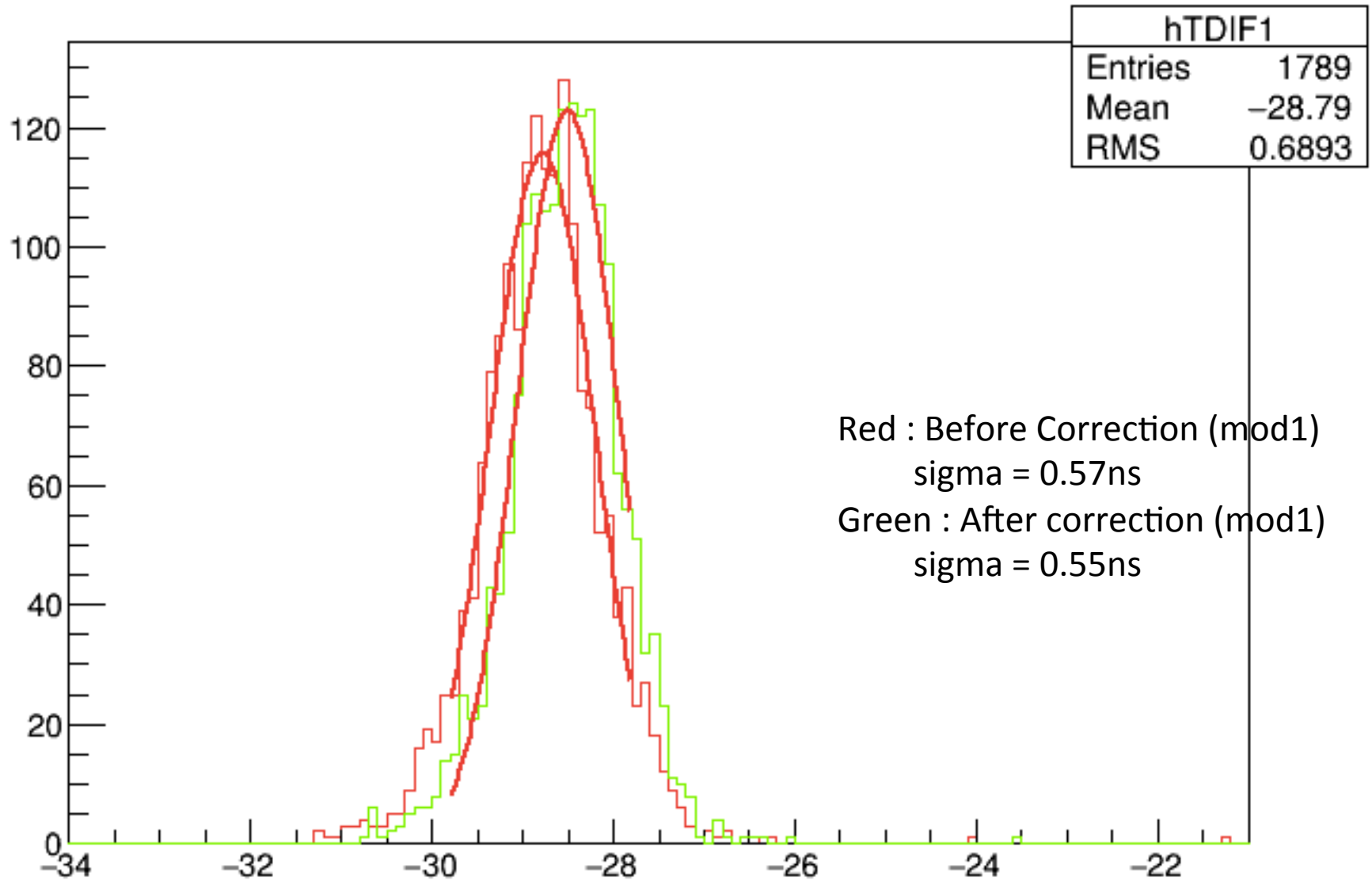


Time Correction

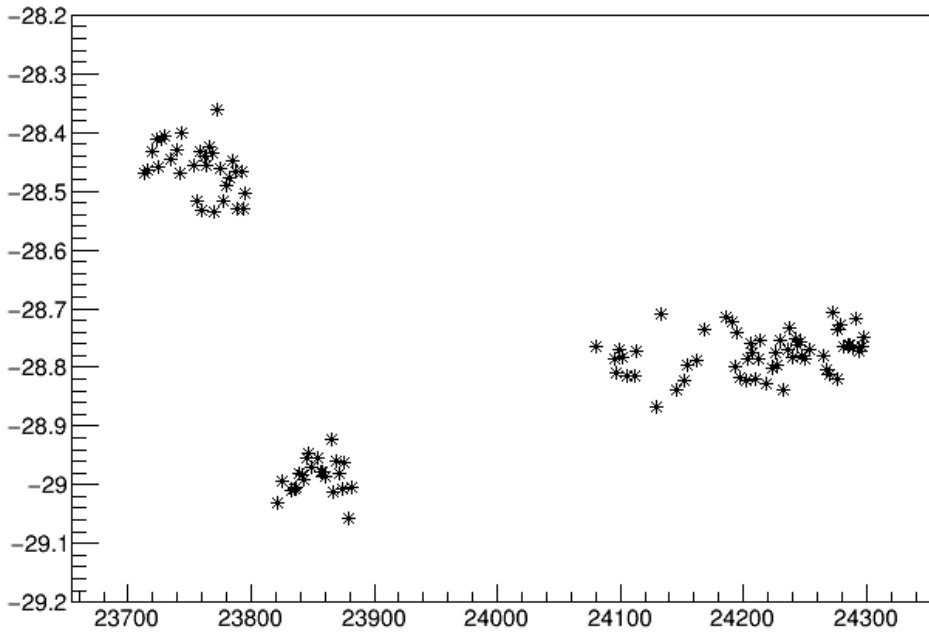
- Run Correction
 - All modules are integrated
- Module Correction
 - After Run Correction
- Determination of correction constants
 - Mean of gaussian

Run Correction

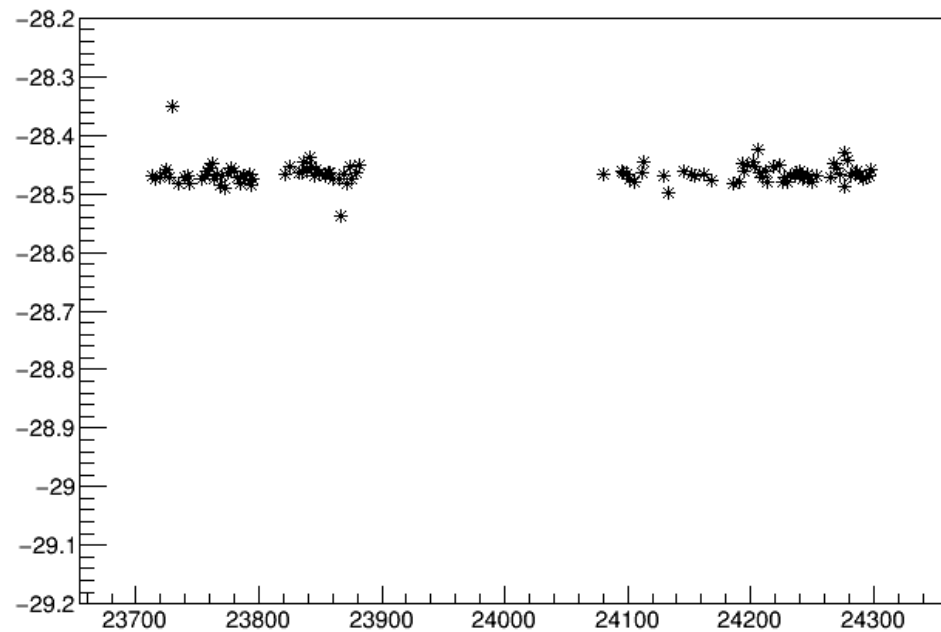


Run Correction Check

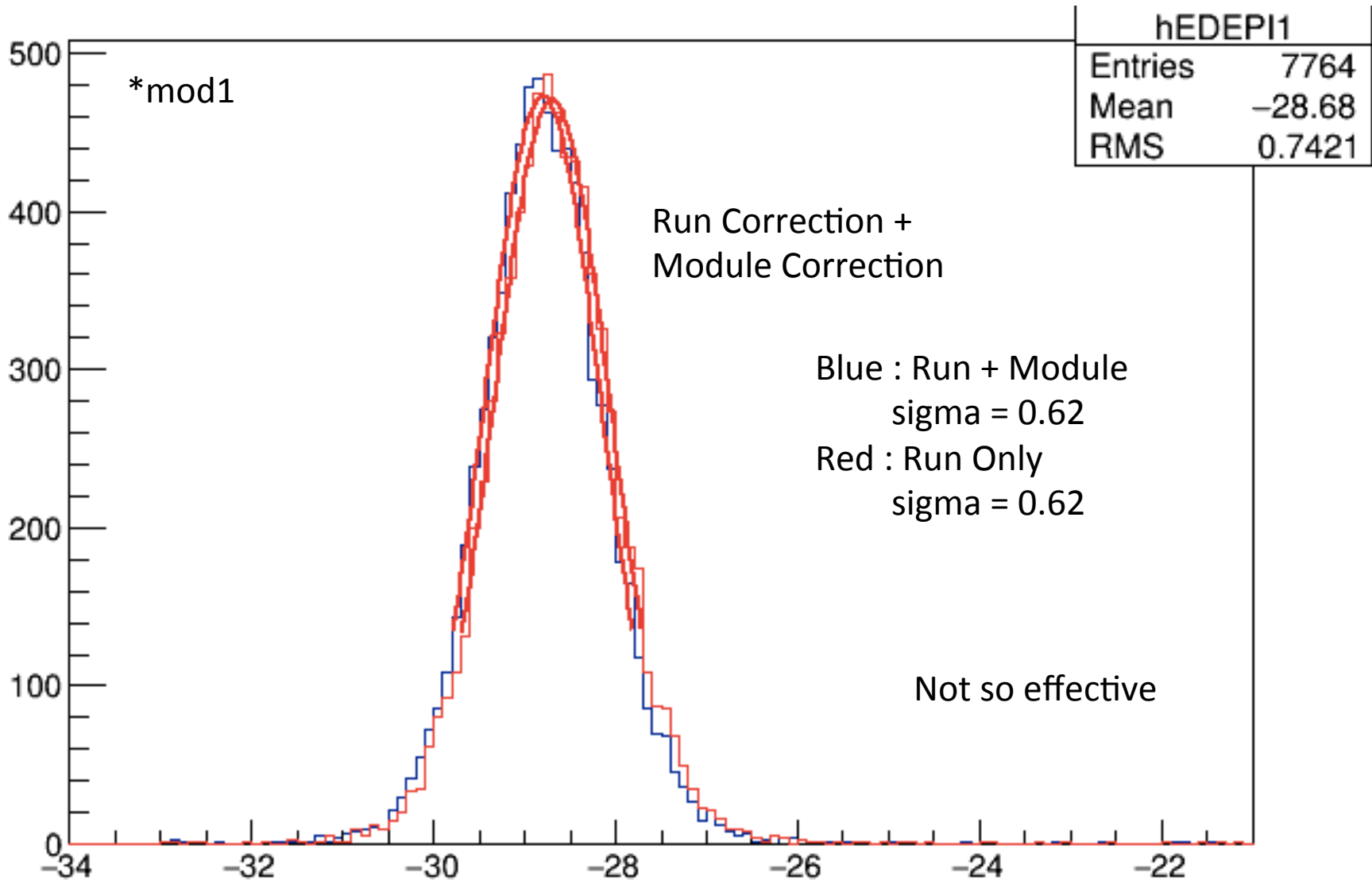
Before



After

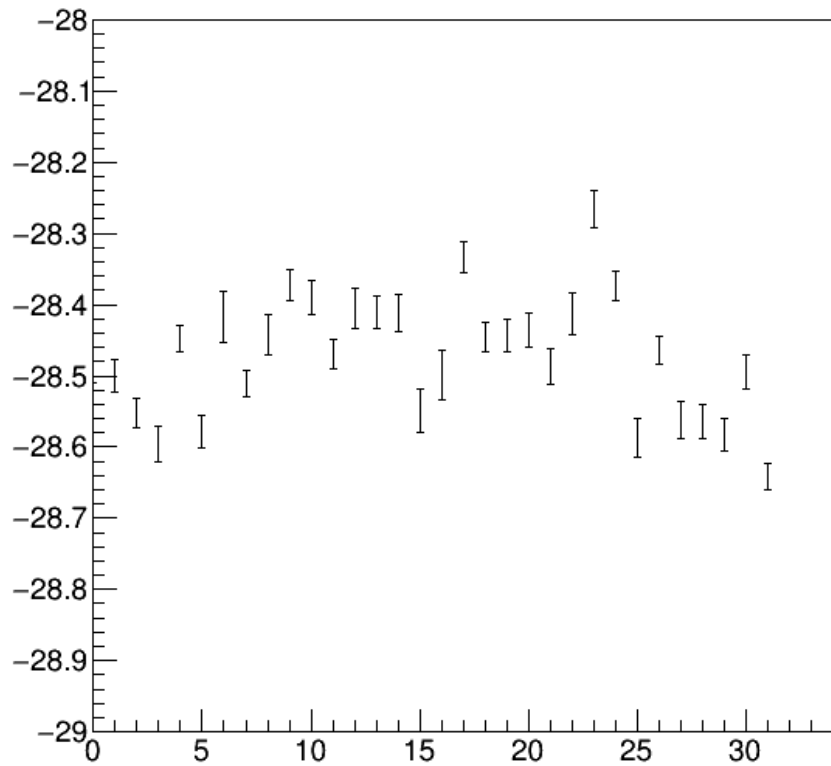


Module Correction

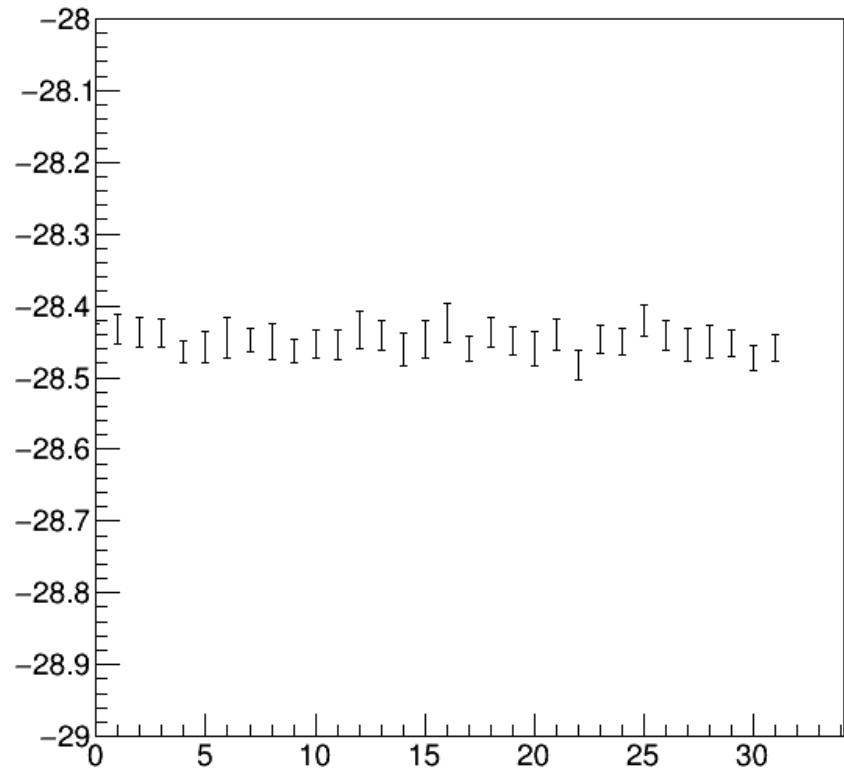


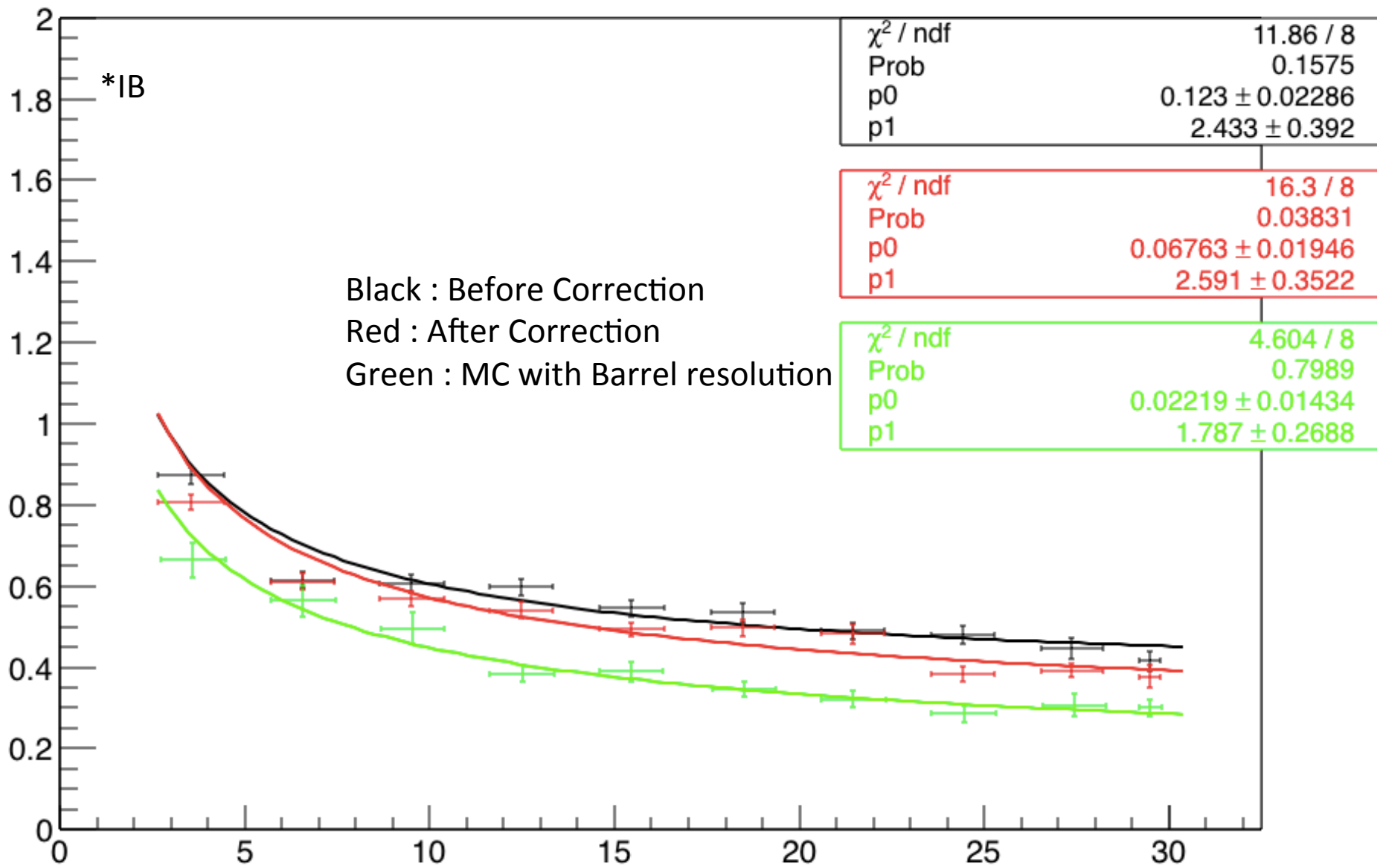
Module Correction Check

Before

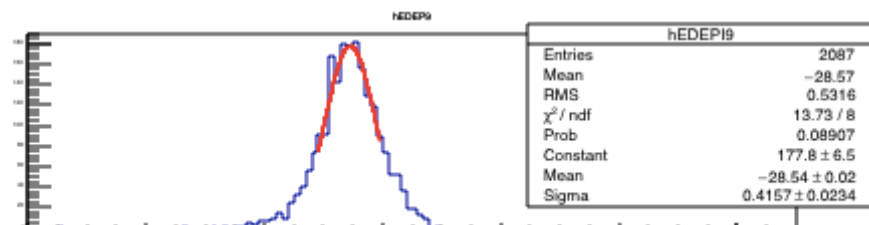
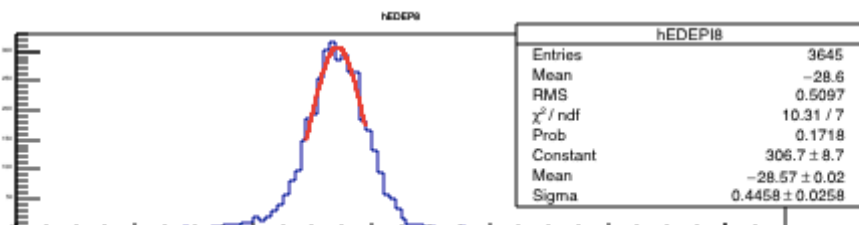
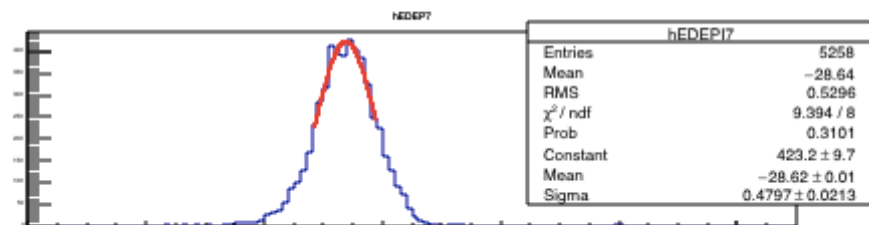
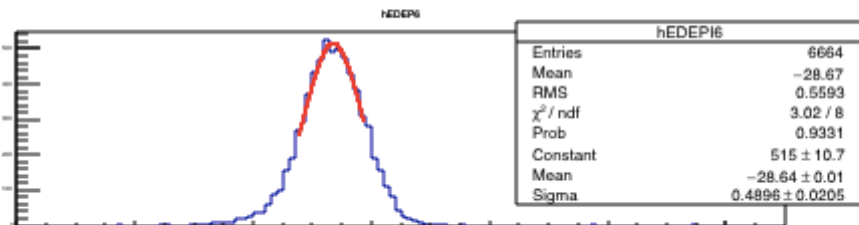
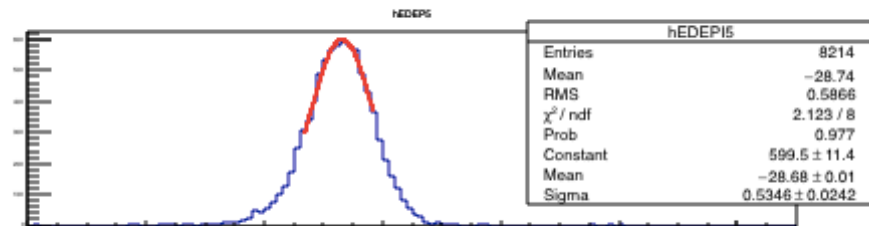
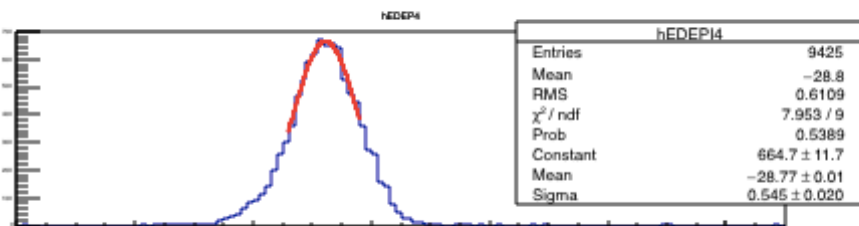
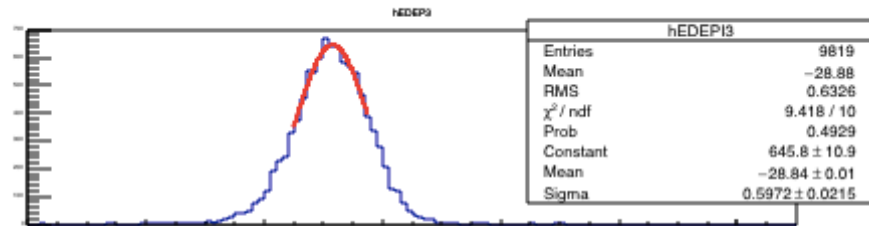
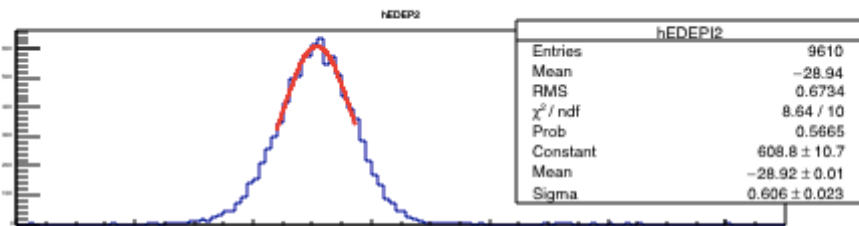
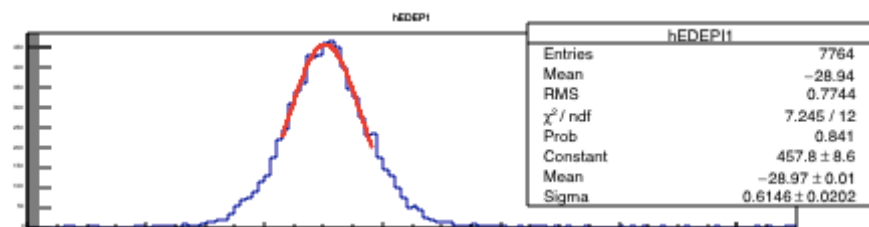
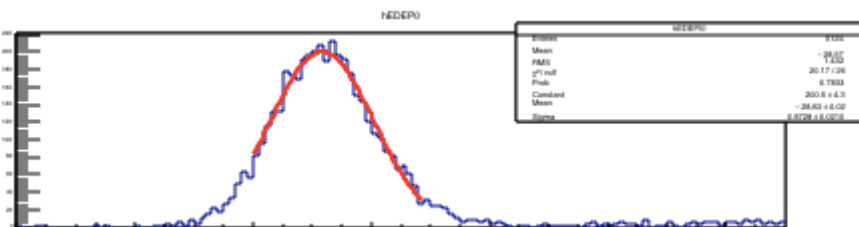


After

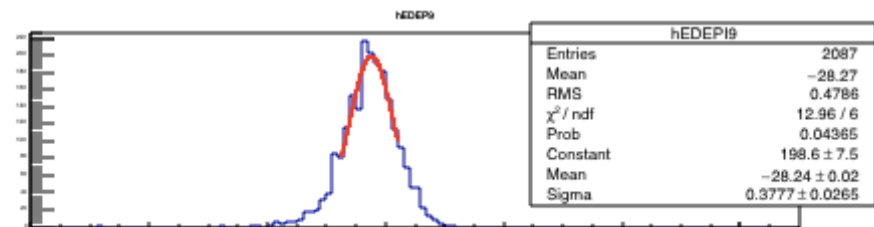
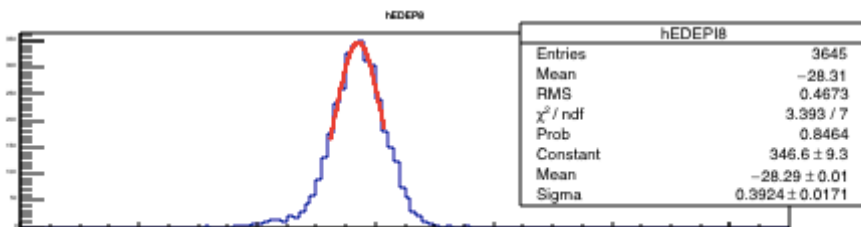
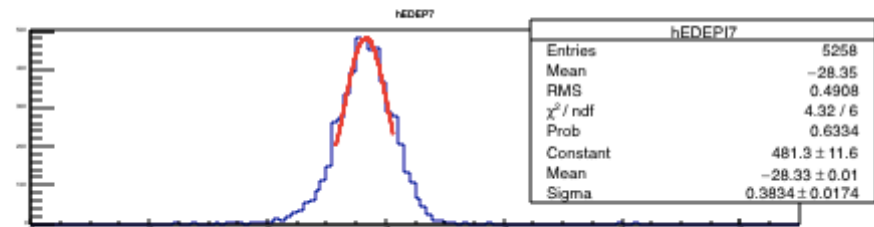
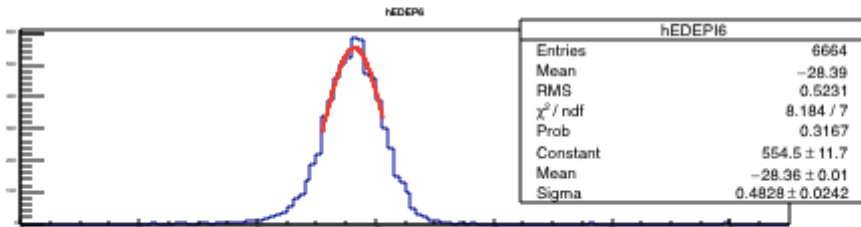
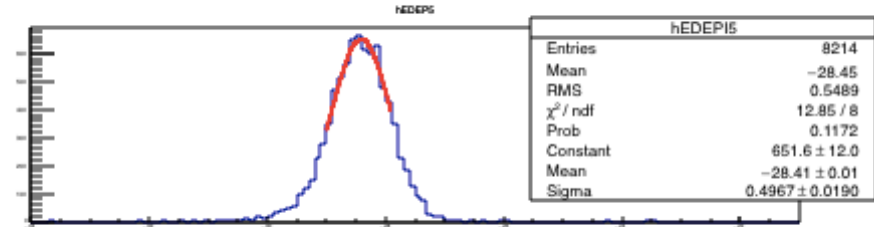
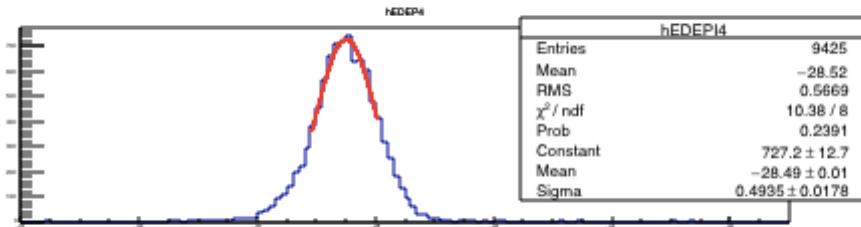
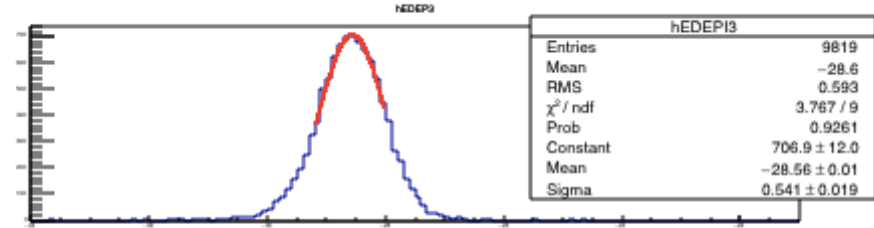
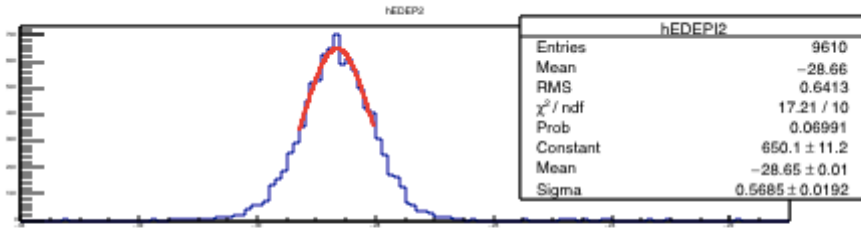
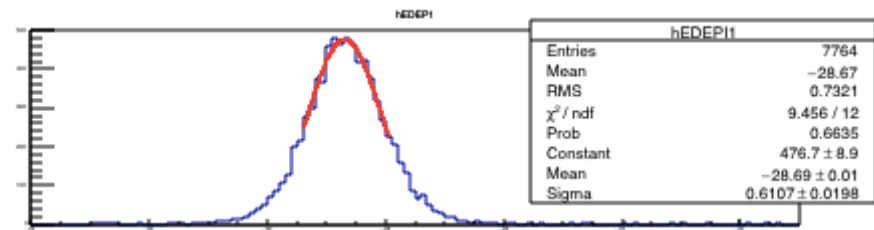
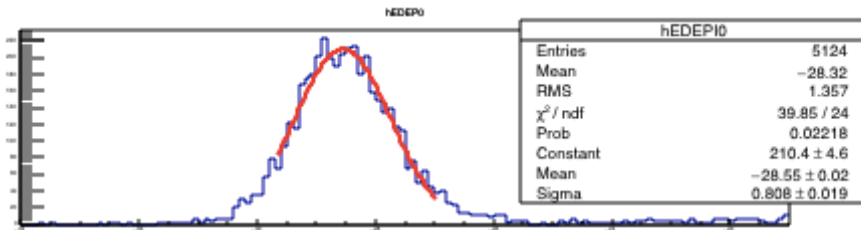




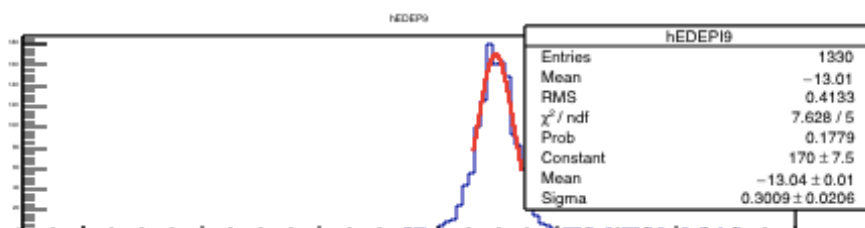
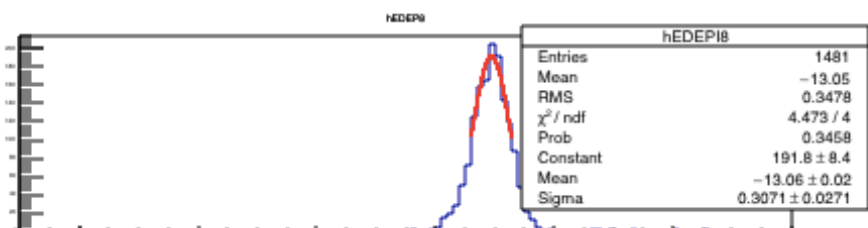
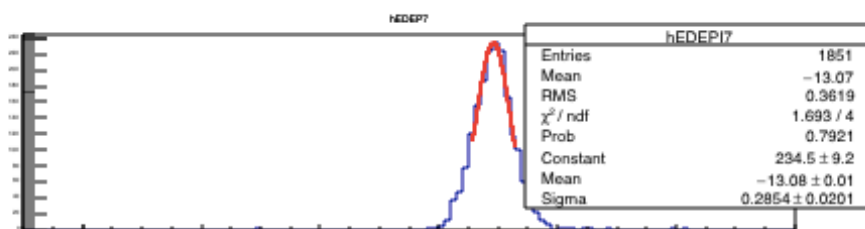
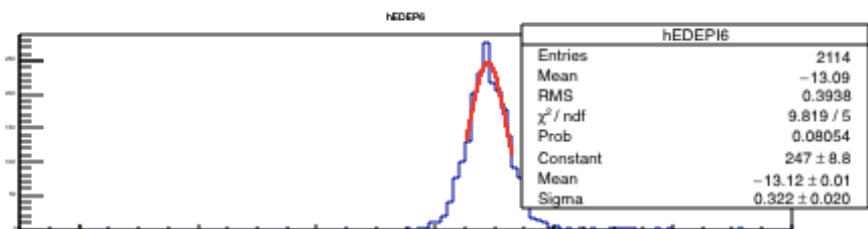
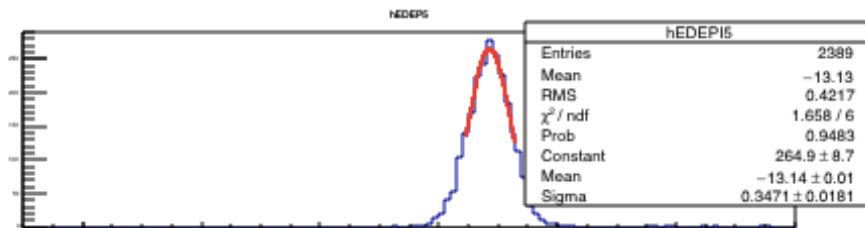
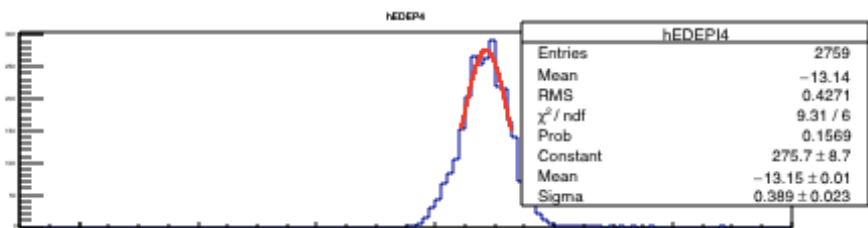
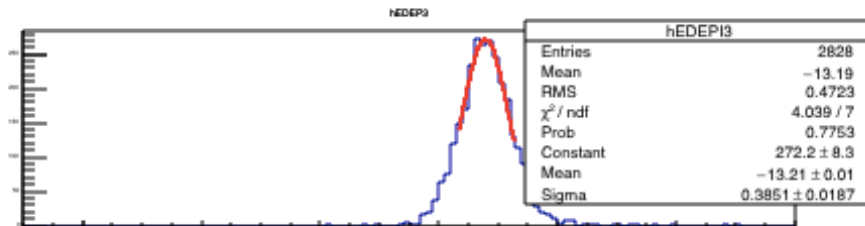
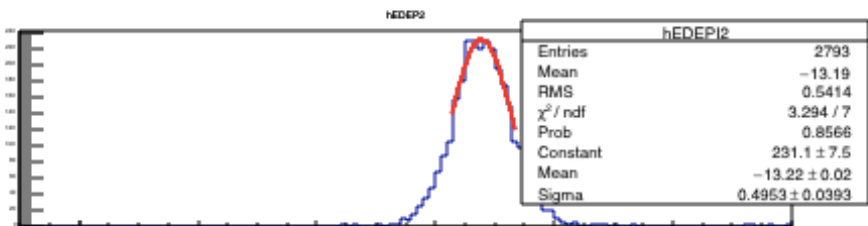
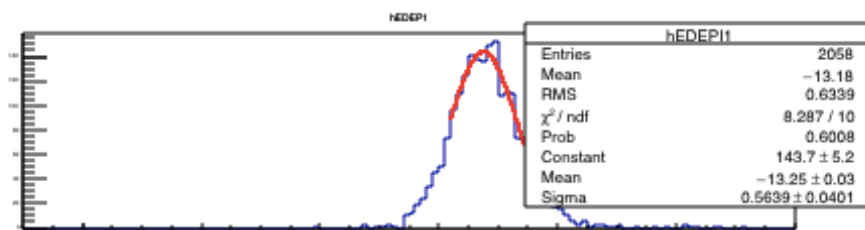
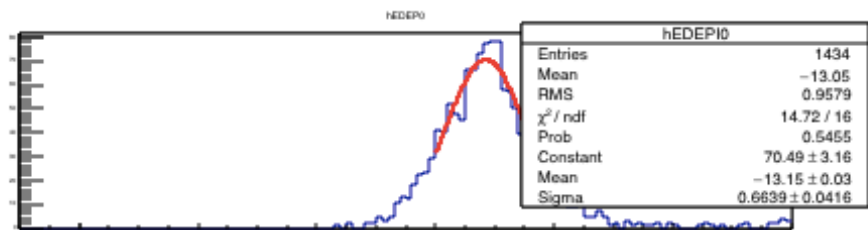
Before Correction



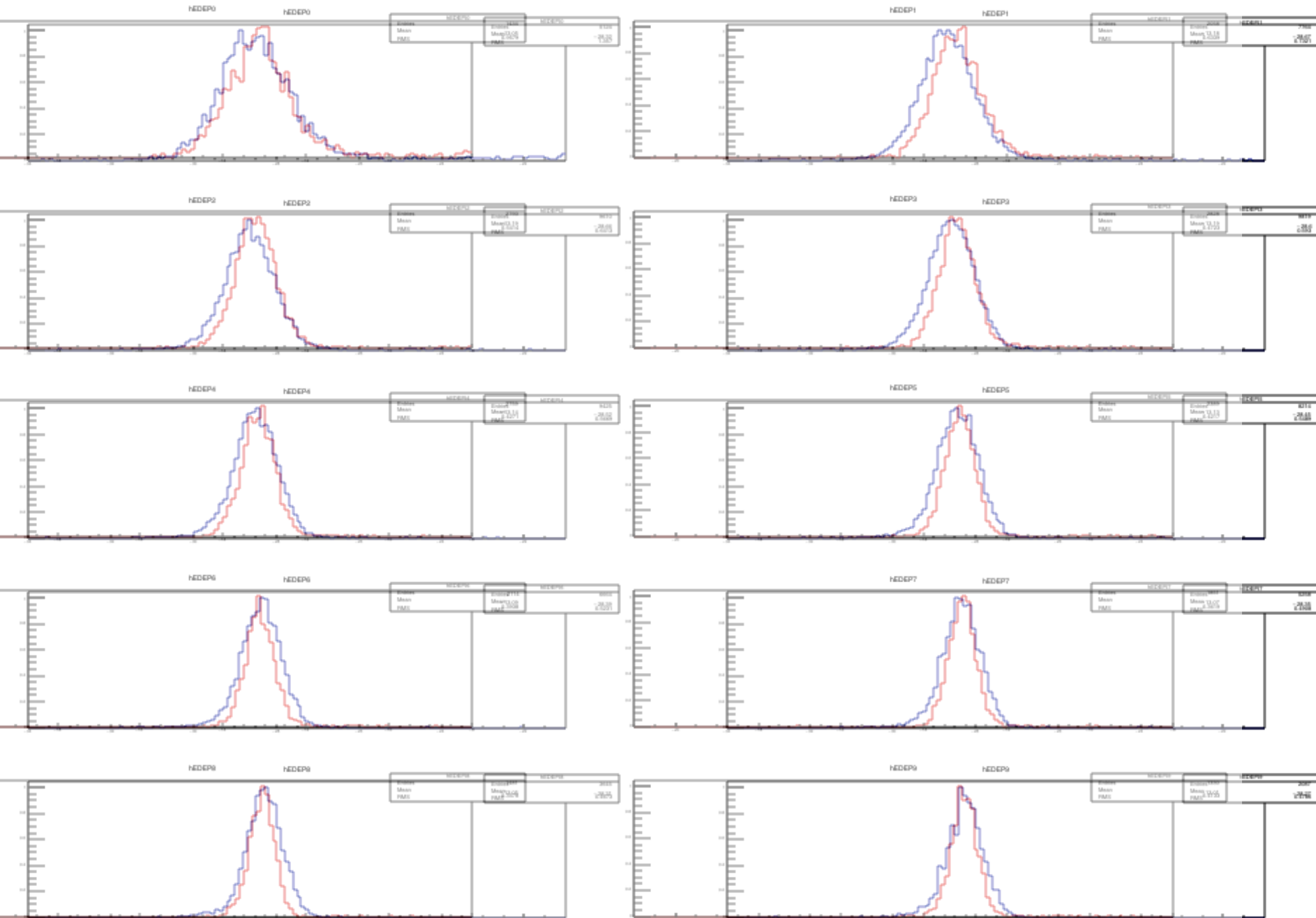
After Correction



MC

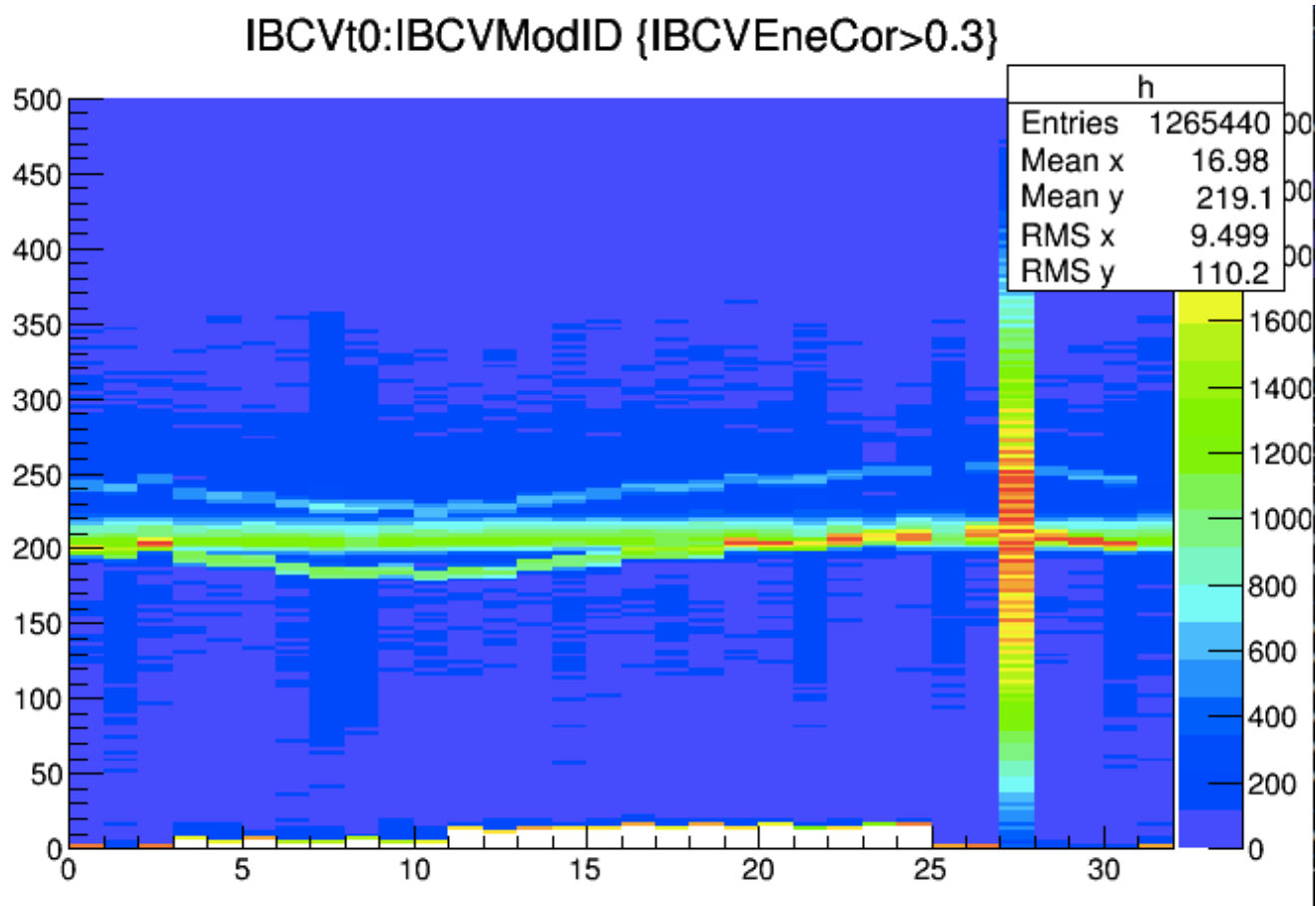


Blue : data with correction, Red : MC



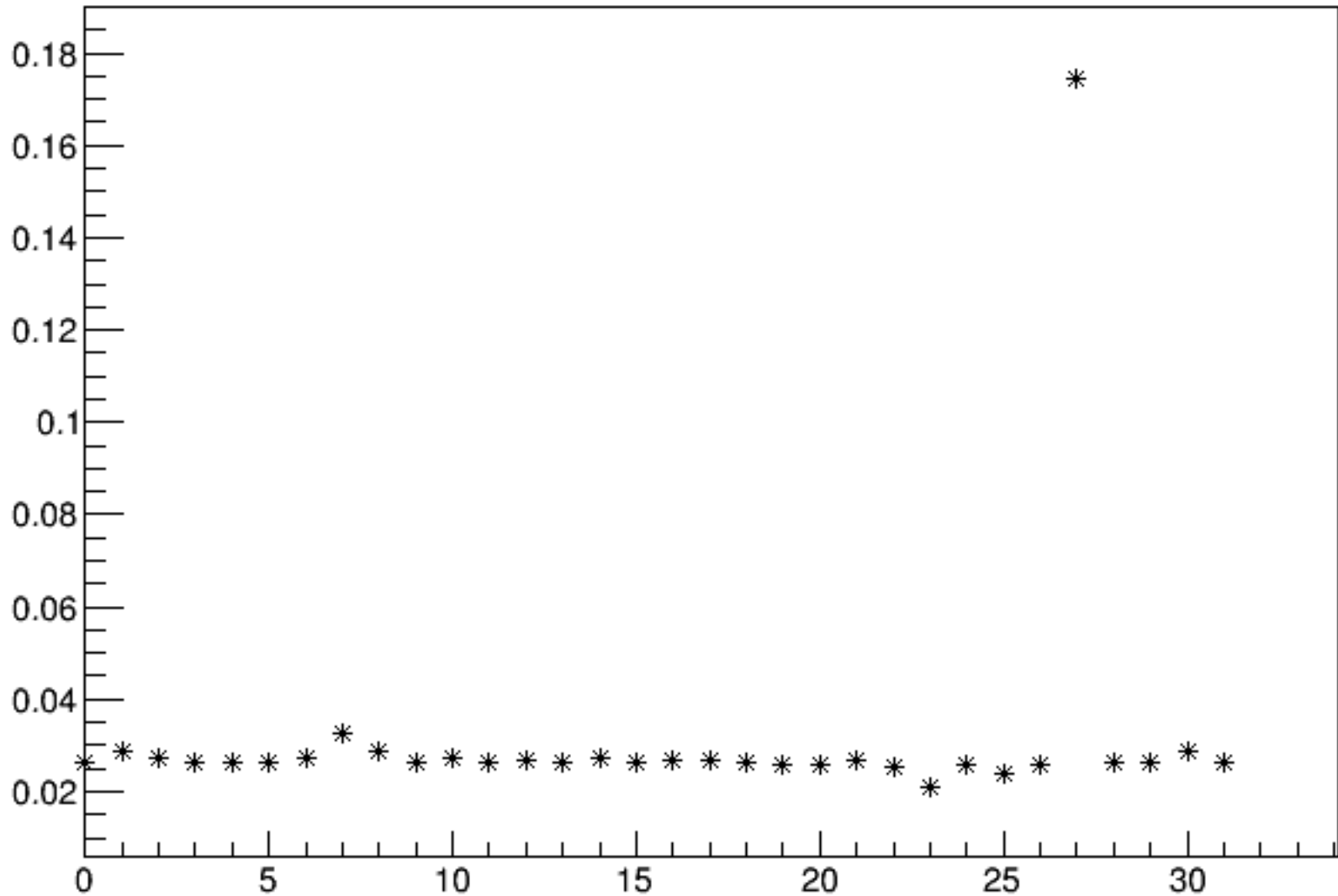
IBCV t0

Enough for setting veto window



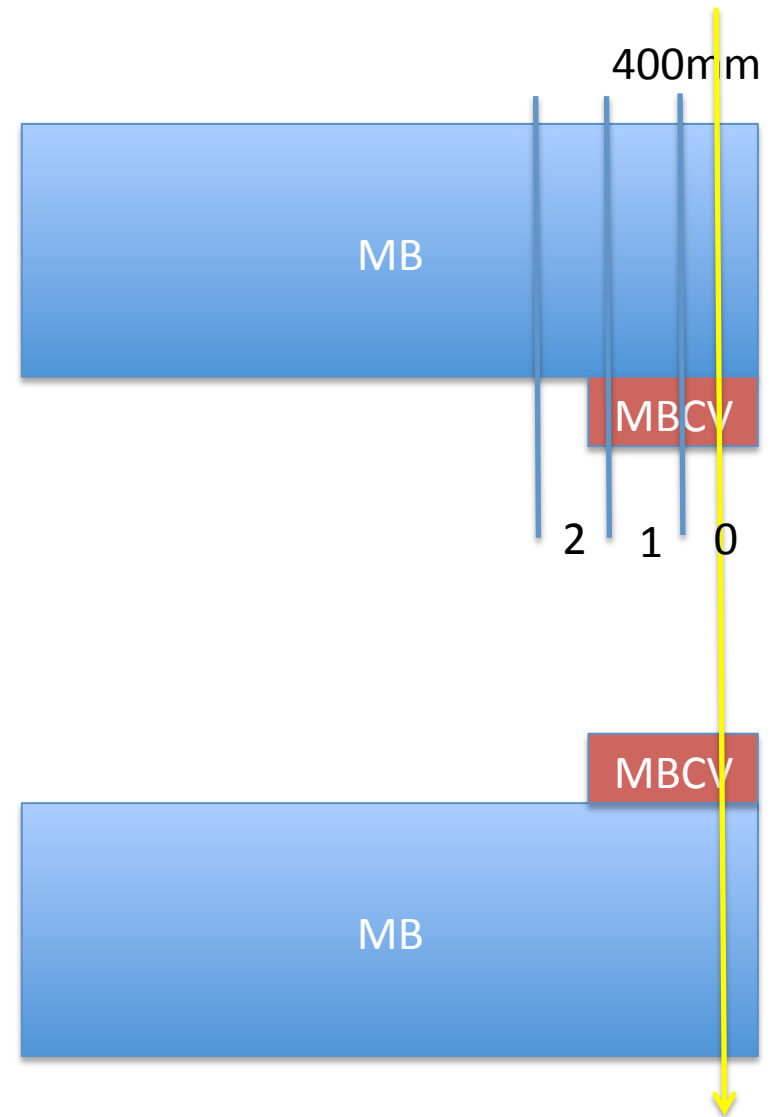
IBCVeneCor

Fraction of
energy corrected with attenuation > 0.3



MBCV Calibration

- Use Main Barrel for MBCV calibration
 - Tagging Hit Position && Module
- Hard to see attenuation effect

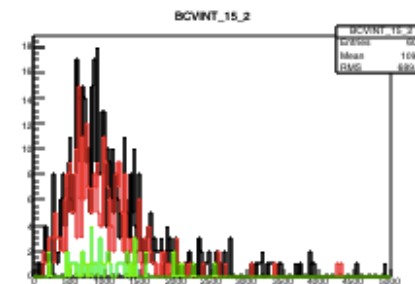
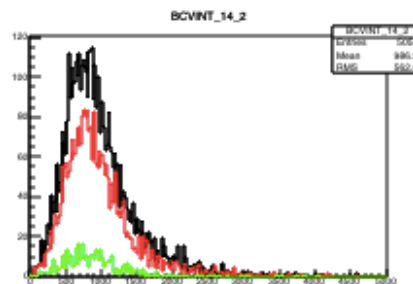
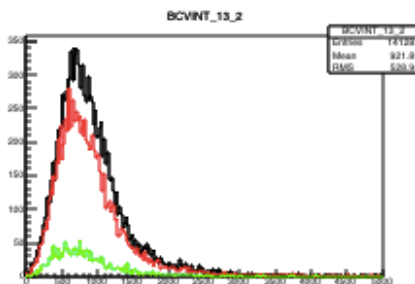
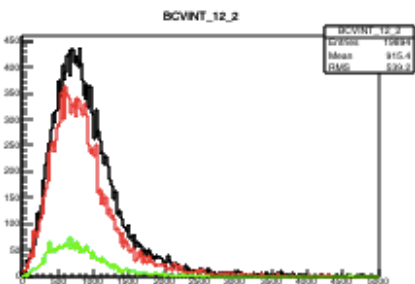
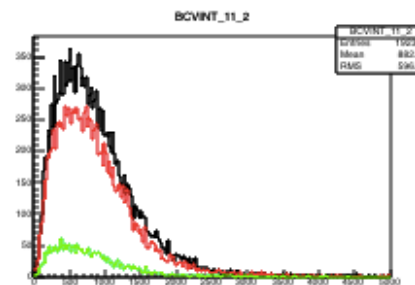
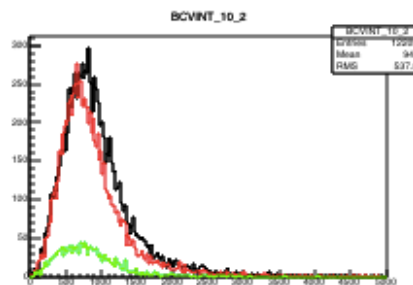
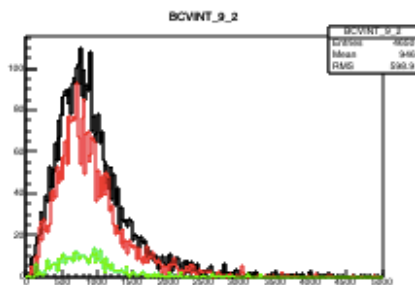
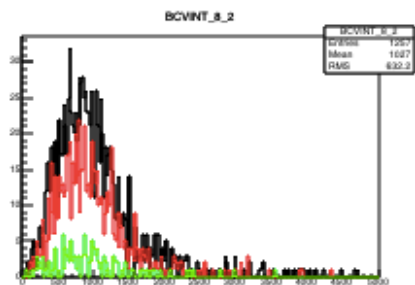
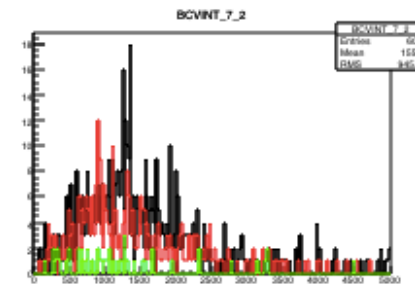
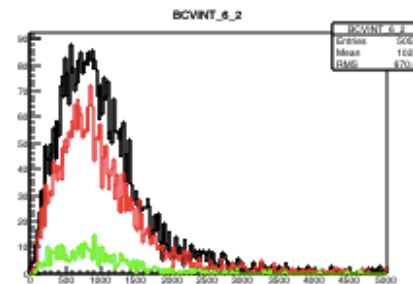
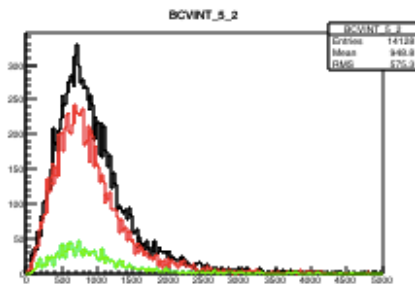
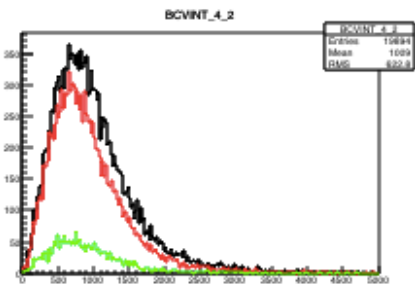
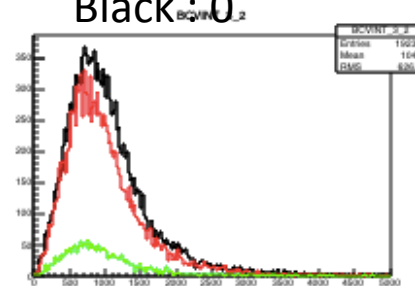
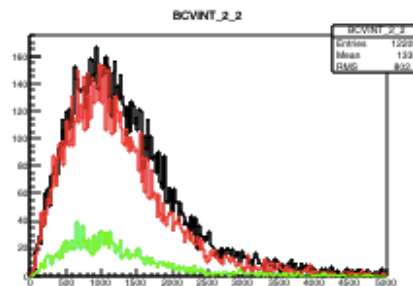
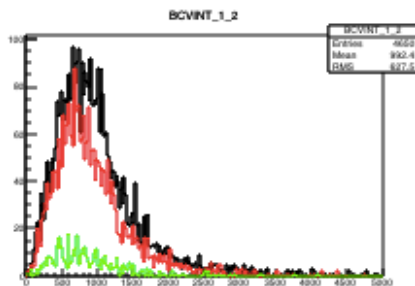
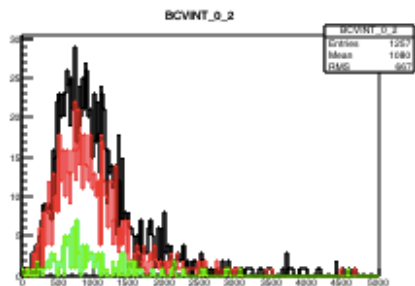


MBCV MIP

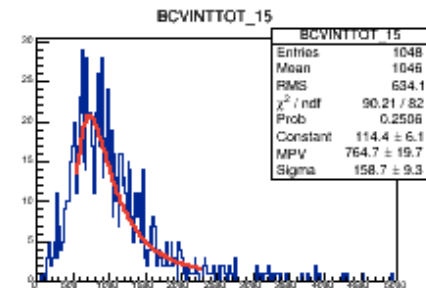
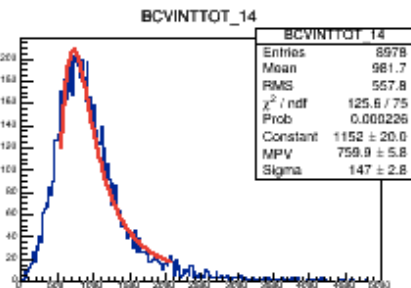
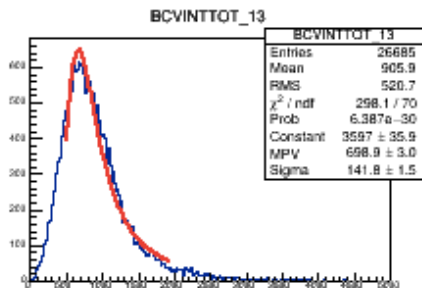
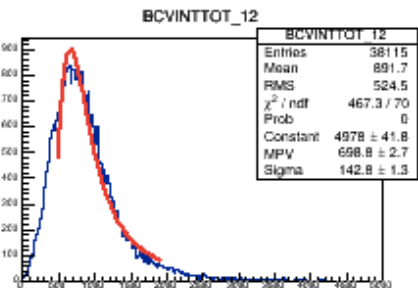
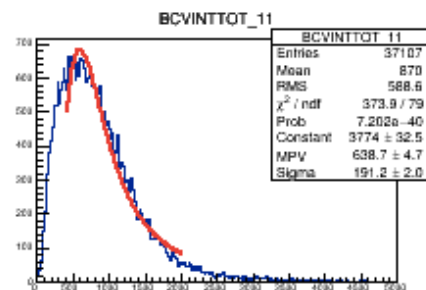
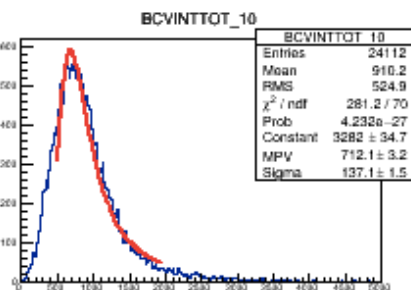
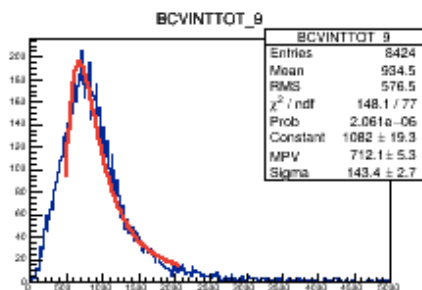
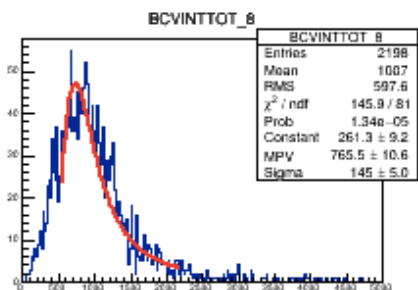
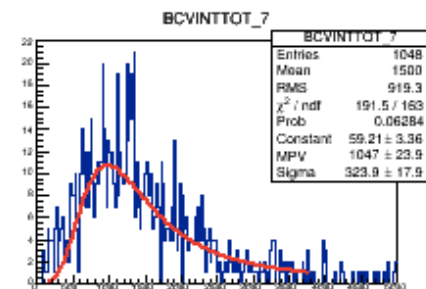
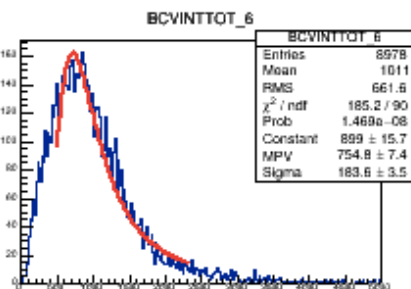
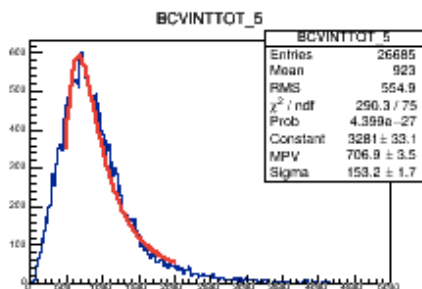
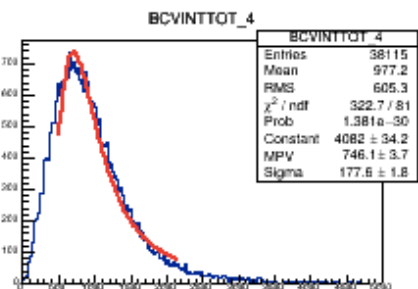
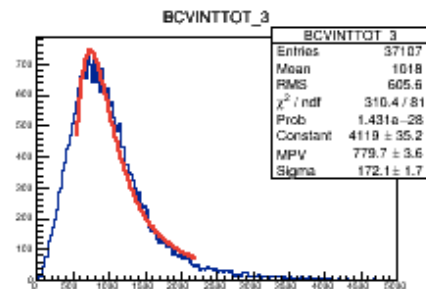
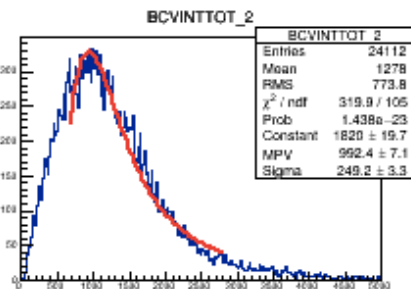
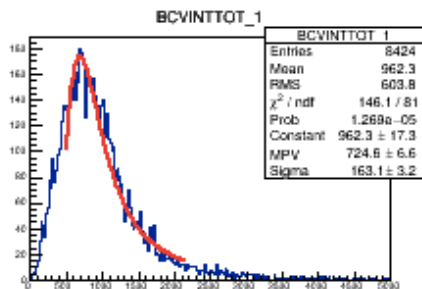
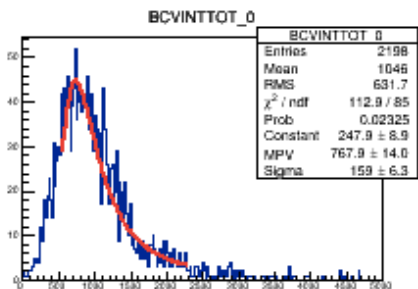
Green : 2

Red : 1

Black : 0

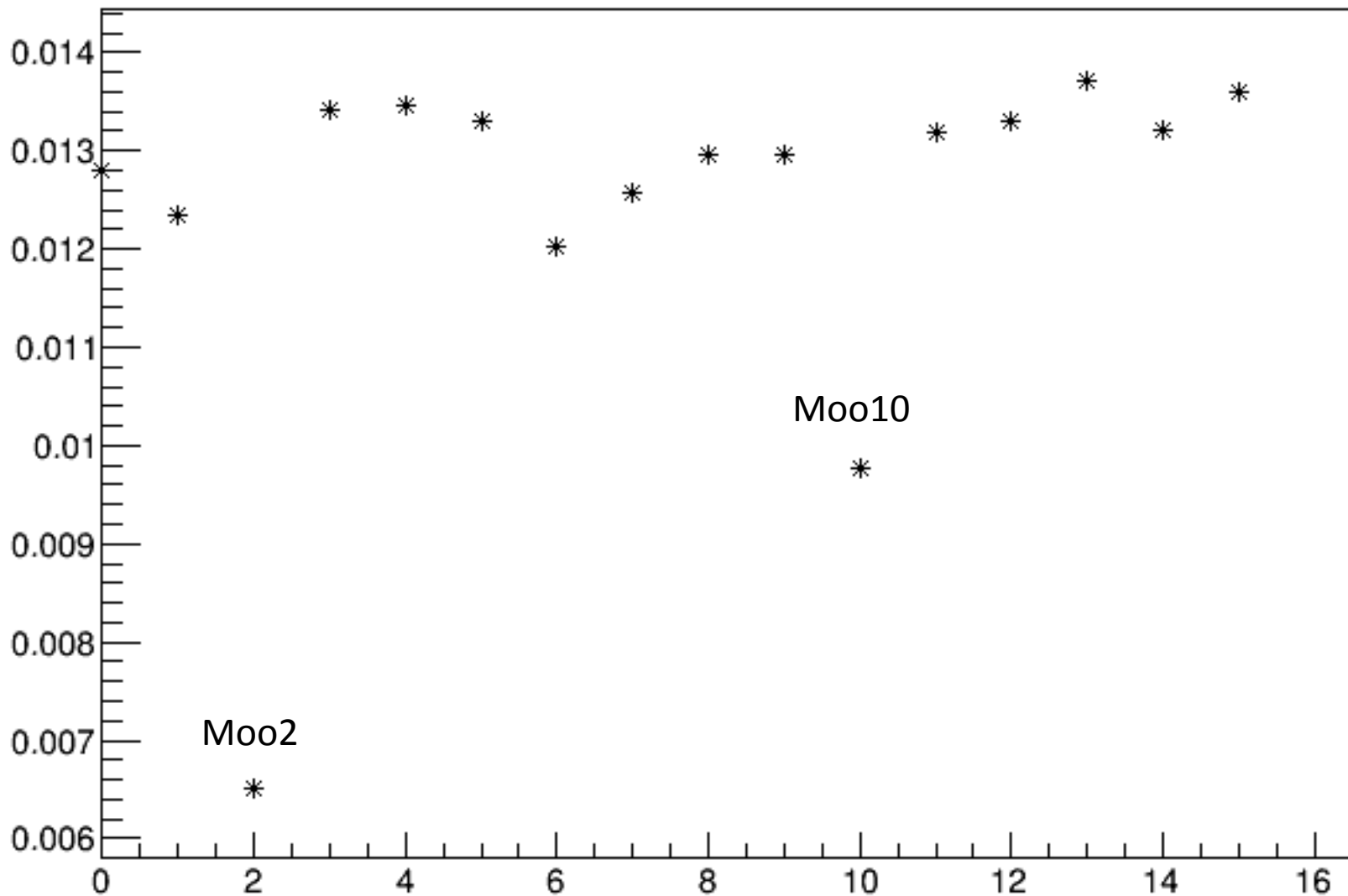


Fitting quality

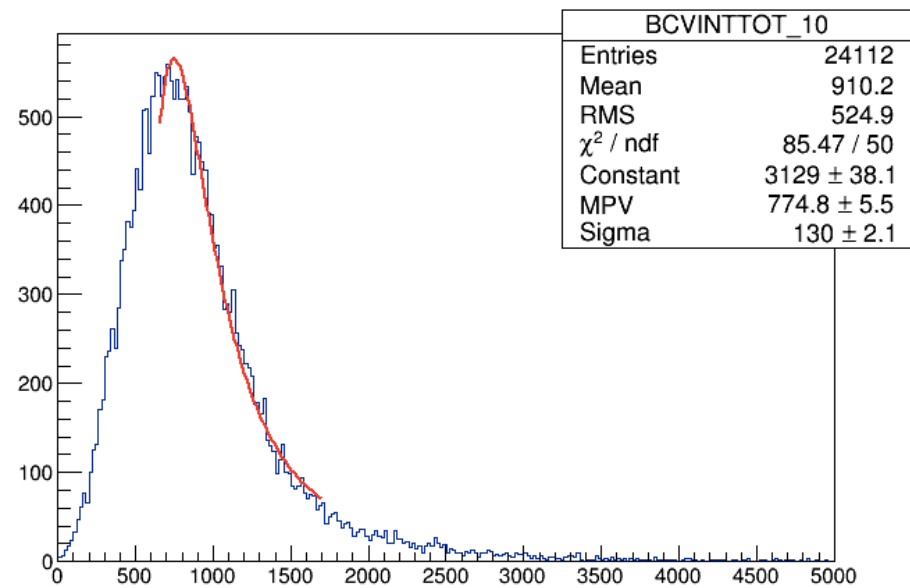
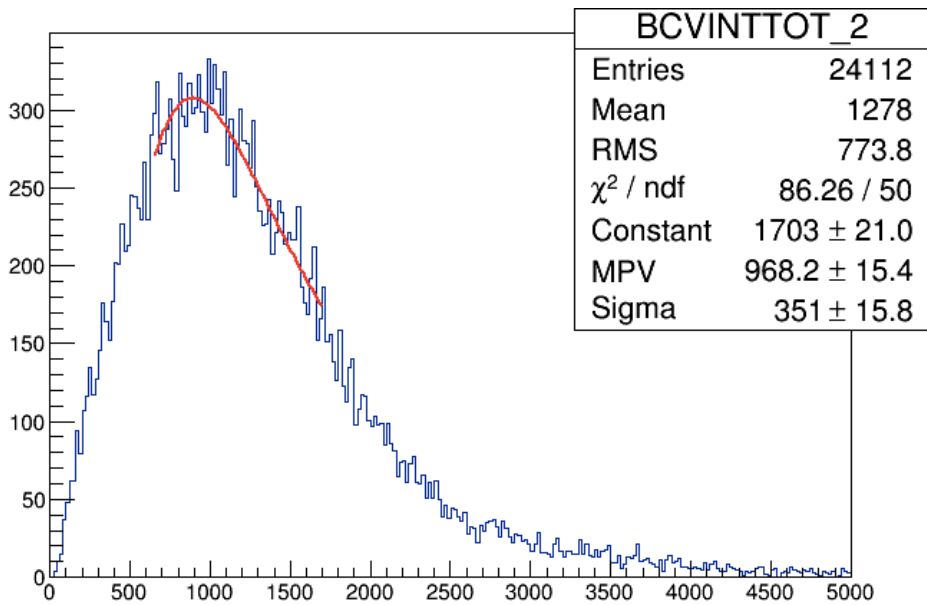


Energy fraction

Fraction of
energy > 1.0

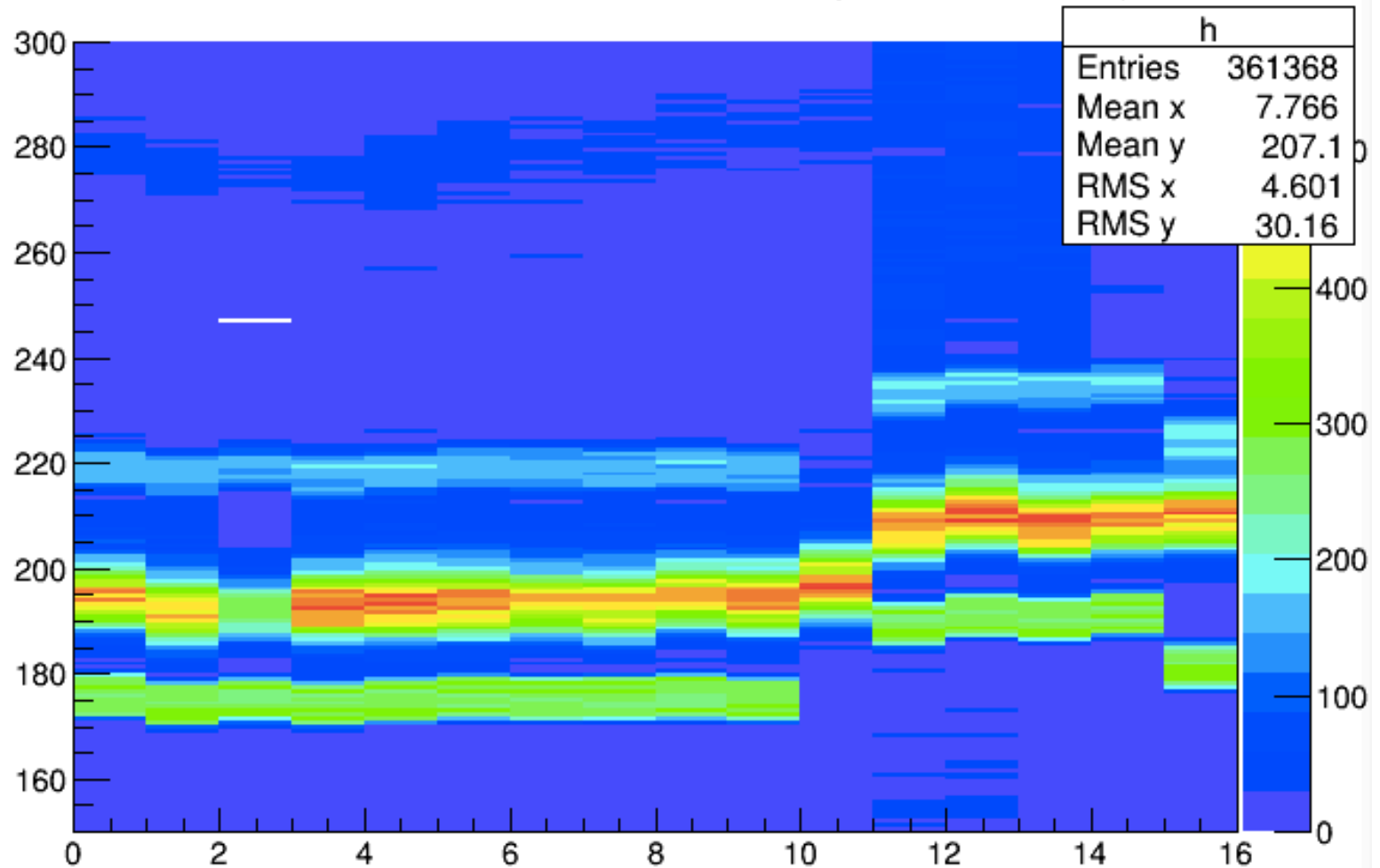


Fitting



MBCV t0

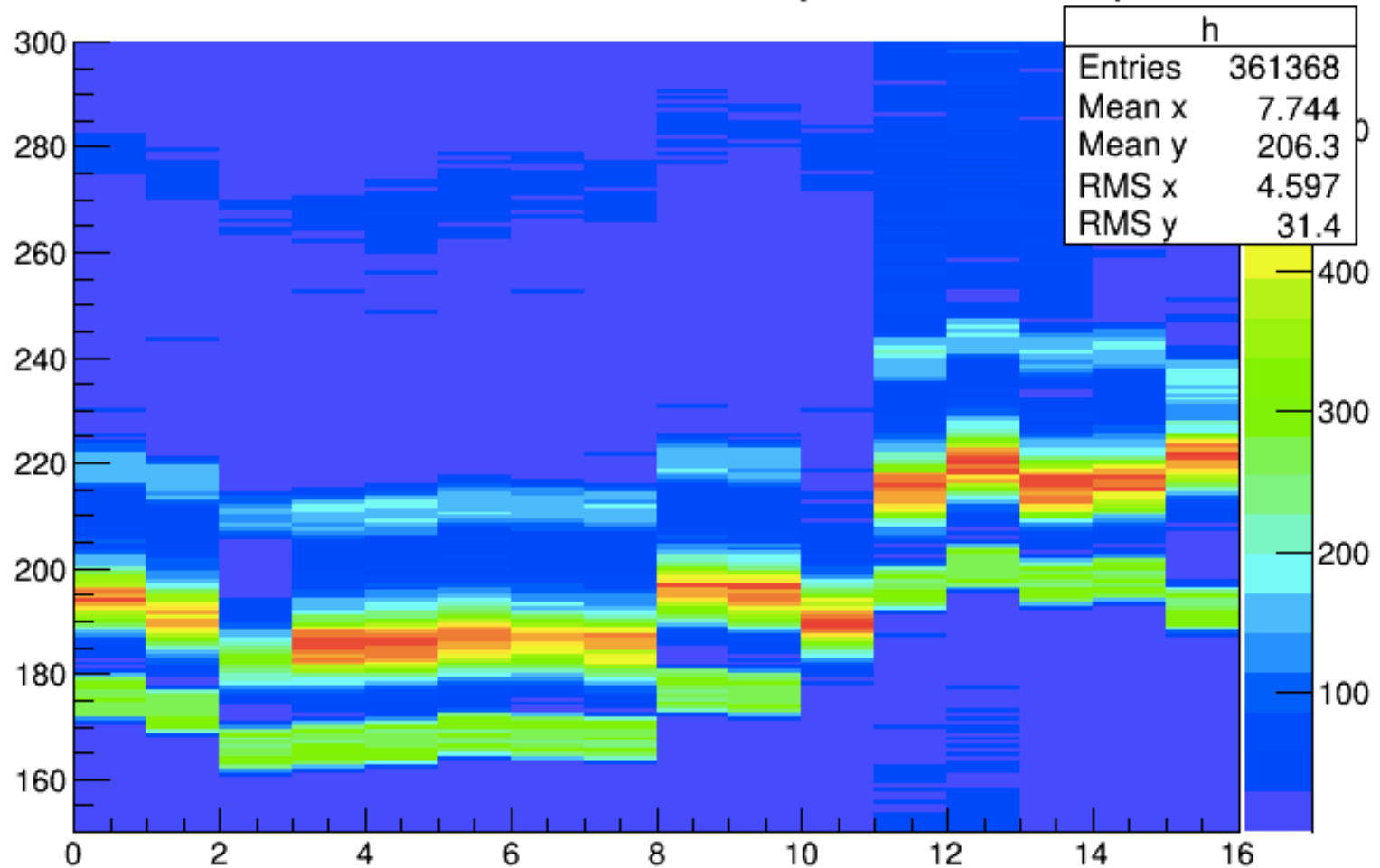
Initial Time
MBCVInitialTime*8.0:MBCVModID {MBCVEne>0.5}



MBCV t0

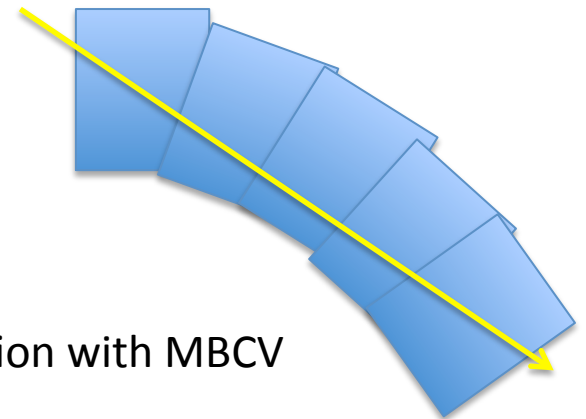
After Calibration (??)

MBCVTime*8.0:MBCVModID {MBCVEne>0.5}



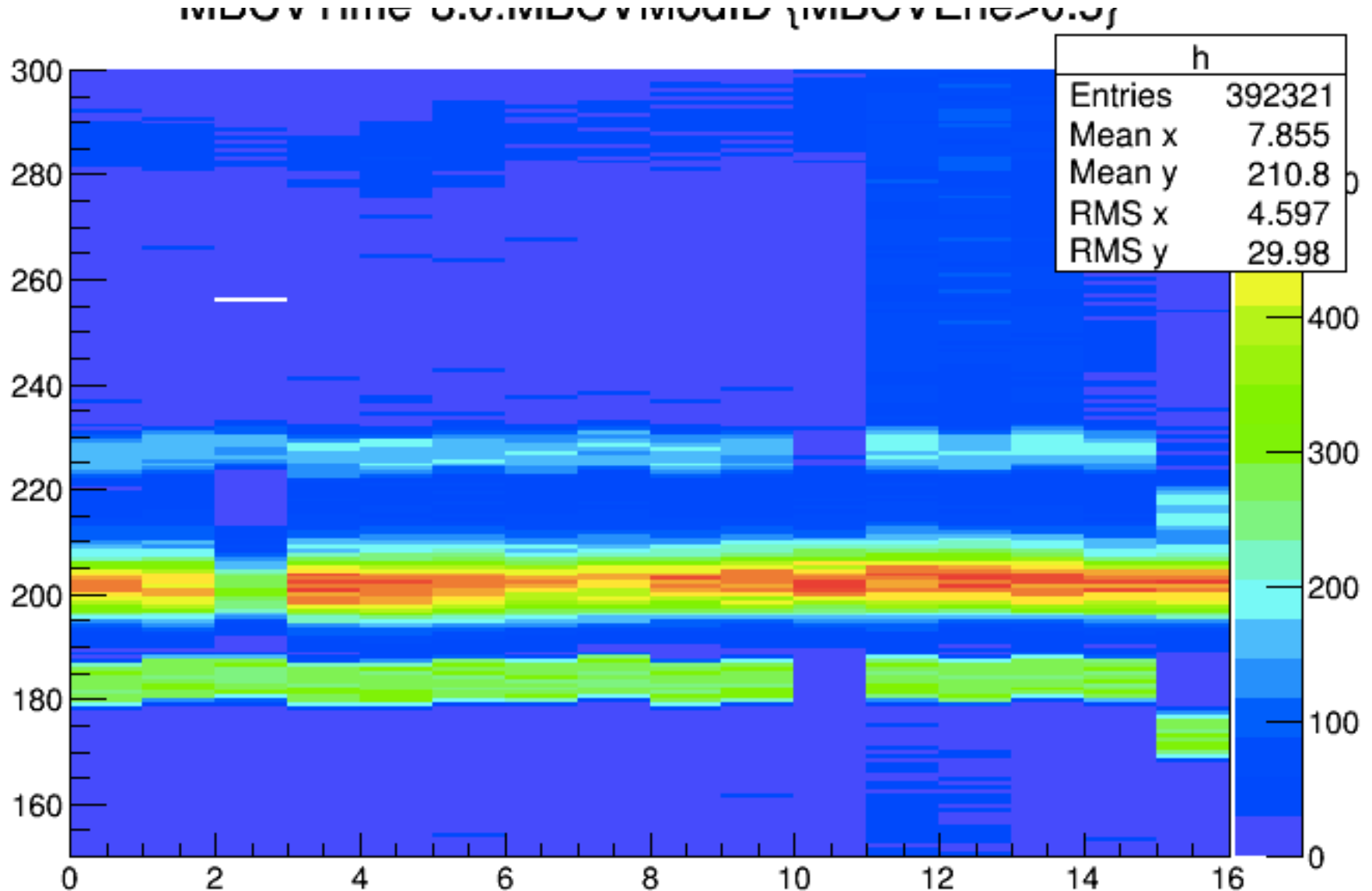
problem

- Hard to get full information
 - Module0 – module2 time distribution
 - For checking module0 or module2, conformation of Hit on MBCV is needed by Main Barrel
 - But when cosmic ray pass Barrel with depositing many hit on Main Barrel, It is hard to go inside MBCV.
- Re-definition of Hit on MBCV
 - $MBCV_{Peak} > 30$
 - With ignoring MB



No interaction with MBCV

After Redefinition



summary

- Conversion from IntegratedADC to energy is done for IBCV, MBCV
 - Need special treatment of IBCV Module27
 - Mis-gain matching of MBCV 2, 10 (?)
 - Fittings look reasonable
- T0 Calibration is done
 - We can set proper veto window for IBCV and MBCV
- Problem about resolution of IB is not solved yet
 - Removing differences between MC and Data
 - Module, Run Correction are done
 - Spill by Spill ??