HMS Cer Update 2023/05/25

Ran calibration on more runs around the regions with strange behaviour.
Came up with 4 regions with different calibrations
I've updated the standard.database and pushed changes to github.
I'll also show some examples of before and after, compairing with online.
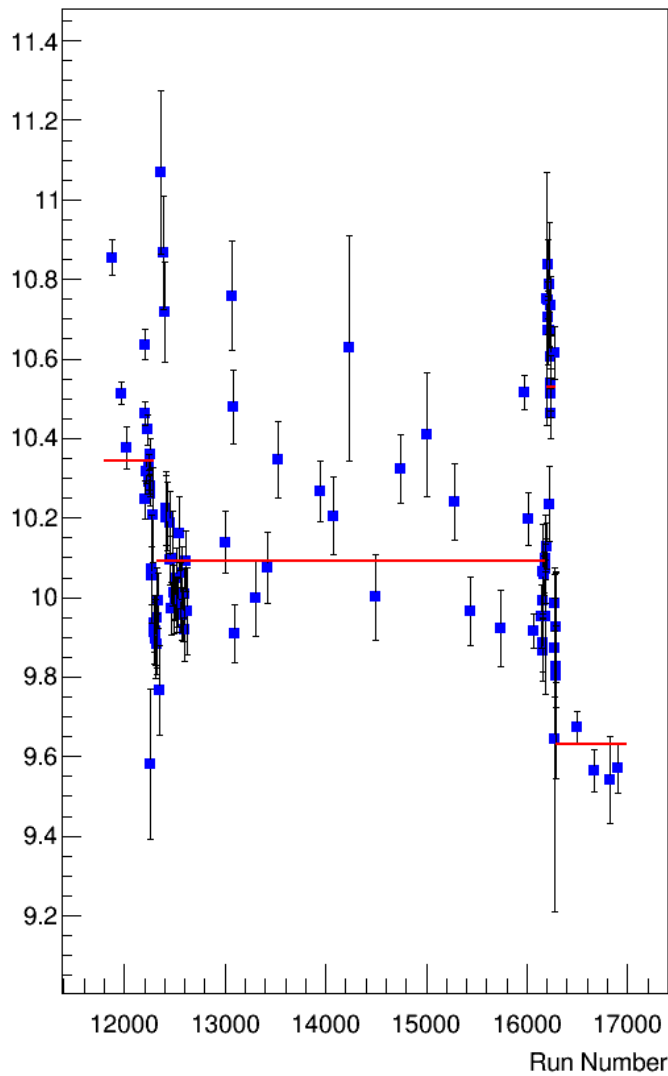
New Parameters

There are 4 regions.
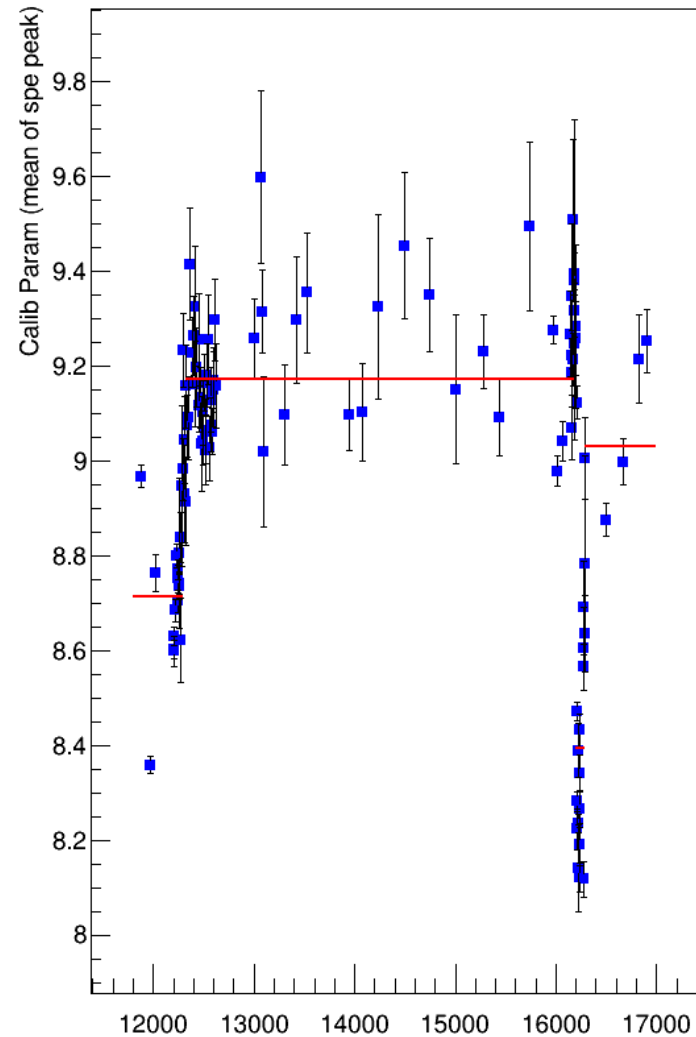   Notice the very small one at the significant deviation around 16000

I made the break points fall on the end of settings.
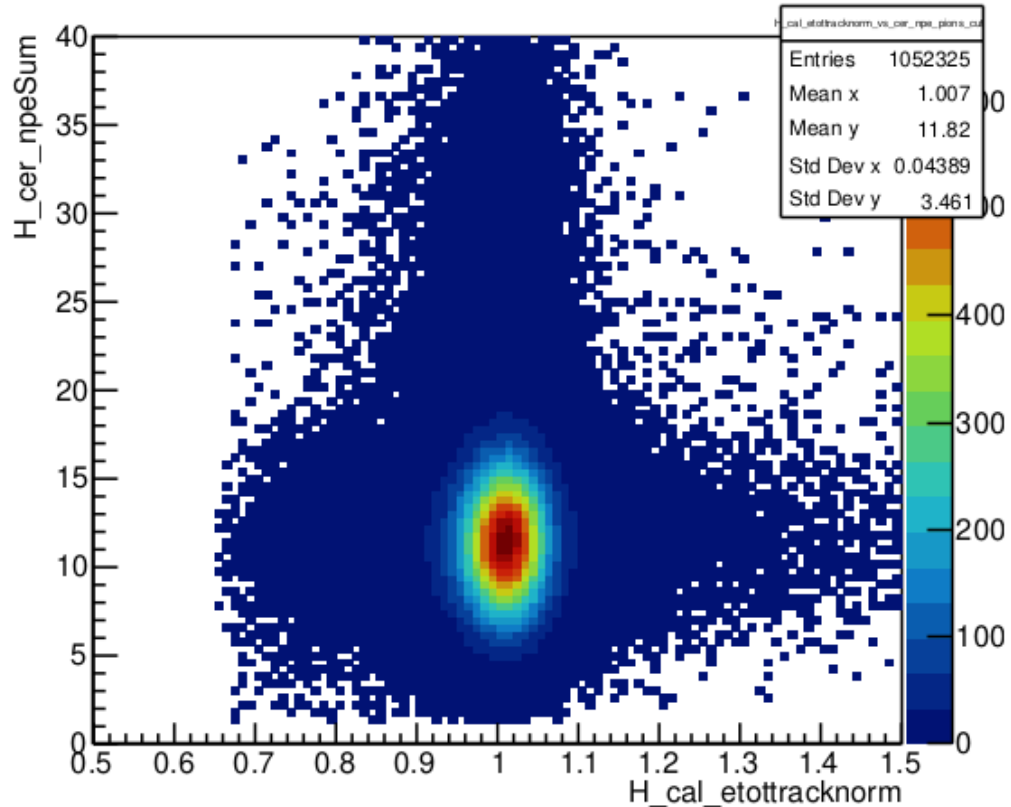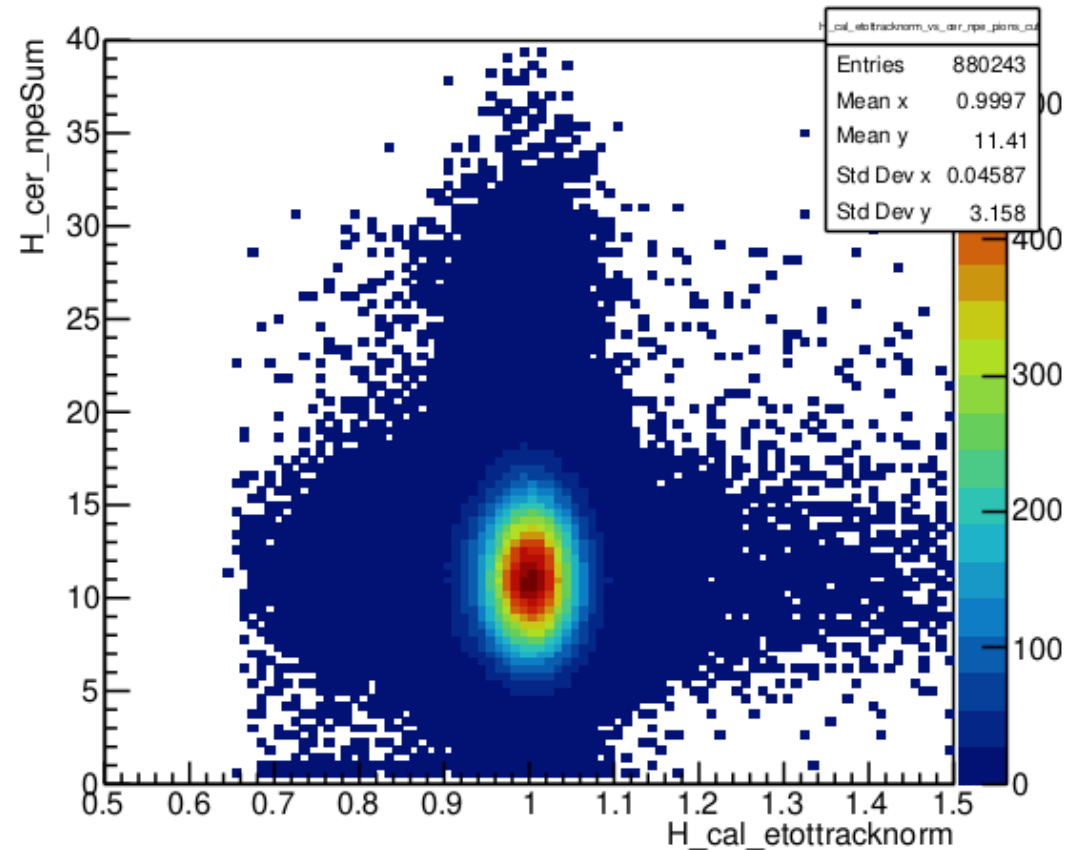
online had 10.17, 9.4

PMT1

PMT2

Q² 1.60 W 3.08 center high ε LH+

Online

Offline

Q² 3.85 W 2.02 center low ε

Q^2 5.00 W 2.95 center LH+

Online
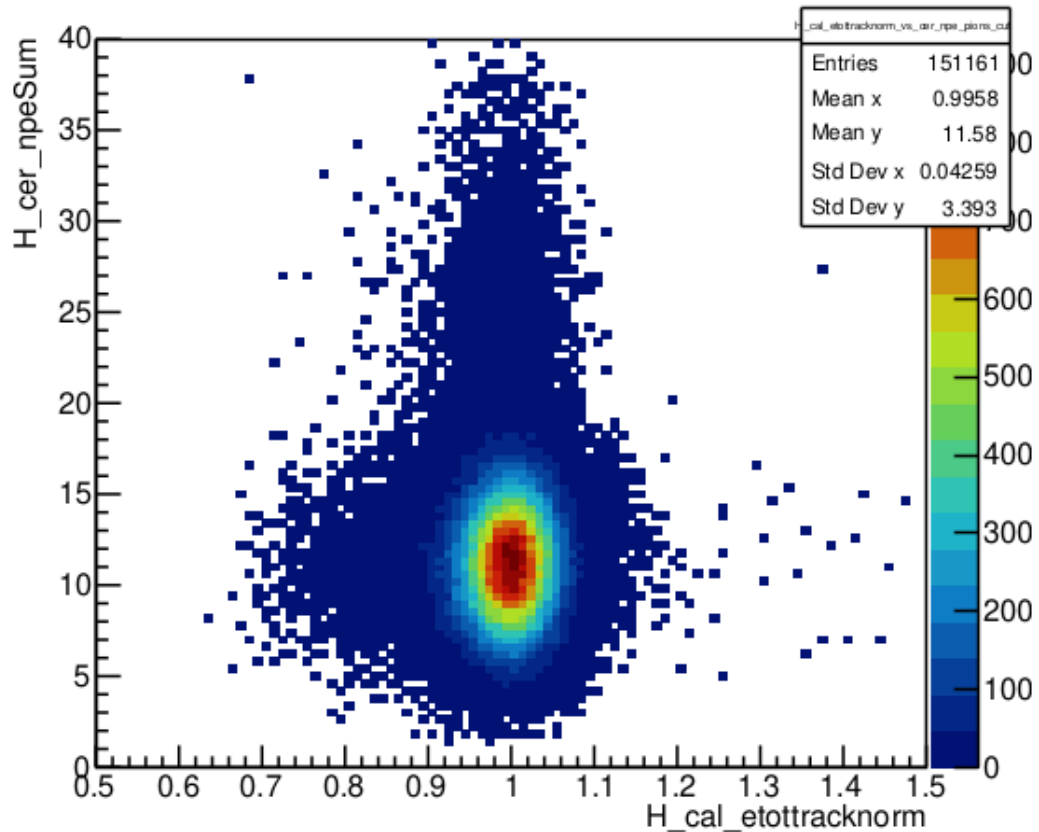
Offline

HMS cal etottracknorm vs HMS cer npeSum (with cuts)
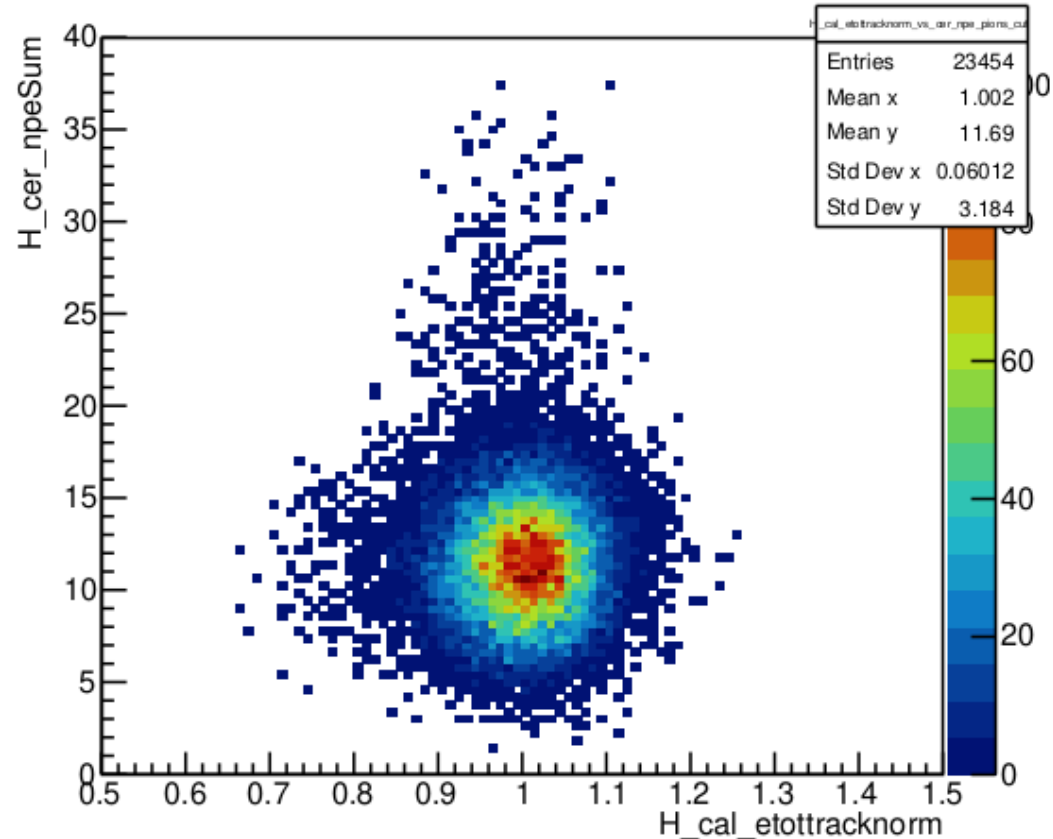
Q^2 6.0 W 3.195 center high ε LH+
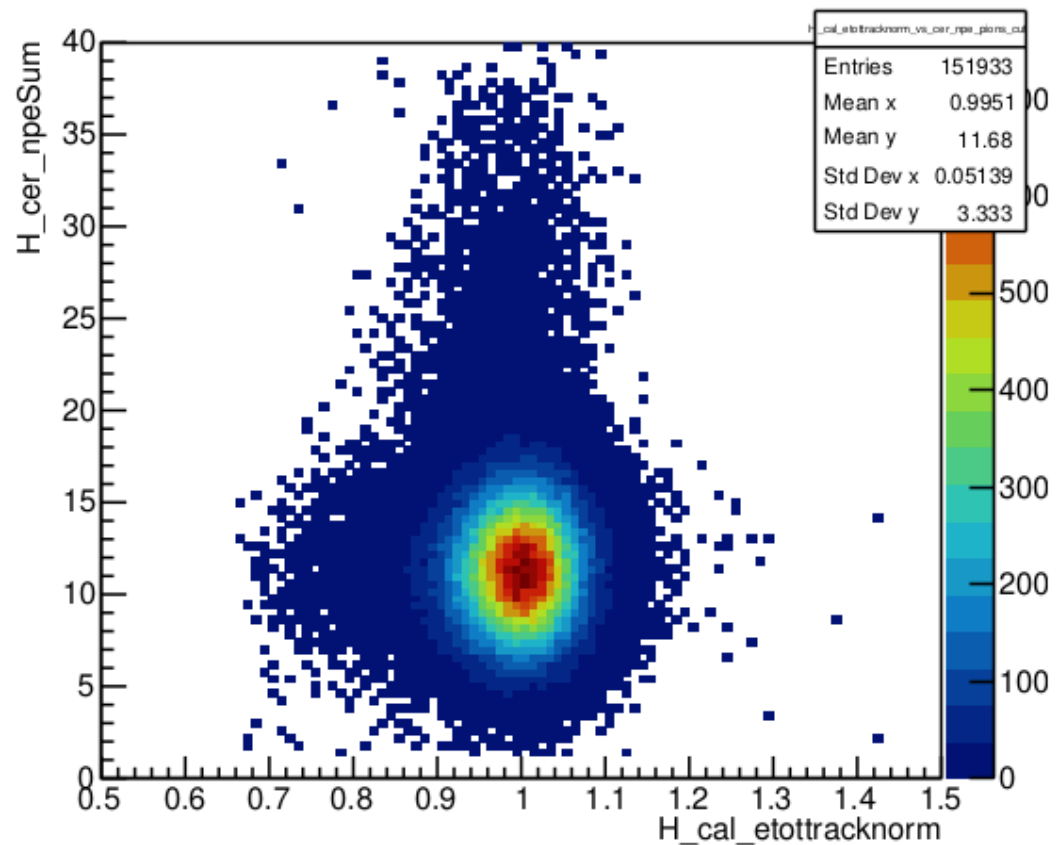
Q² 1.45 W 2.02 center low ε LH+

Online

Offline

HMS cal etottracknorm vs HMS cer npeSum (with cuts)

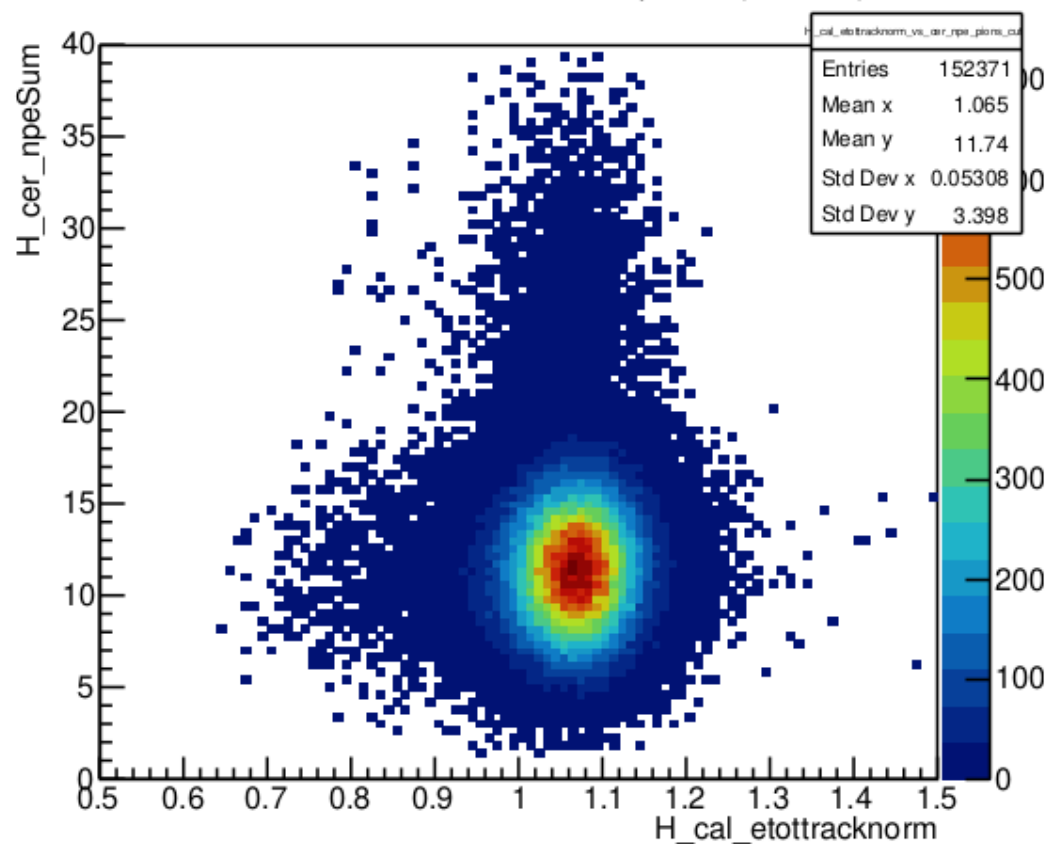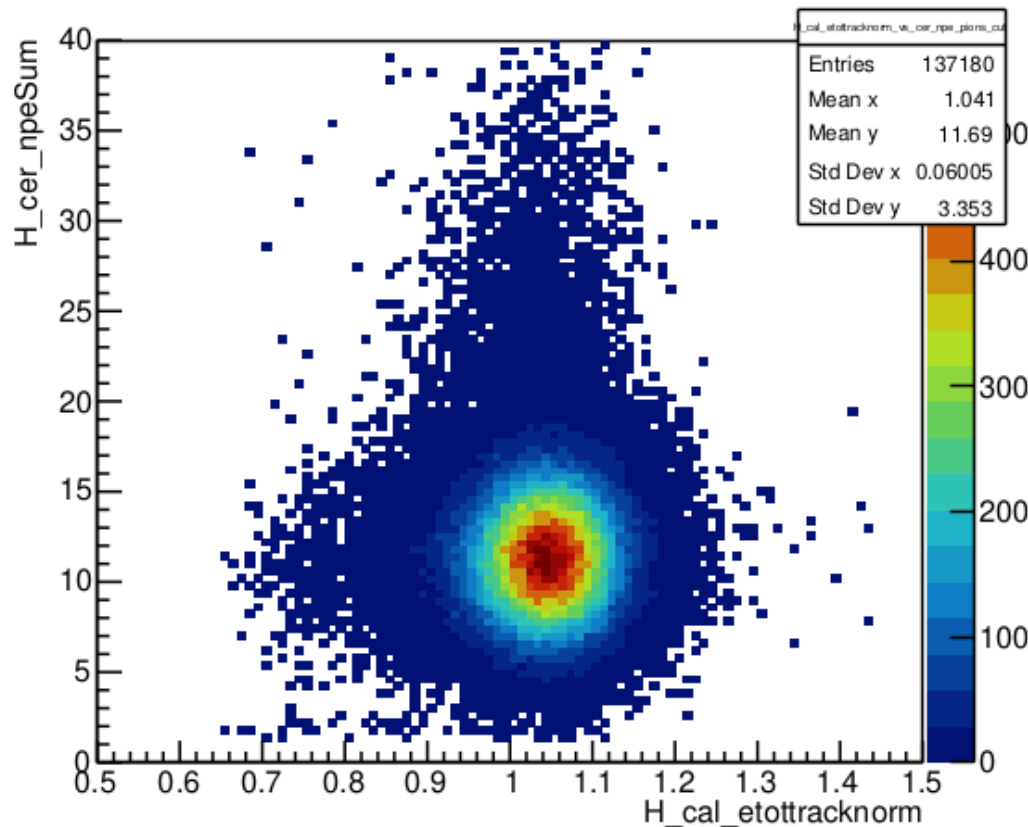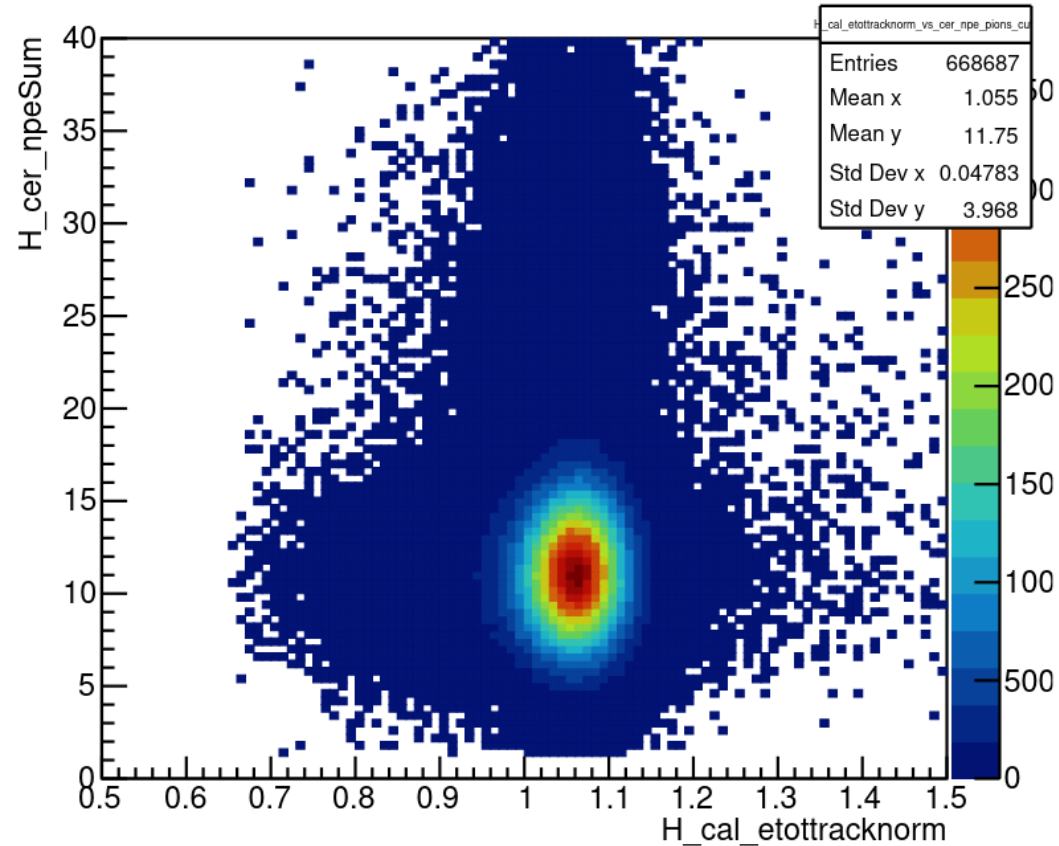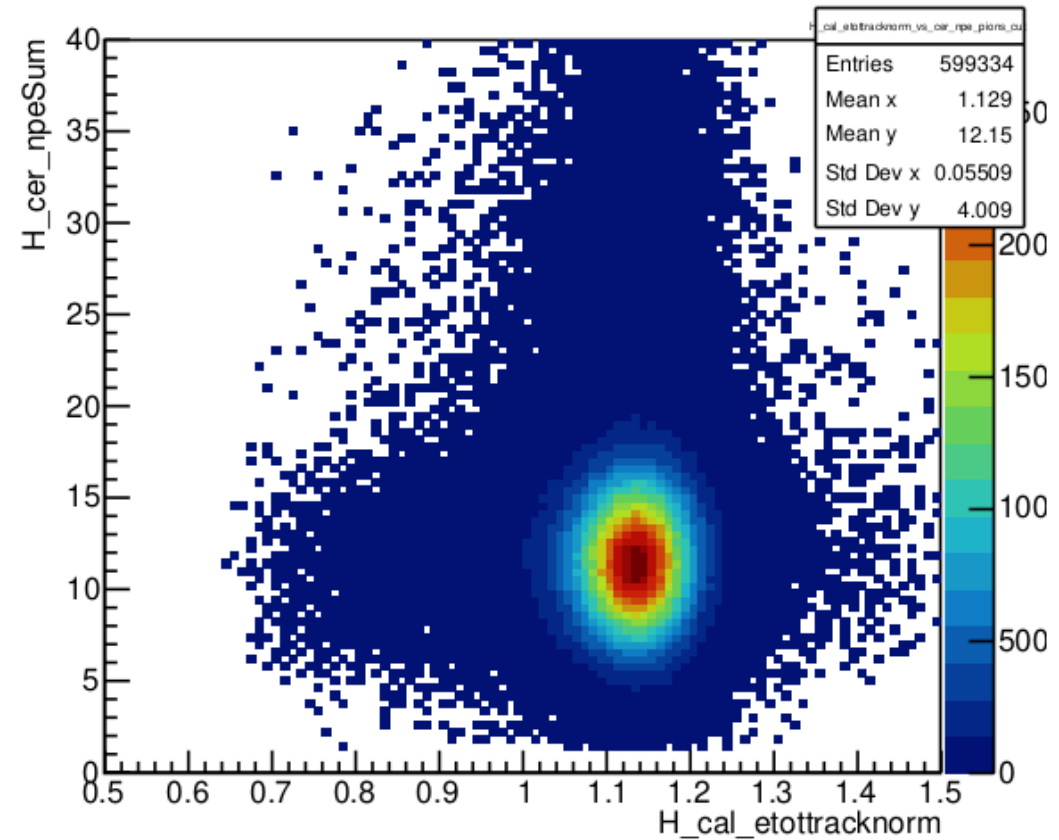HMS cal etottracknorm vs HMS cer npeSum (with cuts)

Conclusions

- New calibration had very little effect on distribution.

- Makes sense as the old parameters were not changed too much (online had 10.17, 9.4)

- Moving on to ngcer calibration