



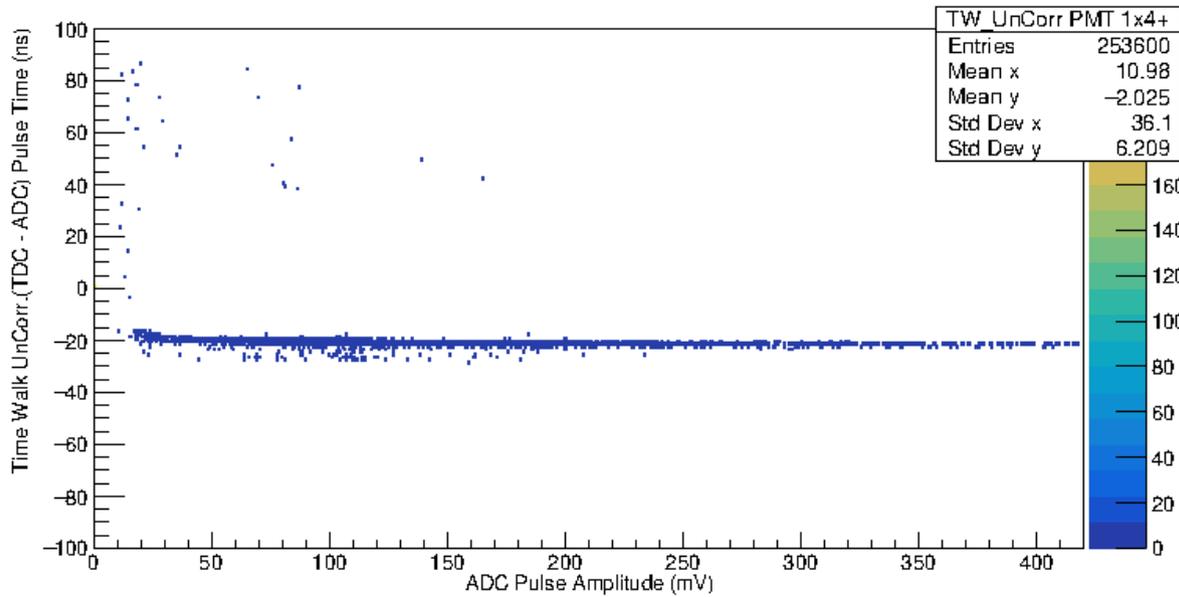
Hodoscope Calibrations Update

- Updated Scripts to use up to date Database files
- SHMS calibration code currently has a null pointer error. (looking into it)
- HMS plots no longer empty but Calibration is not working properly

The following is example slides from the calibration, a “Good” one and a “Bad” one to show the state of calibration.

Time Walk “Good”

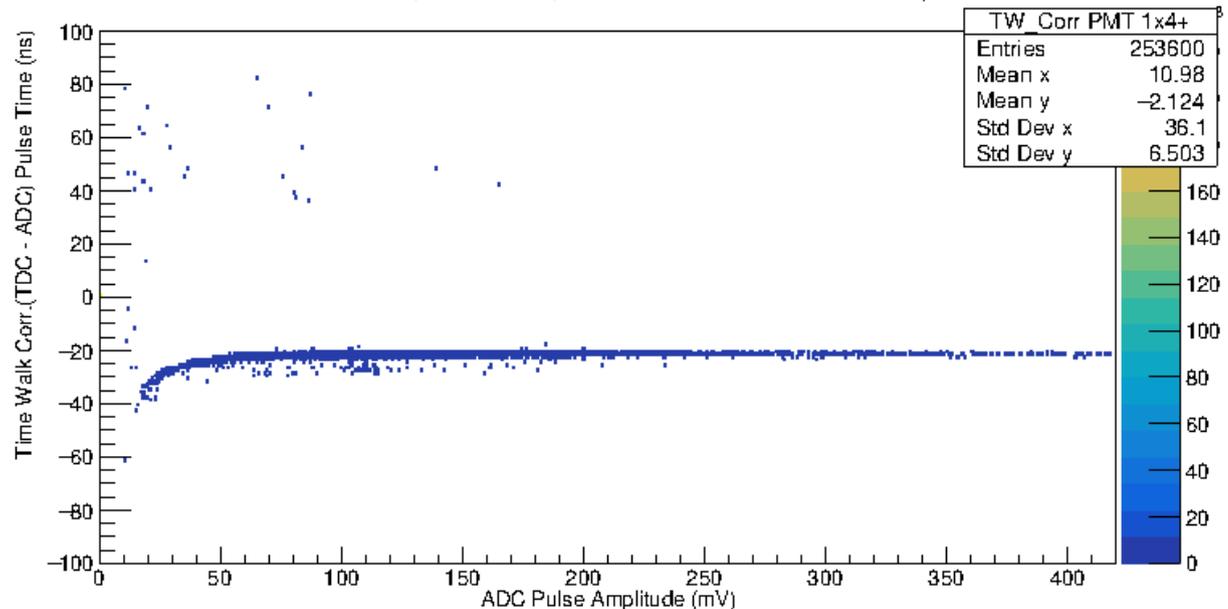
PMT 1x4+: UnCorr. (TDC - ADC) Pulse Time vs. ADC Pulse Amplitude



Run 7841
PMT 1x4+

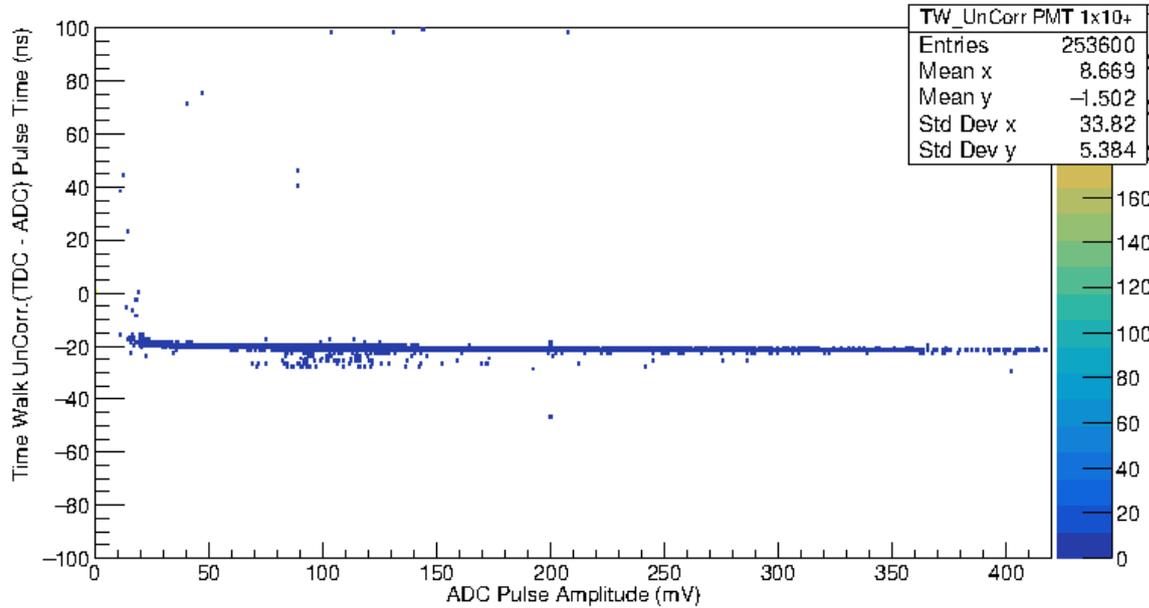
The Time Walk correction is over correcting this data

PMT 1x4+: Corr. (TDC - ADC) Pulse Time vs. ADC Pulse Amplitude



Time Walk “Bad”

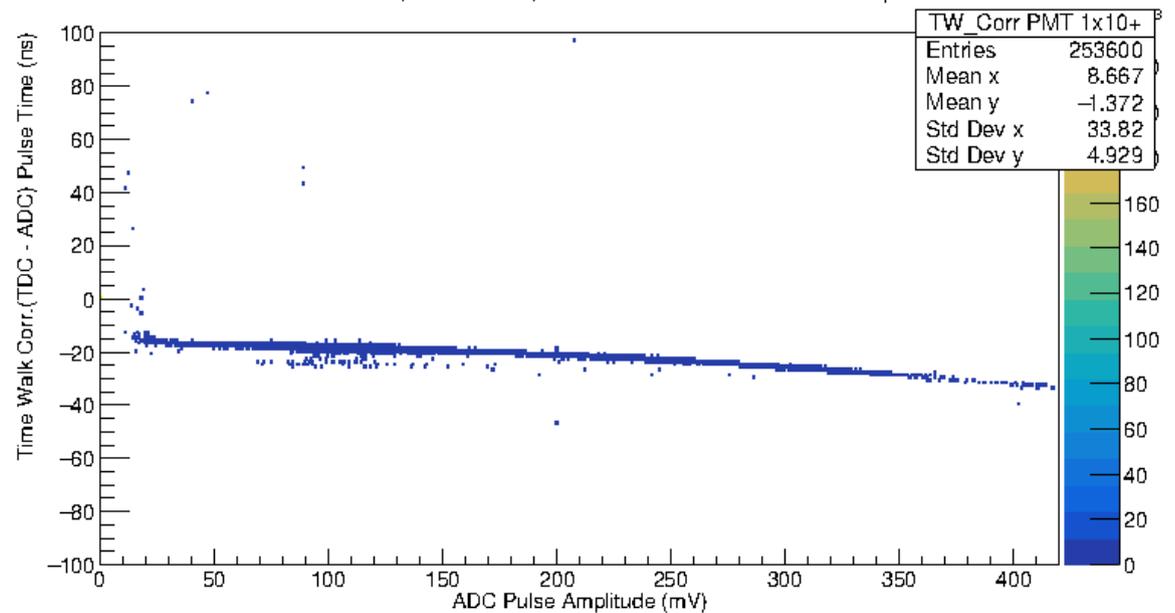
PMT 1x10+: UnCorr. (TDC - ADC) Pulse Time vs. ADC Pulse Amplitude



Same run,
PMT 1x10+

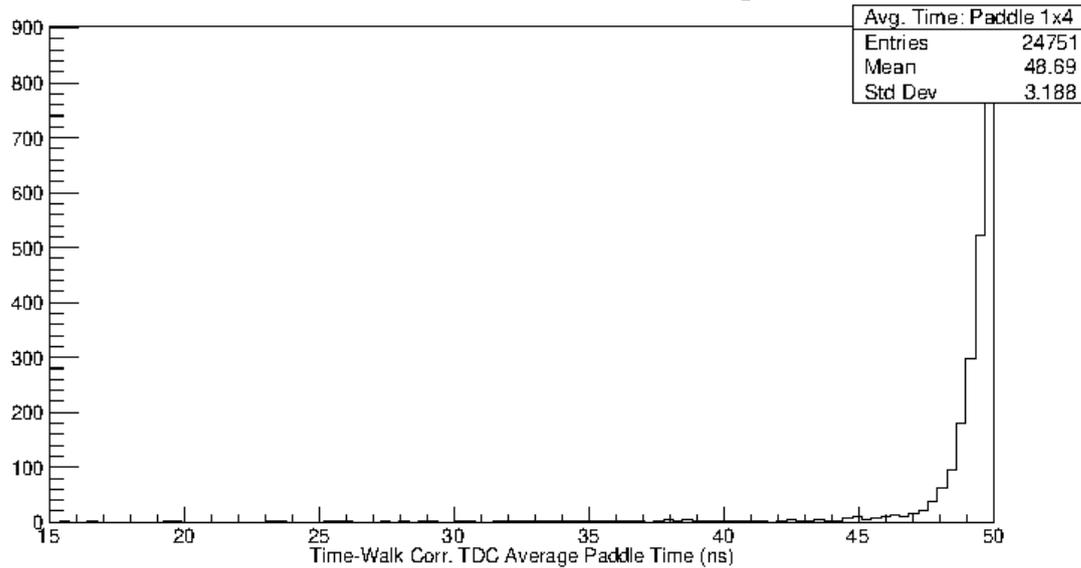
Over corrected the
other way

PMT 1x10+: Corr. (TDC - ADC) Pulse Time vs. ADC Pulse Amplitude



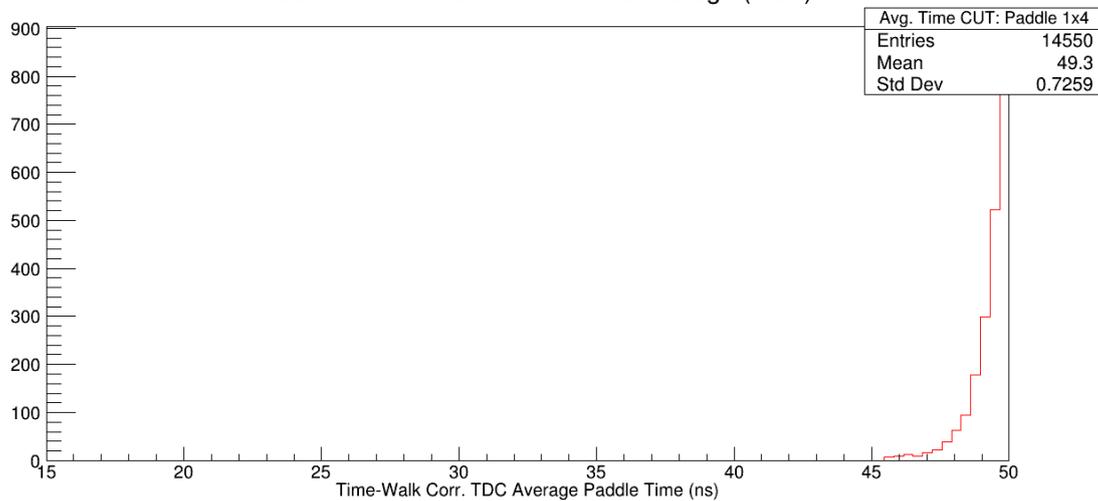
Average Time “Good”

Paddle 1x4: Time-Walk Corrected Average Time



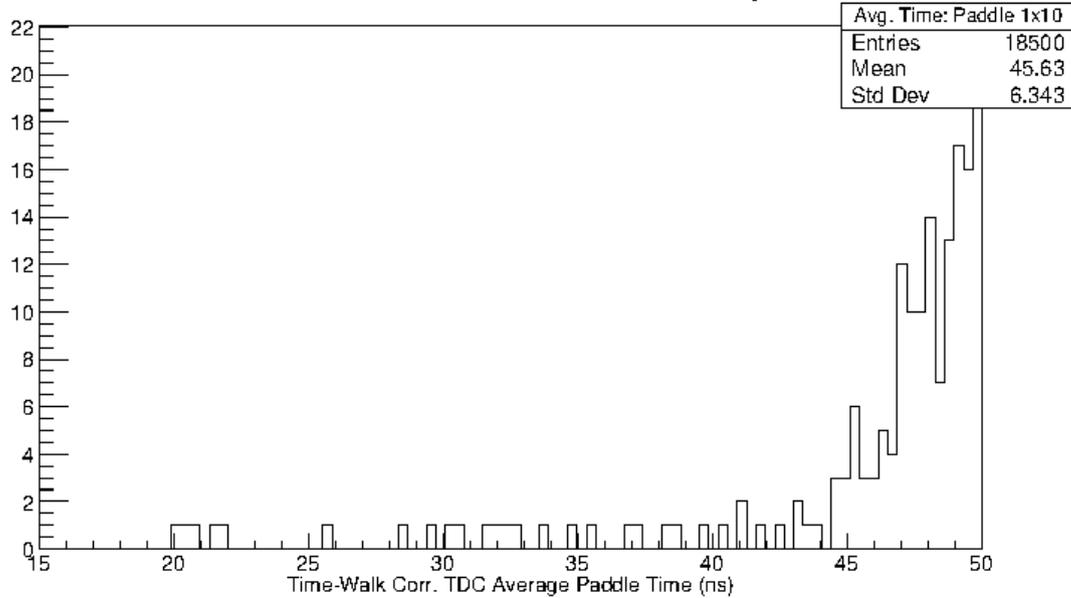
Clearly the new offsets have moved this time window

Paddle 1x4: Time-Walk Corrected Average (CUT)



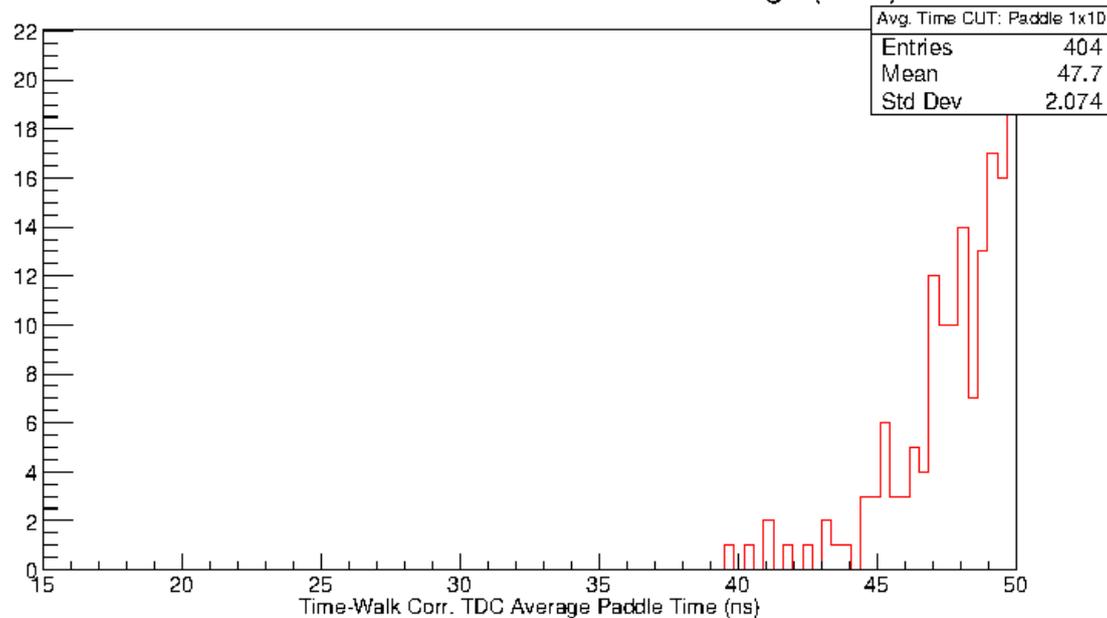
Average Time “Bad”

Paddle 1x10: Time-Walk Corrected Average Time



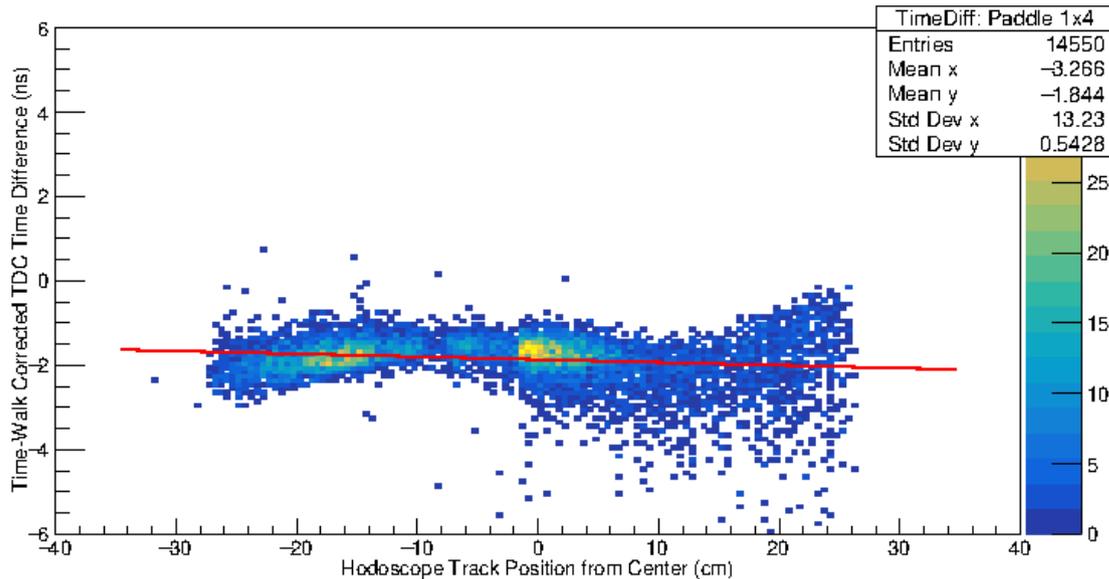
Here the cut is taking almost all the events

Paddle 1x10: Time-Walk Corrected Average (CUT)



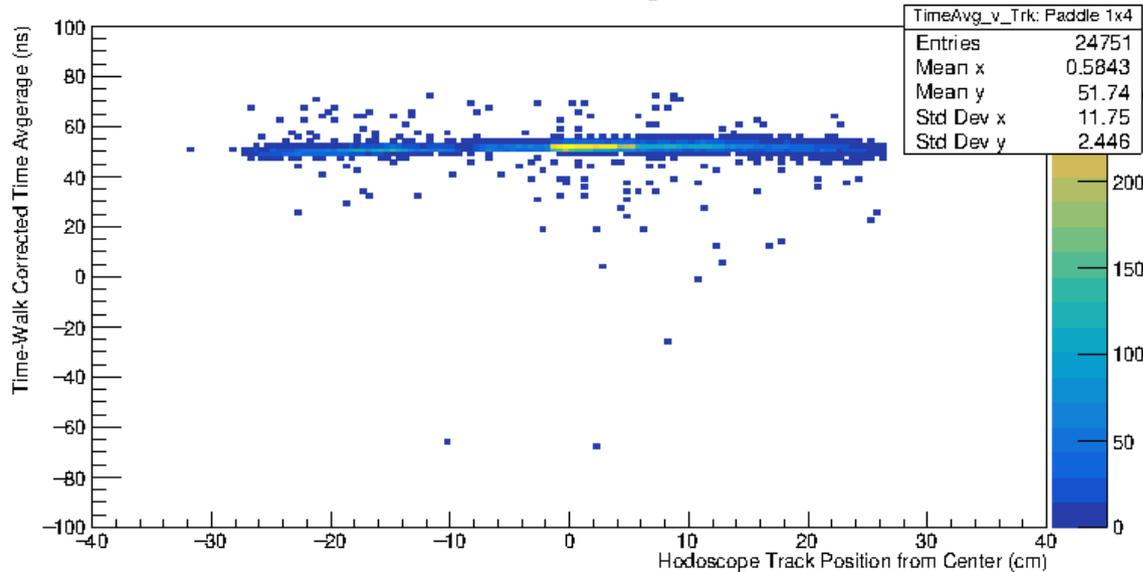
Distance Correction “Good”

Paddle 1x4: Time-Walk Corr. TimeDiff. vs. Hod Track Position



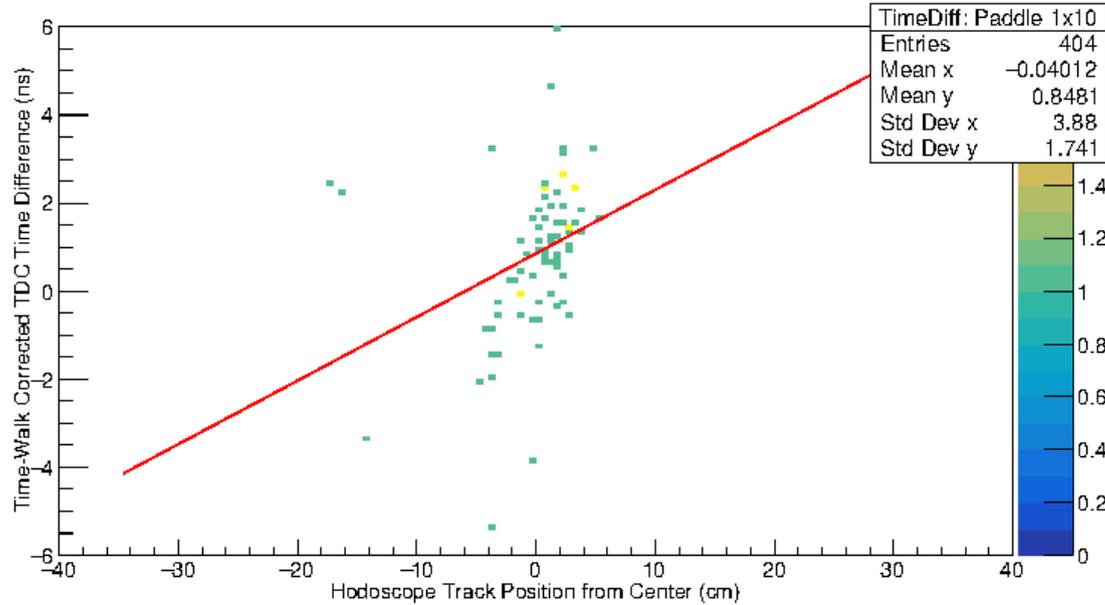
The track position correction still work where there are good statistics

Paddle 1x4: Time-Walk Corr. TimeAvg. vs. Hod Track Position



Distance Correction “Bad”

Paddle 1x10: Time-Walk Corr. TimeDiff. vs. Hod Track Position



Paddle 1x10: Time-Walk Corr. TimeAvg. vs. Hod Track Position

