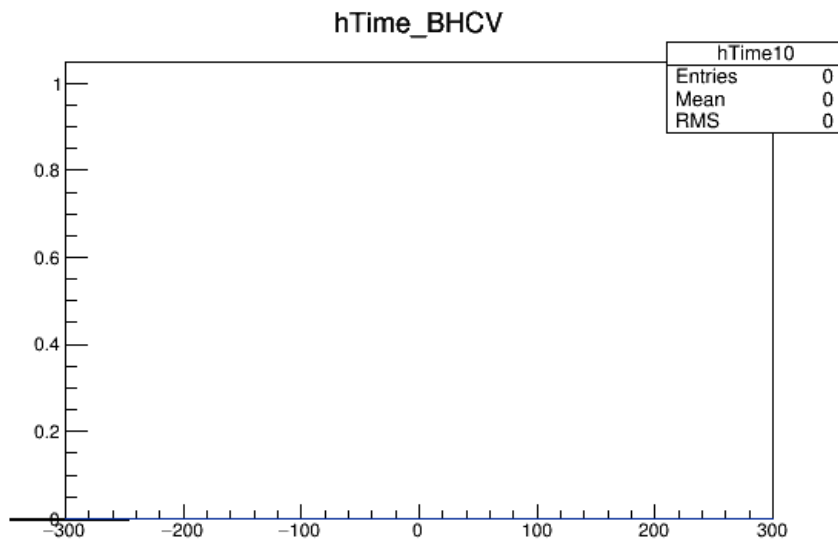
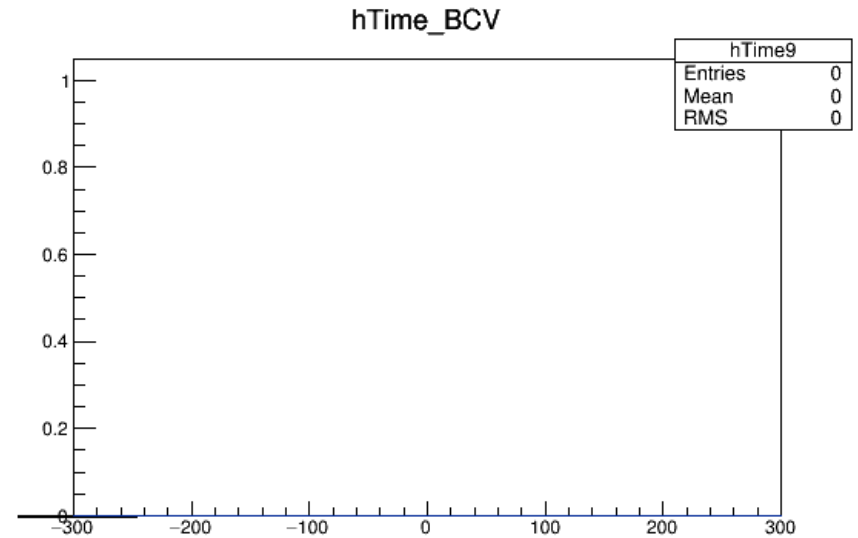
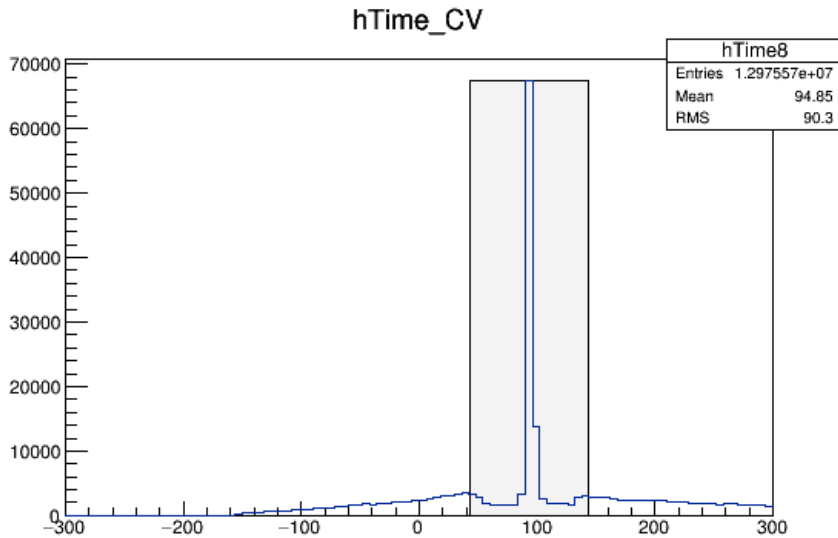


hEneSel_IB



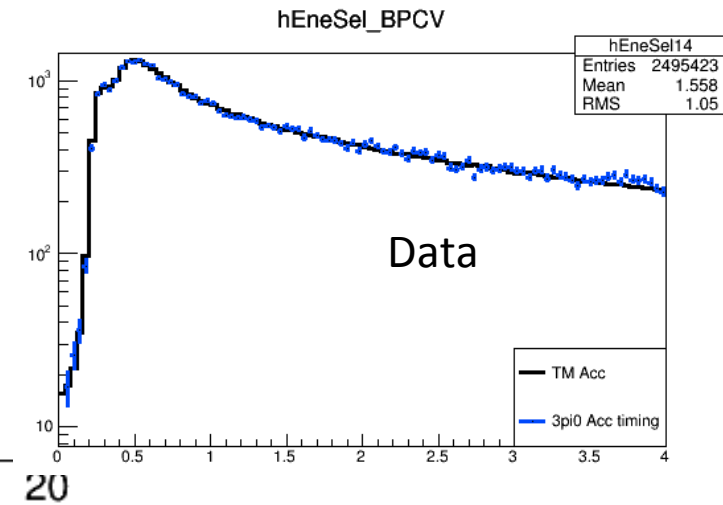
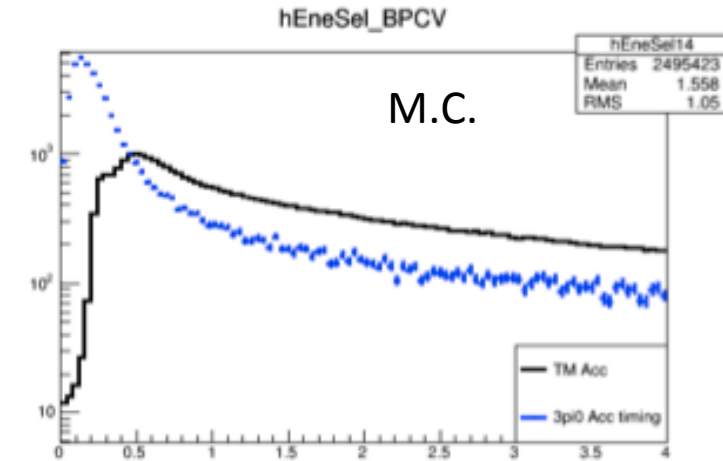
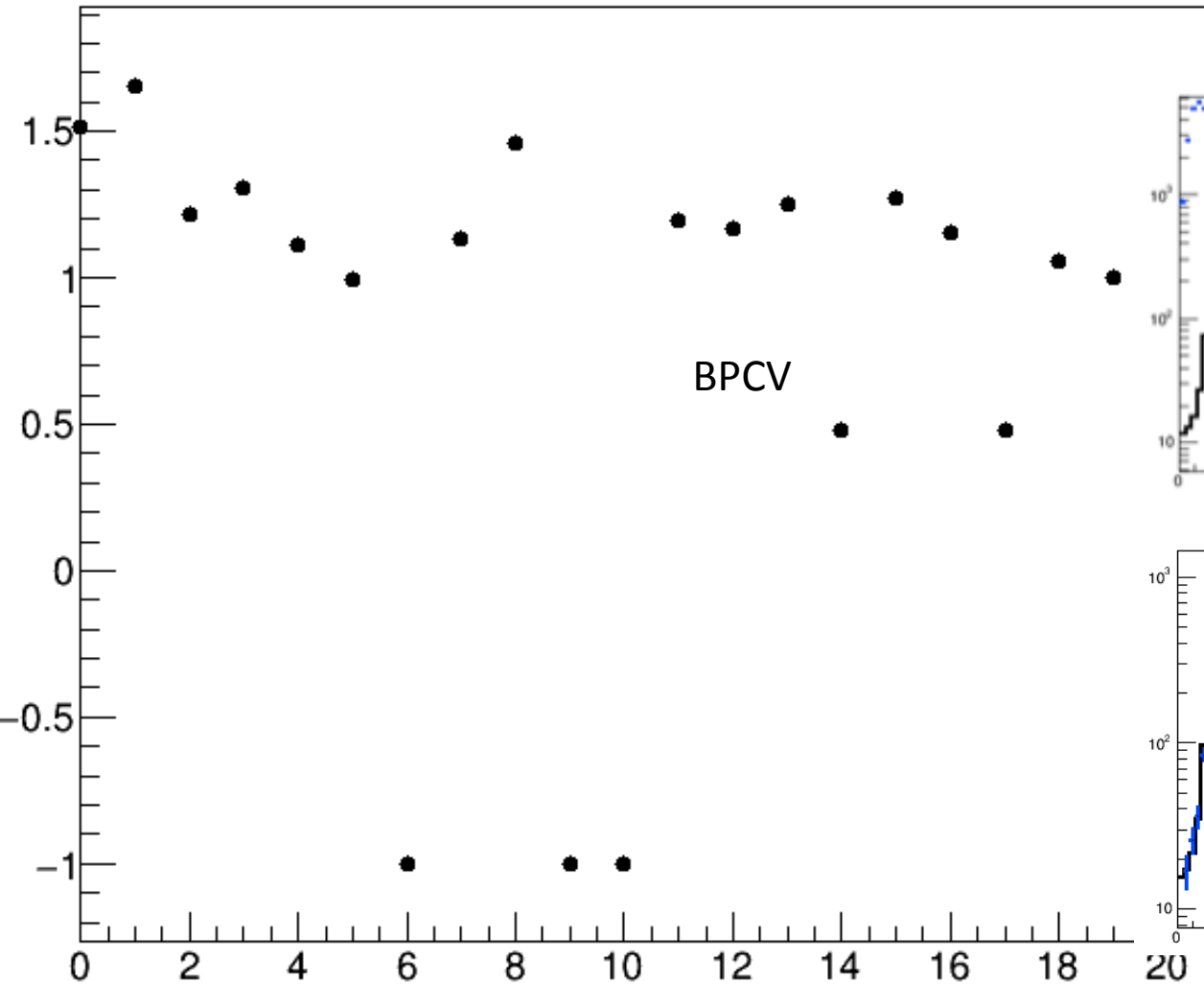
Run74 M.C.

- Timing shift need to be corrected(offset).



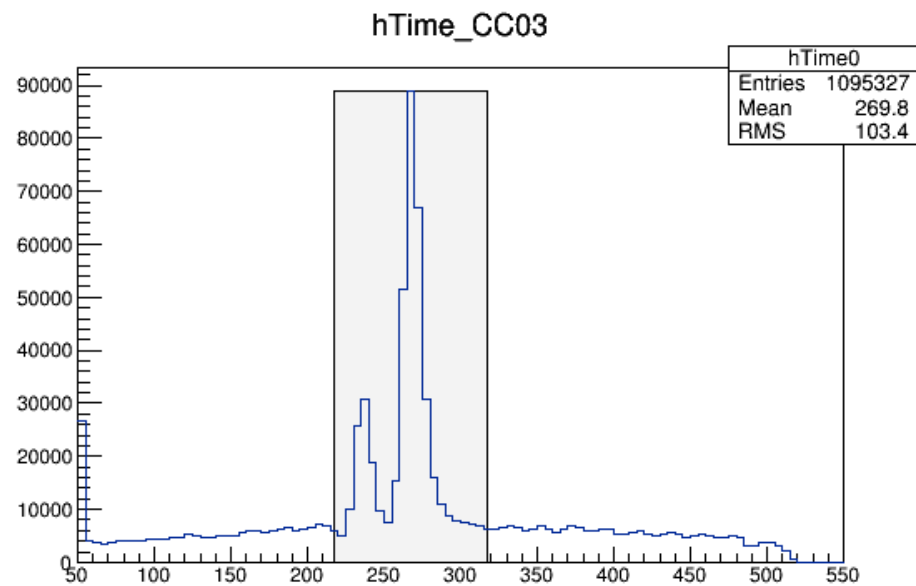
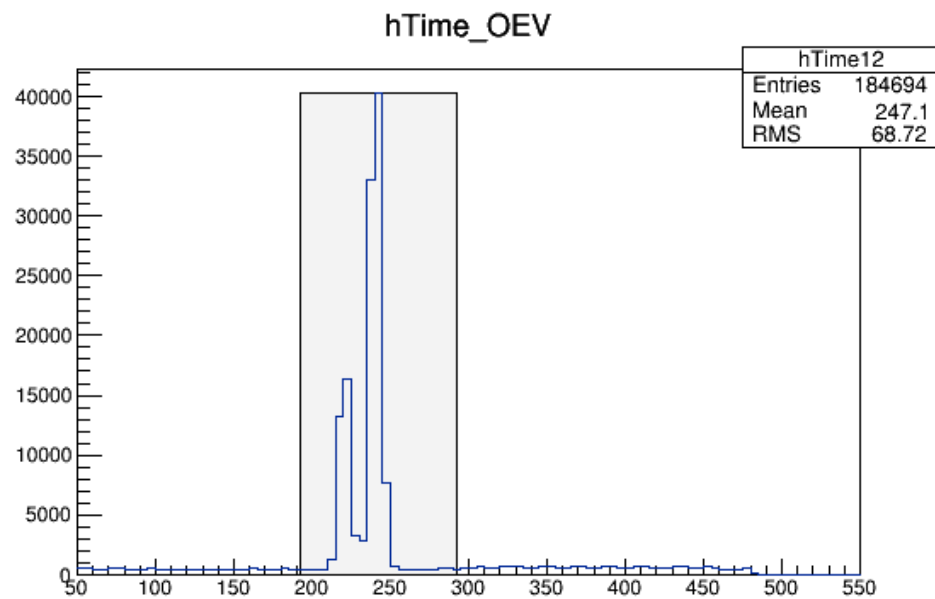
Run 74 M.C.

$(TMon/3\pi0) / (TMon_MBCV/3\pi0_MBCV)$



Run78

Find Csl trig timing



Run78 M.C.

hTime_CC03

