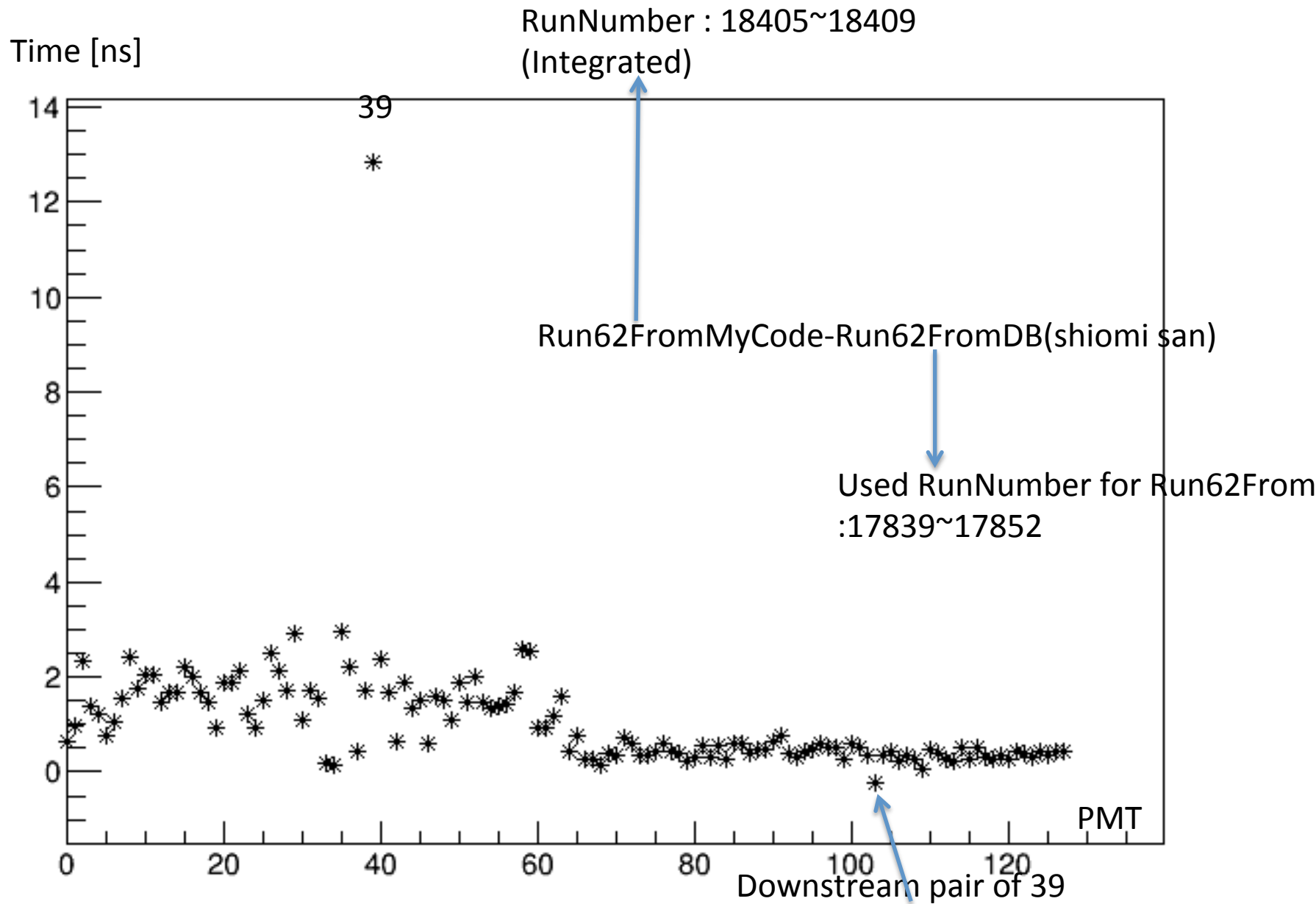


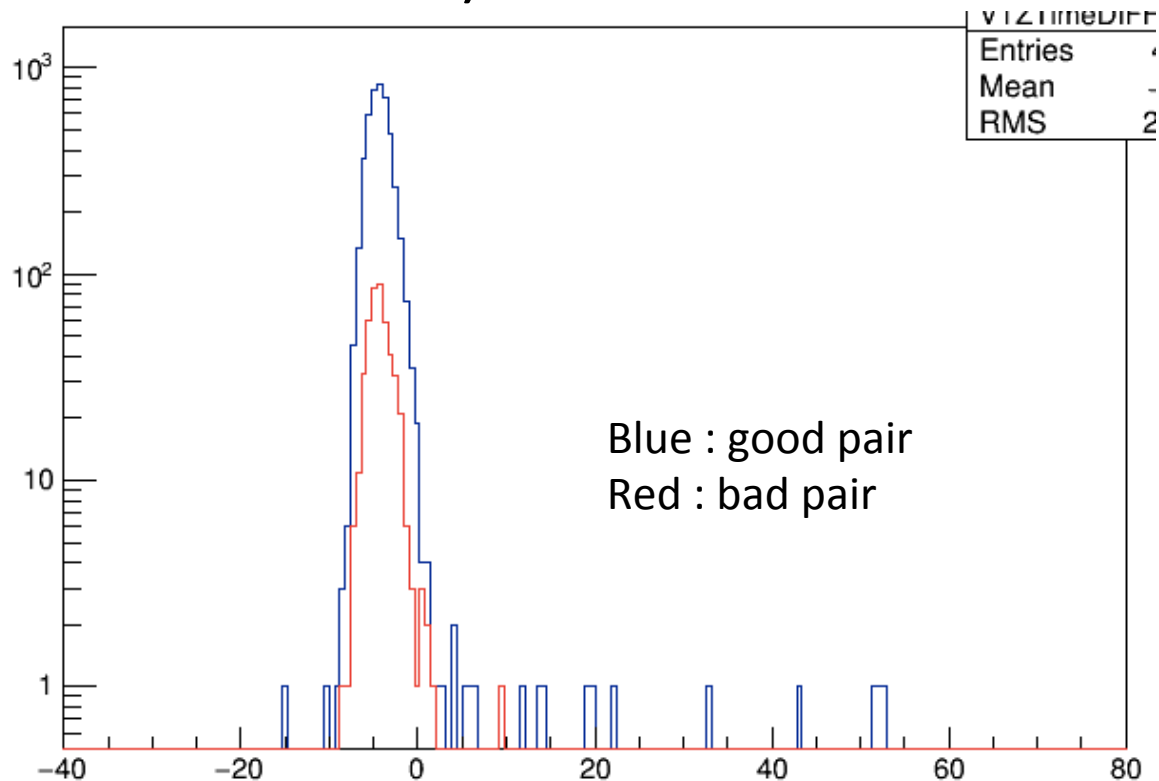
Report_161206

Run62 Calibration

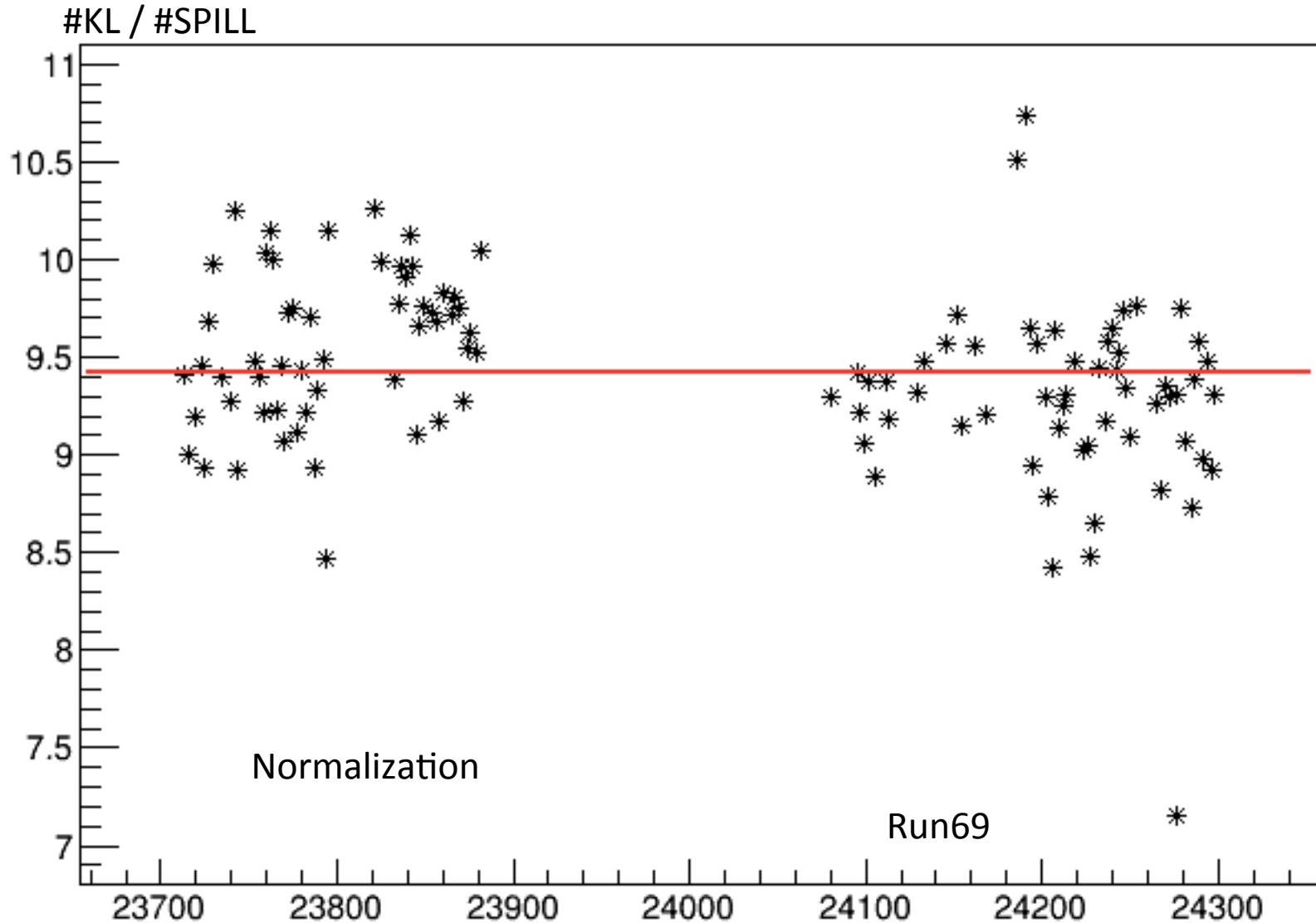


Calibration check with Vertex Time

- After applying all kinematical cut,
 - Distribution of (Mean Vertex GammaTime – MBVertexTime)



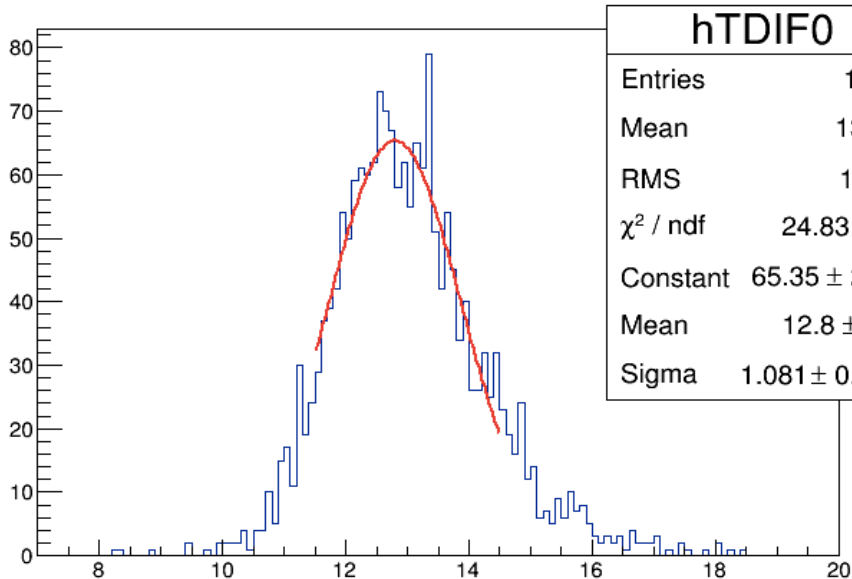
Run Stability of 5g+1g



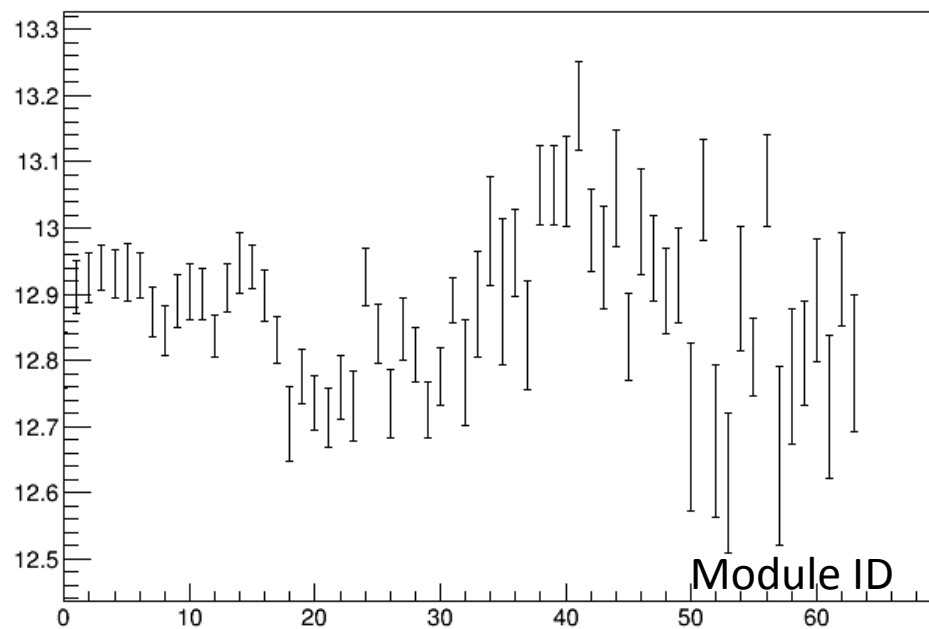
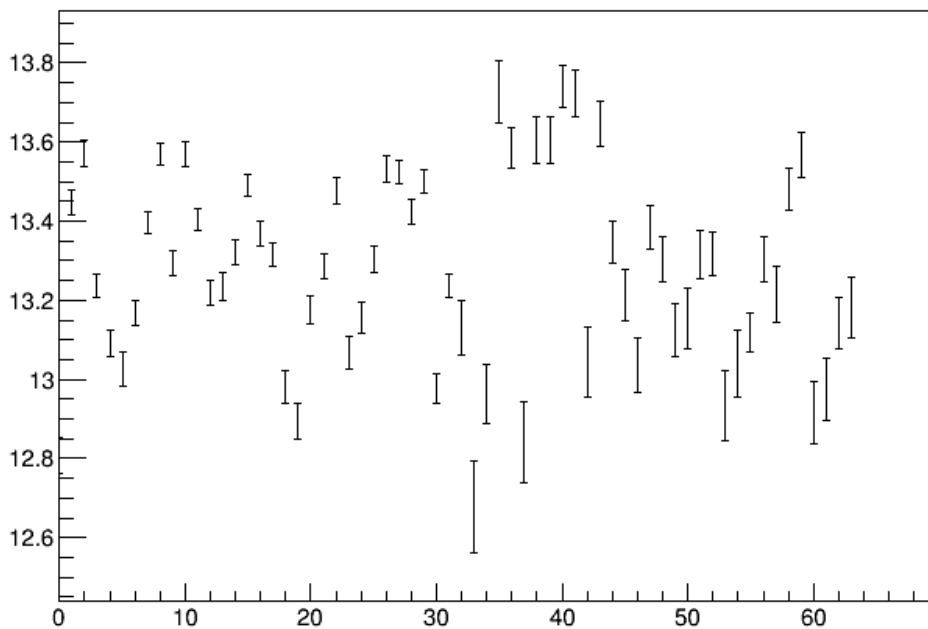
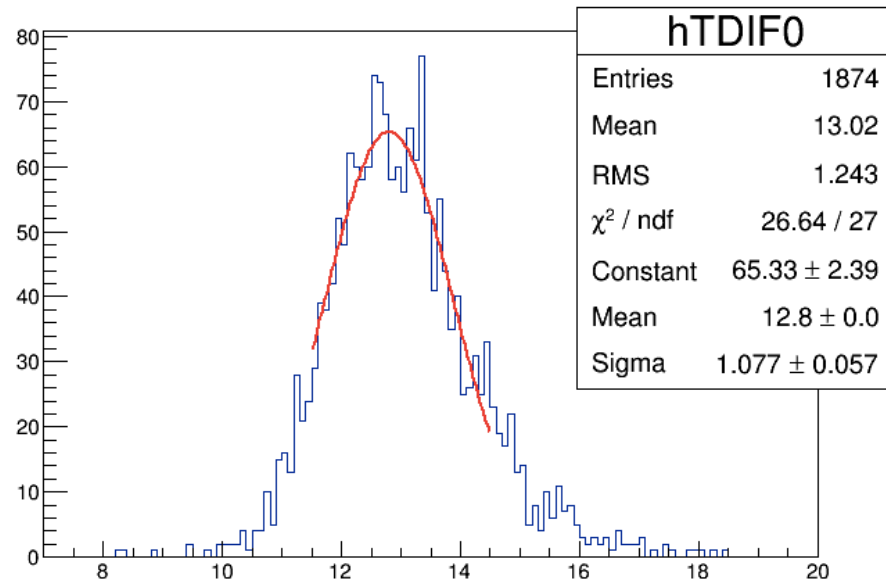
My Calibration comparison

DB Calibration

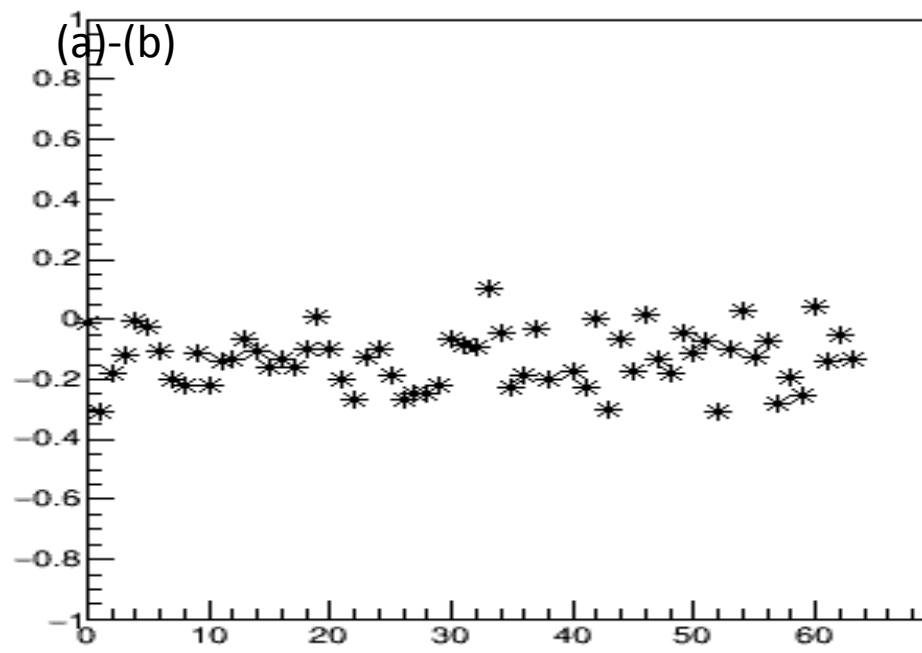
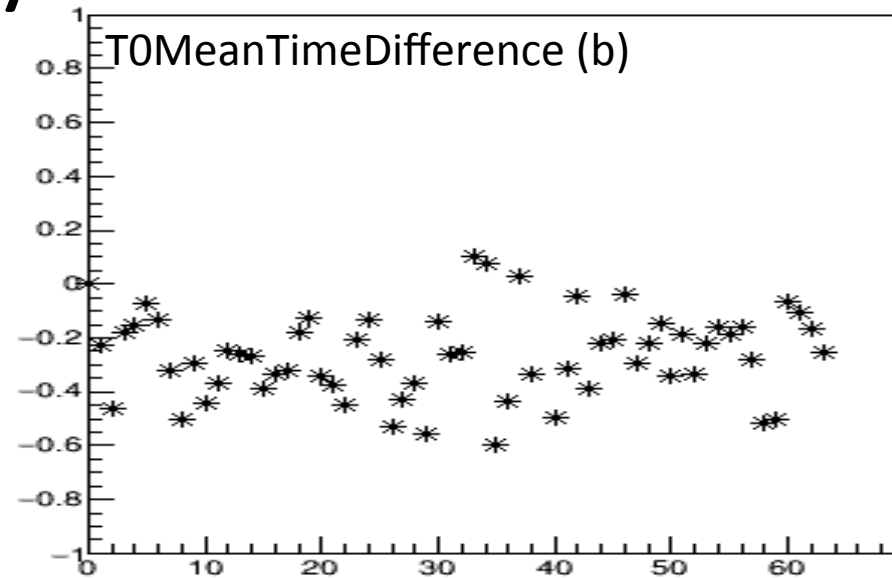
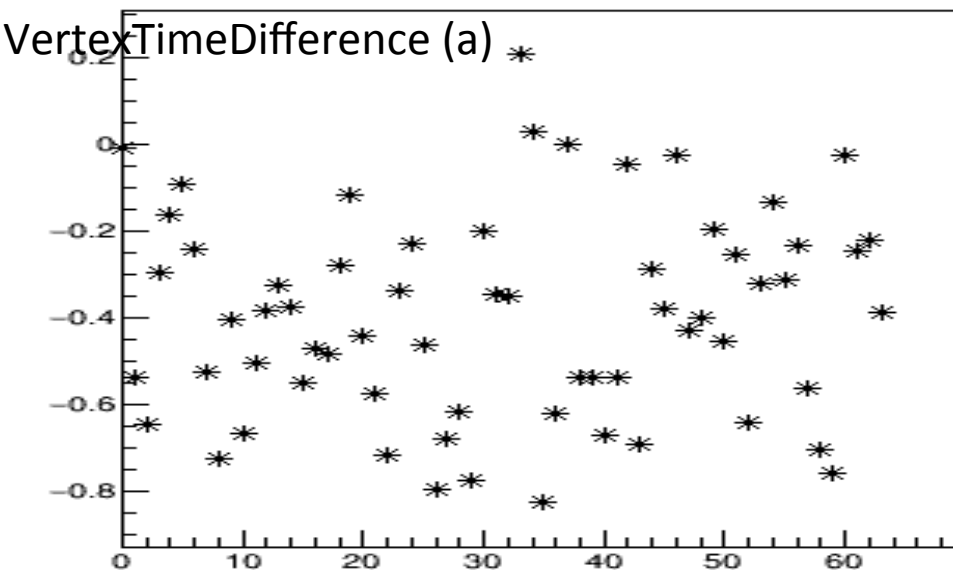
hTDIF0



hTDIF0

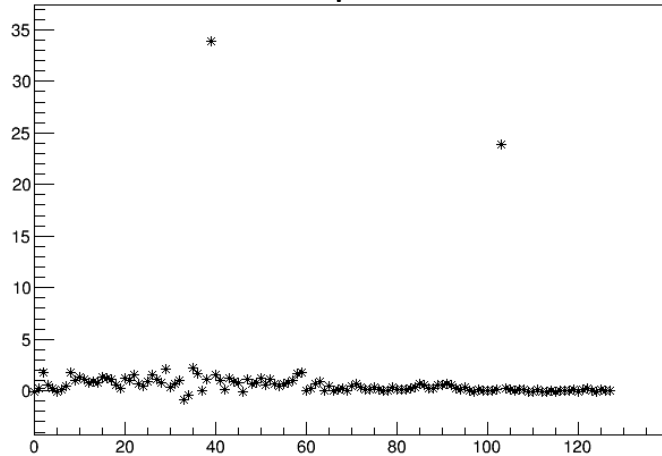


Vertex Time Difference between DB - MyCalib

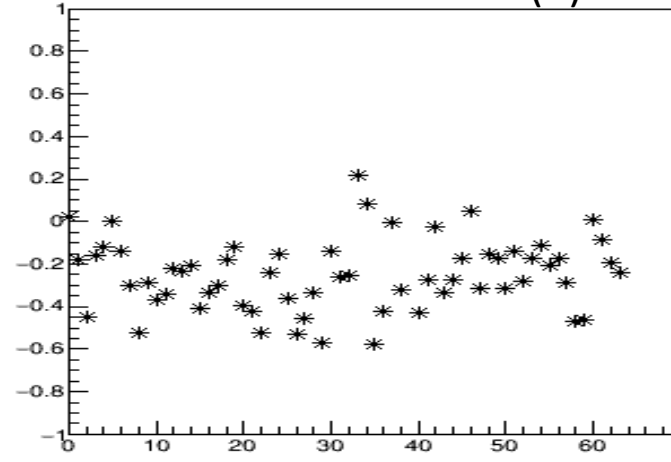


Run64 (DB-MyCalib)

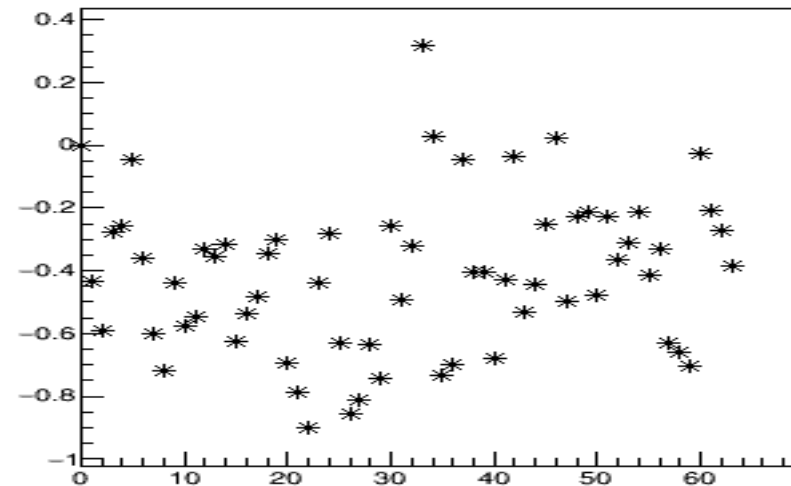
Calibration Comparison



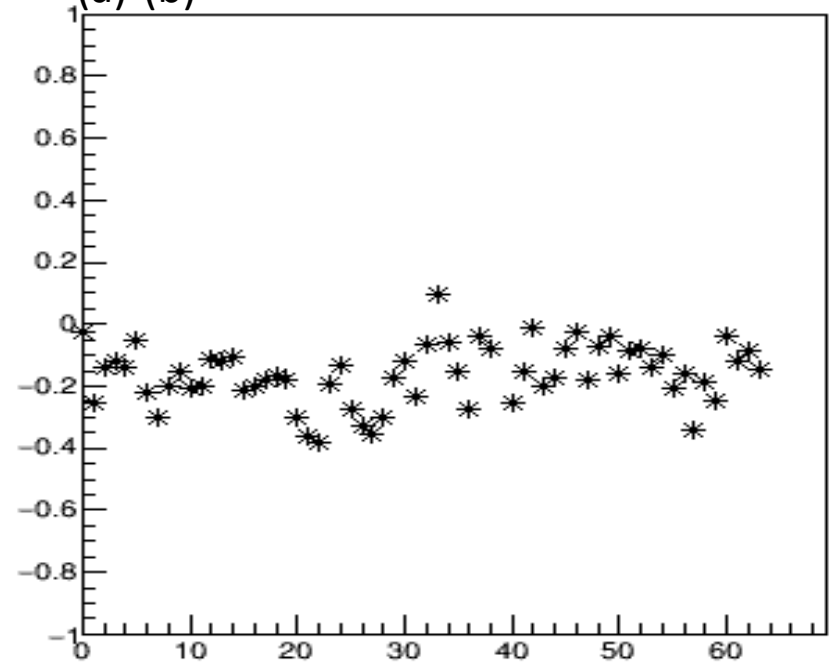
T0MeanTimeDifference (b)



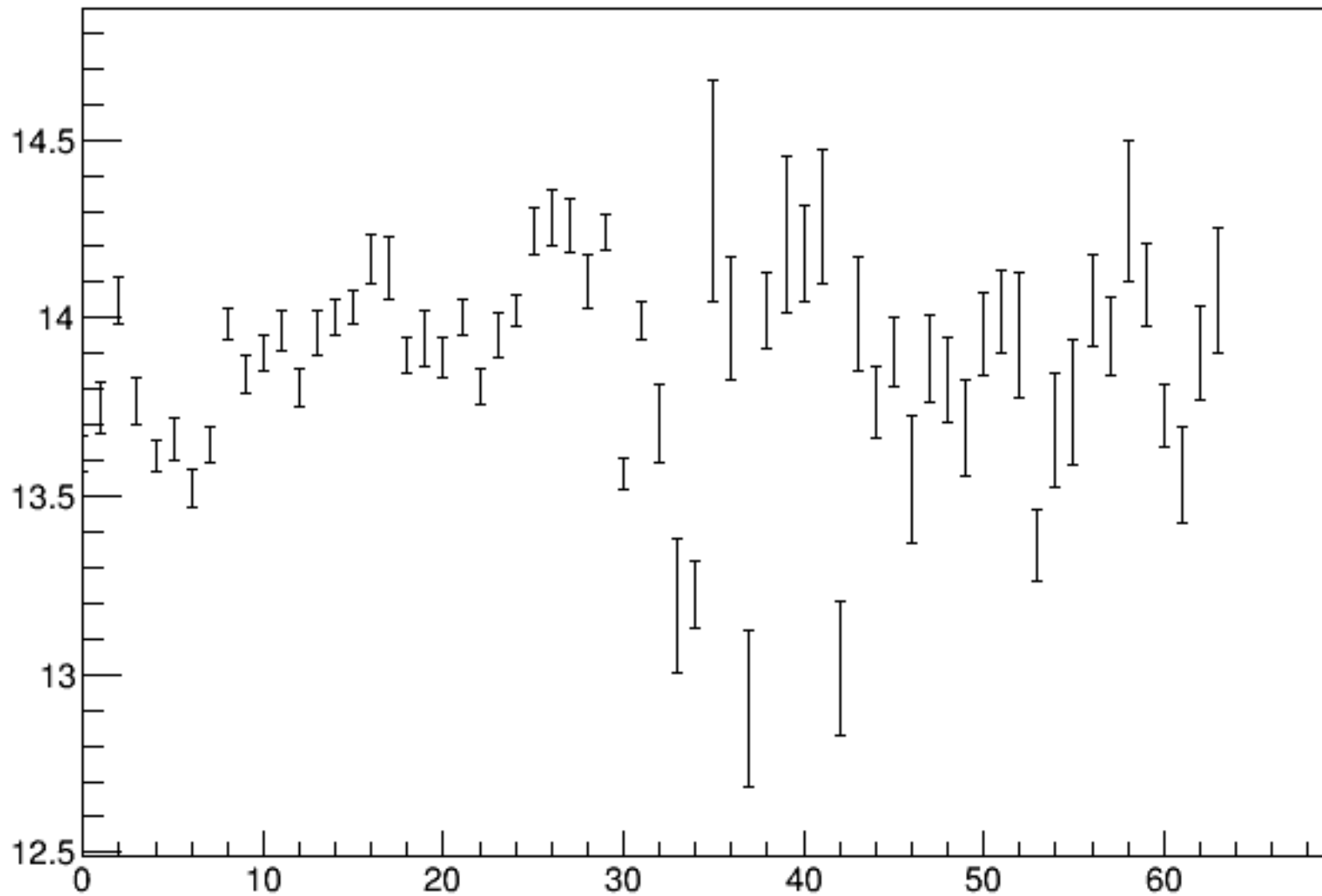
VertexTimeDifference (a)



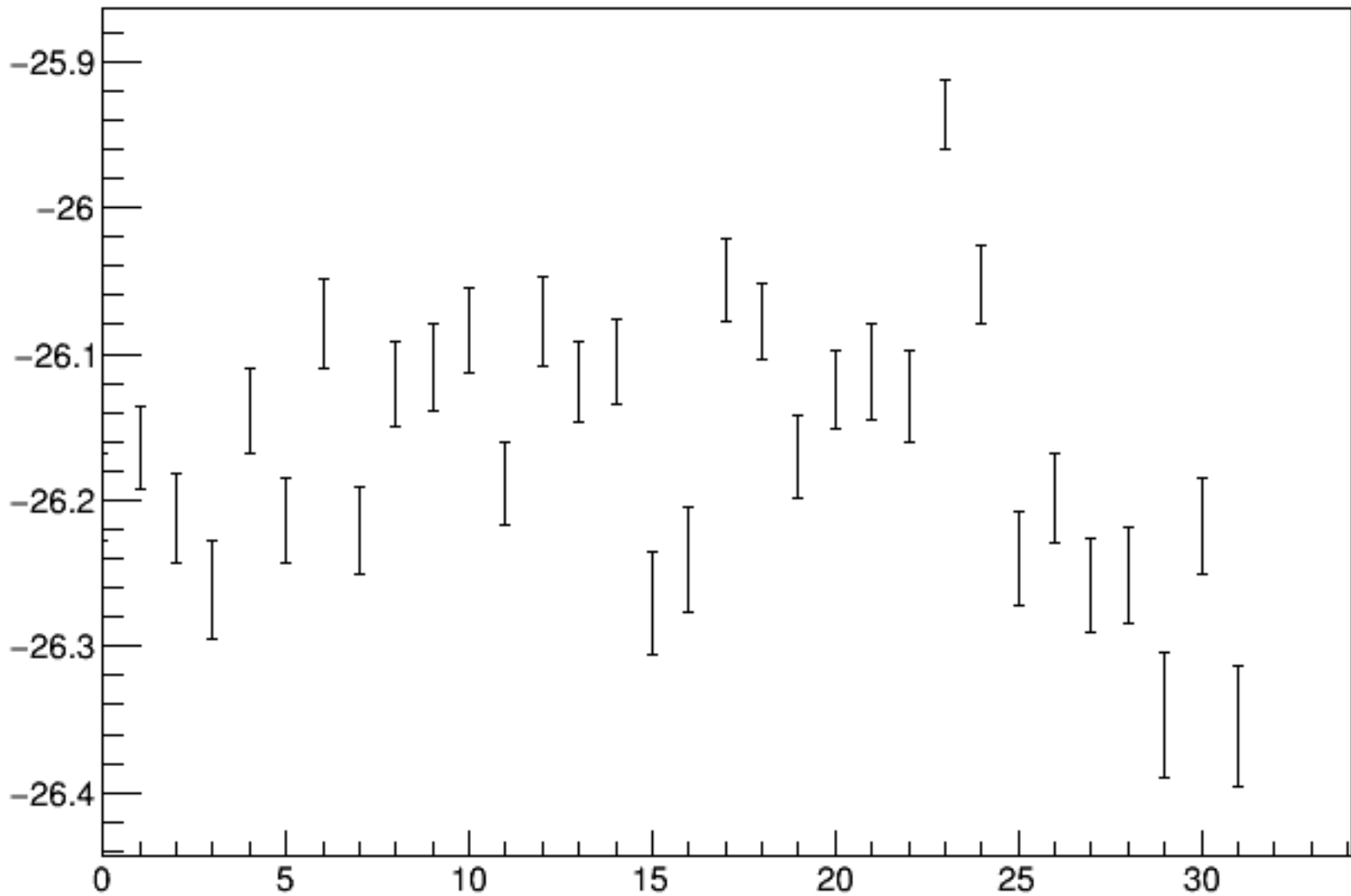
(a)-(b)



Run69 MB

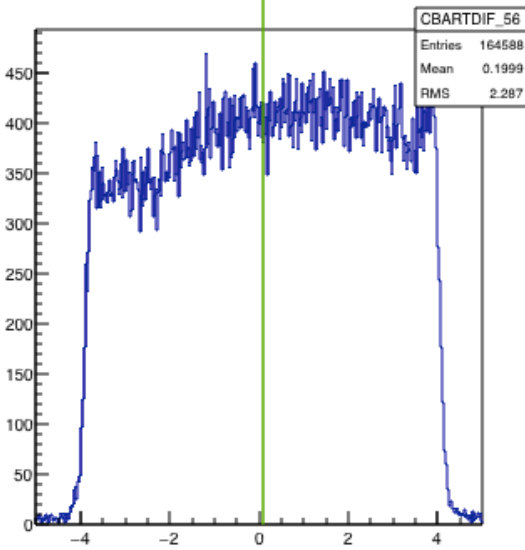


Run69 IB

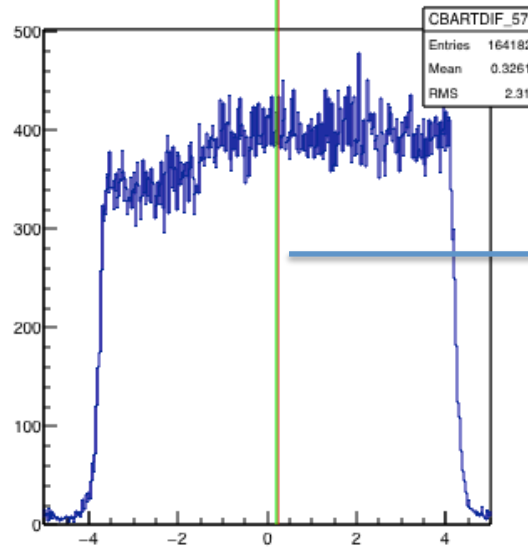


HitZ comparison (Time difference)

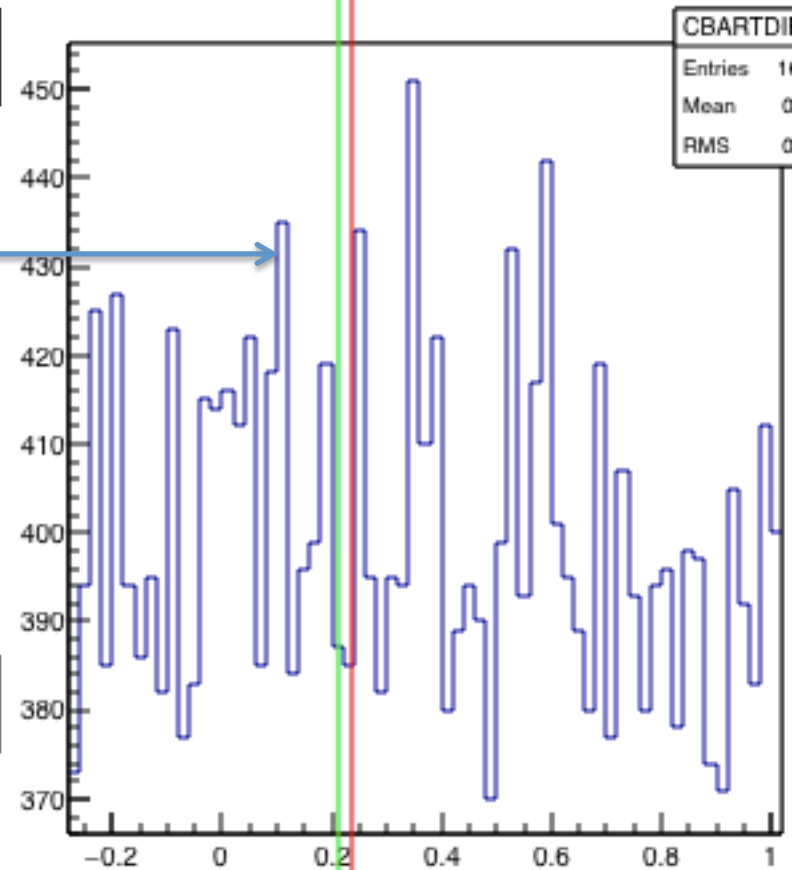
CBARTDIF / ModID : 56



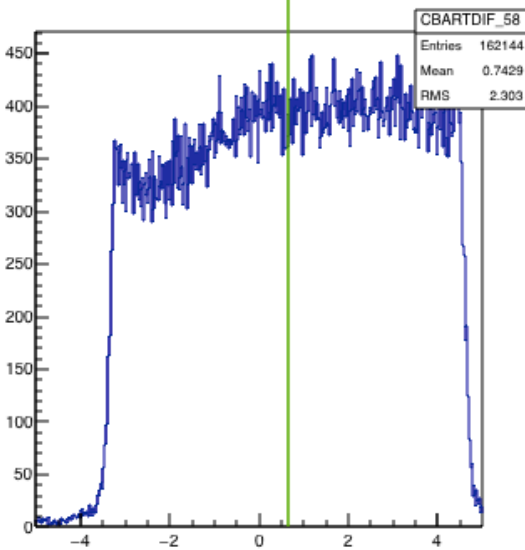
CBARTDIF / ModID : 57



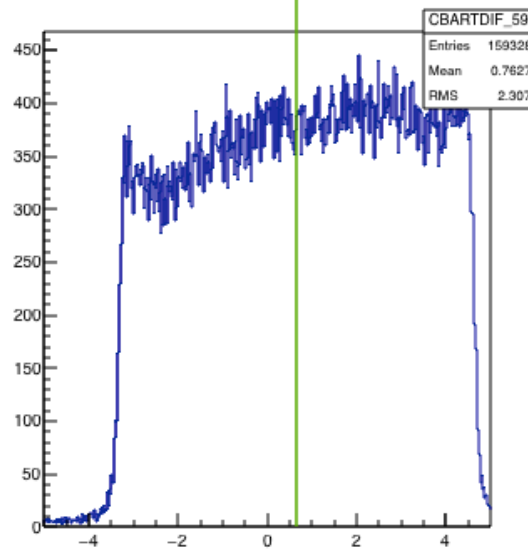
CBARTDIF / ModID : 57



CBARTDIF / ModID : 58



CBARTDIF / ModID : 59



Red : My estimation
Green : Run62 DB

Energy Time of All veto with Trig==257

BCV

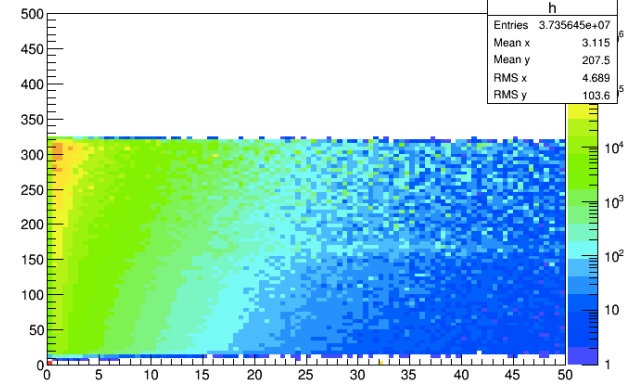
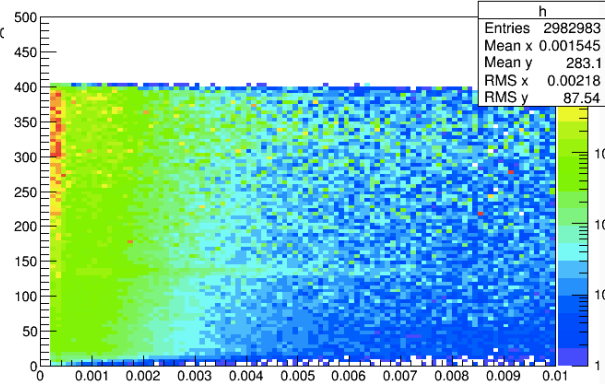
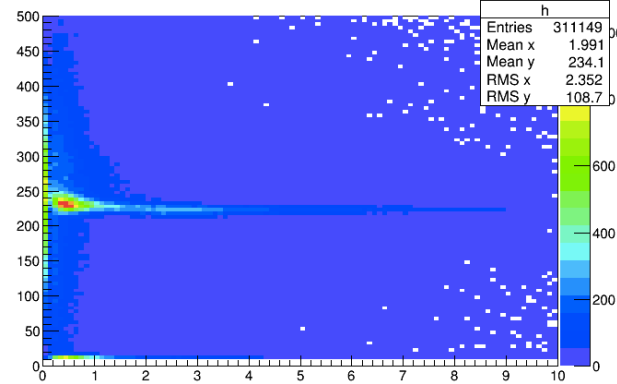
newBHCV

BHPV

BCVt0:BCVeneCor {Strig==257}

newBHCVTime:newBHCVene {Strig==257&&newBHCVnHits>0&&newBHCVene>0}

BHPVTime:BHPVene {Strig==257&&BHPVnHits>0&&BHPVene>0}



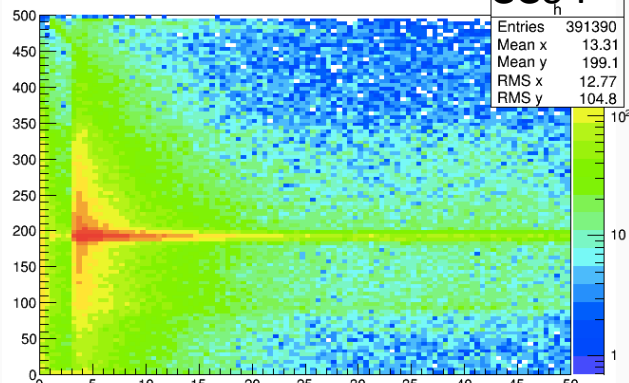
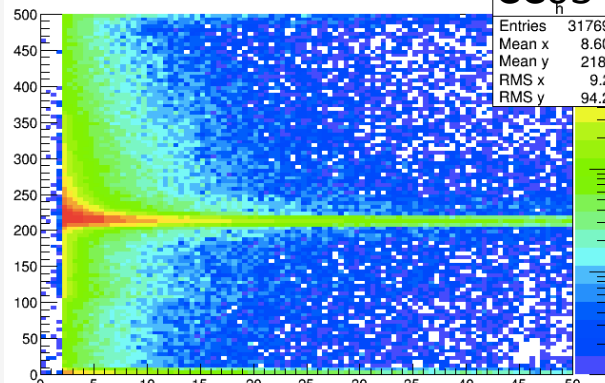
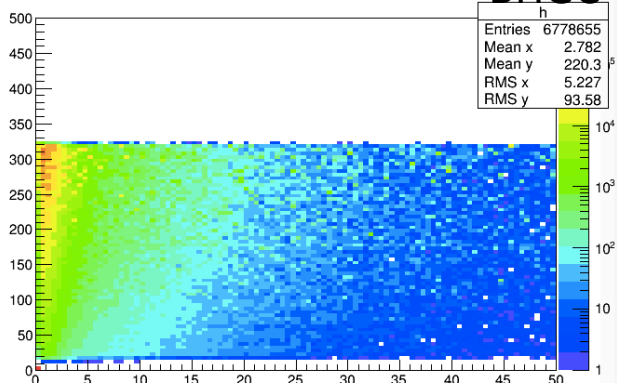
BHGTime:BHGene {Strig==257&&BHGCnHits>0&&BHGCene>0}

CC03t0:CC03ene {Strig==257}

CC03

CC04t0:CC04ene {Strig==257}

CC04



CC05t0:CC05ene {Strig==257}

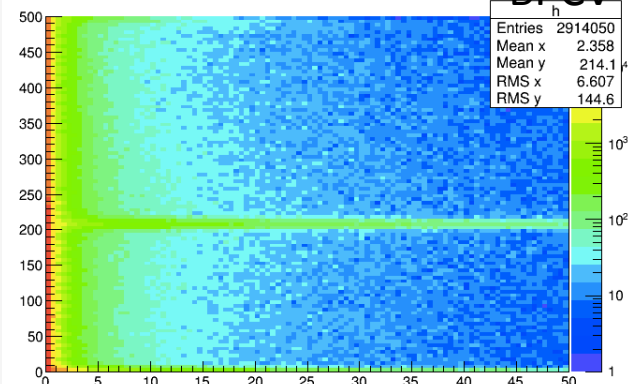
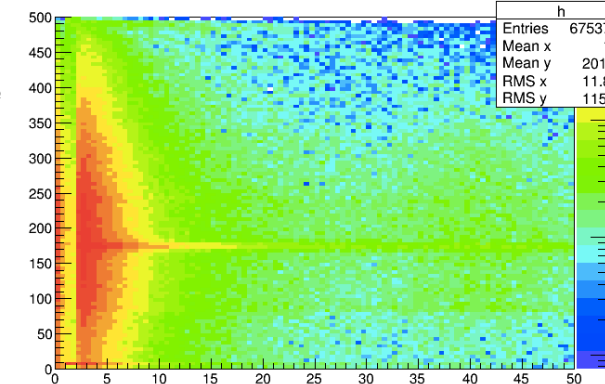
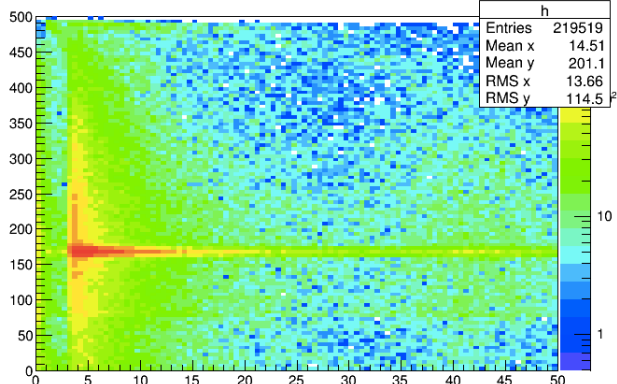
CC05

CC06t0:CC06ene {Strig==257}

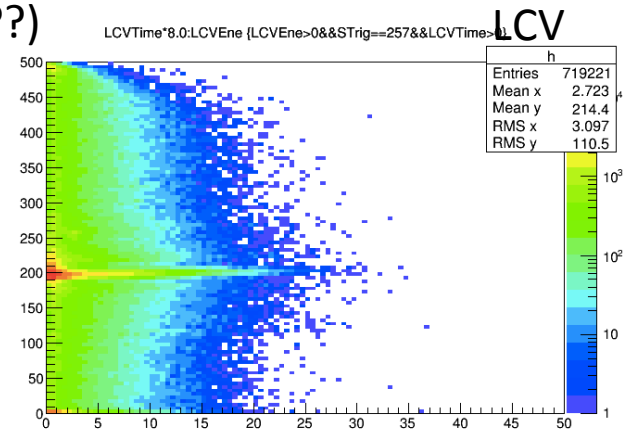
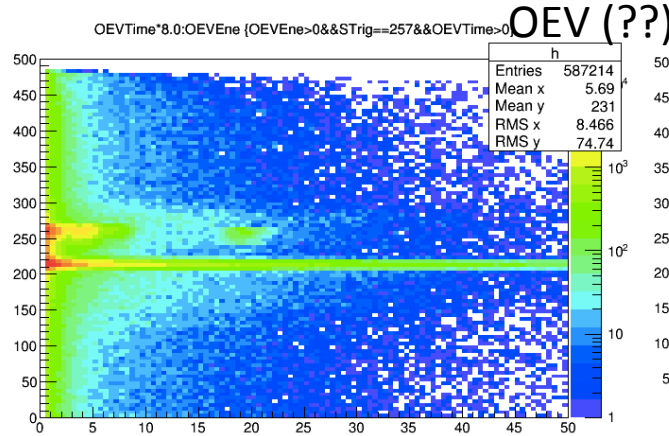
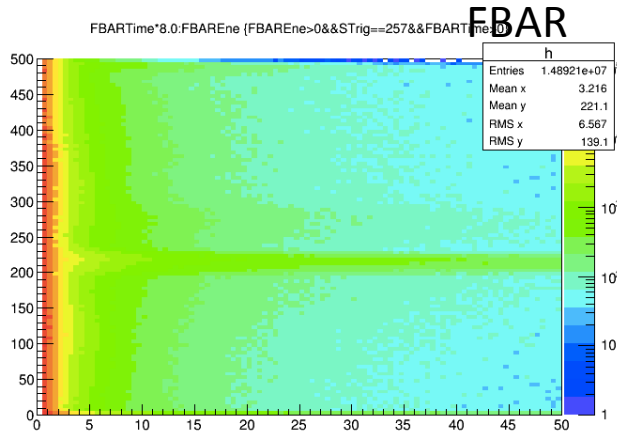
CC06

BPCVTime*8.0:BPCVene {BPCVene>0&&Strig==257&&BPCVTime>0}

BPCV



Energy Time of All veto with Trig==257



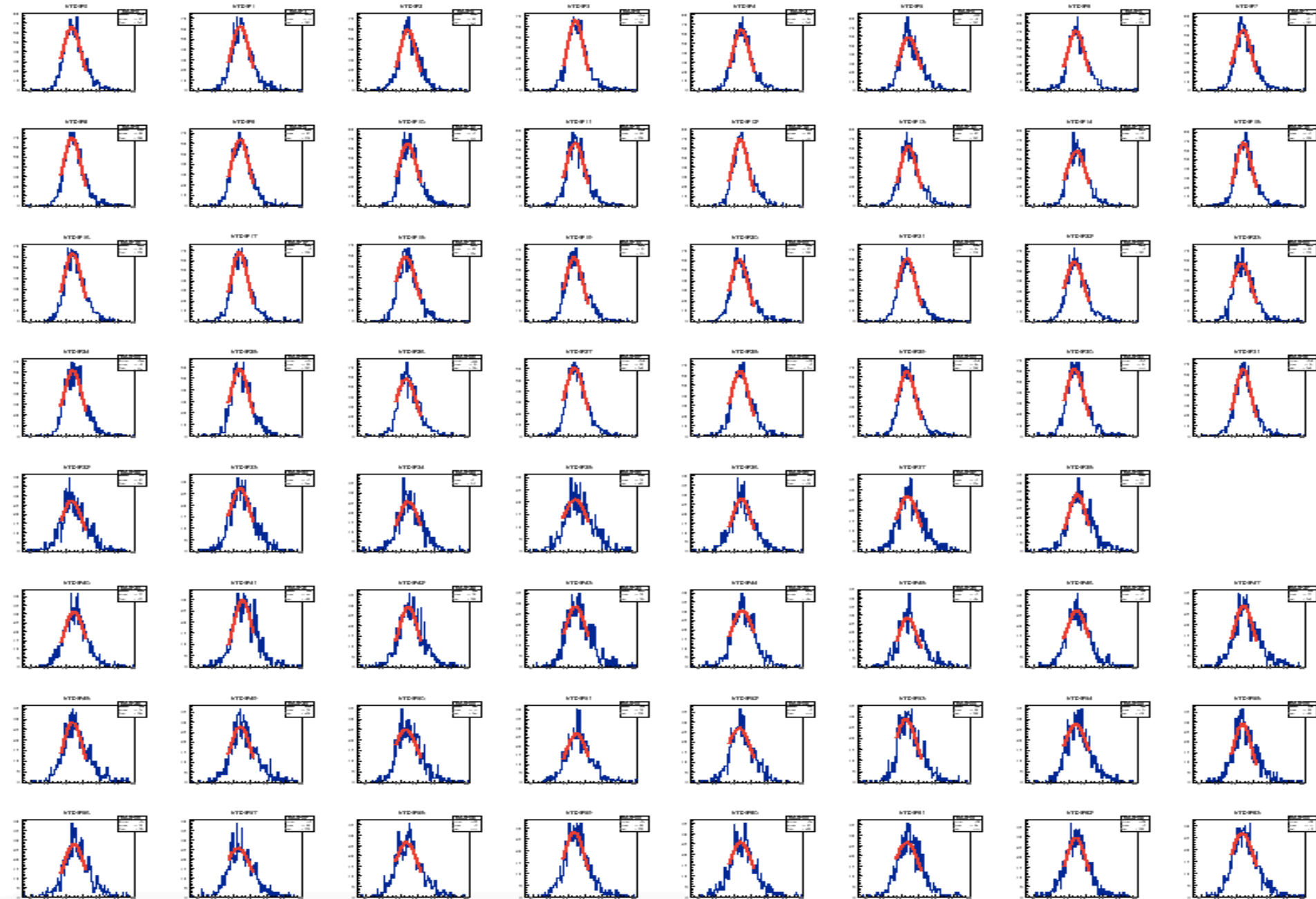
Detector	Energy Thres.	Time window
BCV	0.25	200,250
newBHCV	0.00025	70,100
BHPV	0.4	150,180
BHGC	0.25	??(not applied)
CC03	3	200,240
CC04	3	170,220
CC05	3	150,180
CC06	3	160,200
BPCV	2	190.220

Detector	Energy Thres.	Time window
FBAR	3	190,240
OEV	2	200,270 (??)
LCV	0.5	180,230
CV		
NCC		
	MeV	ns

Summary

- All detector veto will be applied
 - Undergoing...
 - No time peak in BHGC
 - Two time peak in OEV
- Check Internal correction
 - Almost same between Run62DB and MyCalib
- Problem in Module Correction?
 - 1) Get mean time difference between modules
 - i_th mean time – j_th mean time
 - Fit mean time difference with gaussian
 - 2) chi2 estimation, minimization(TMinuit in ROOT, same as shiomi san's)
 - i_th mean time – j_th mean time = $ToF_{ij} + OFFset_i - OFFset_j$

Fitting All, Run62



Fitting All, Run69

