



Timing Update

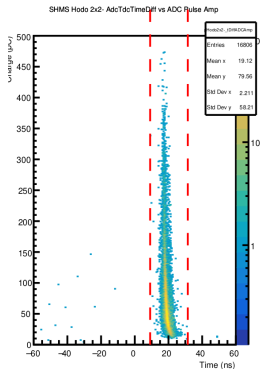
**Stephen Kay
University of Regina**

05/11/19

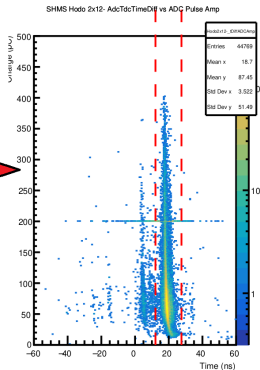
Ref Times and Detector Times Update

- Ref times found by Richard and Stephen both pretty similar, param files have been updated on github
- Richard adding in trigger ref times
- I also added a first pass of the detector reference time param files
- Windows may be too restrictive, will need to see if any issues arise in replaying
- Test and see!
- Also tried updated hcana from Pete Bosted
- Some issue found

SHMS Hodoscope Spectra Comparison



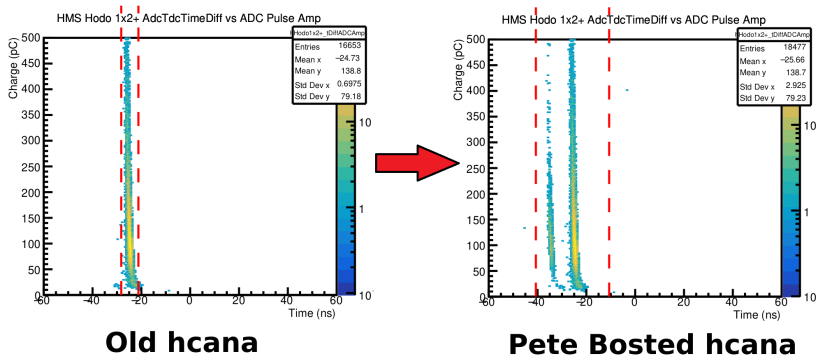
Old hcana



Peter Bosted hcana

Comparison between the 2D SHMS timing spectra replayed with the old version of hcana and Peter Bosted's version.

HMS Hodoscope Spectra Comparison



Comparison between the 2D HMS timing spectra replayed with the old version of hcana and Peter Bosted's version.

Discussion

- Still need ADC retime pulse amp cut with Peter's hcana or get ghost band.
- Introduces new problems though, ghost band in HMS hodoscope and weird horizontal band in SHMS
- Will need some of the changes for Physics analysis, but doesn't look like it's there yet
- Continue with old hcana for calibrations?
- Some detectors seem unaffected by the change anyway but the hodoscope looks like it's going to be problematic

Remember Remember...



November 5th is Guy Fawkes (Bonfire) night in the UK. Historically it was a pro protestant celebration, nowadays it's mainly just an excuse to light a big bonfire and launch some fireworks!