

Analysis Update

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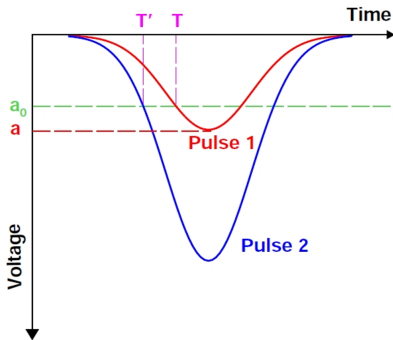
21/05/19

Calibration Scripts

- Scripts to run all of the steps in the Hodoscope/DC calibrations can be found on the farm in -
`/group/c-kaonIt/Stephen_Scripts`
- Work on HMS or SHMS, just need to provide spectrometer flag to the script when running it
- Some issues with running the Hodoscope script on the farm, seems to be a pathing issue in the way the calibration root macro works.
- Both run interactively

Hodoscope Calibration

- Tested the Hodoscope script out on the HMS for some carbon runs (7864/7865)
- Calibration is to adjust for the "time walk" in the hodoscopes
- Variation in timing depending upon pulse strength

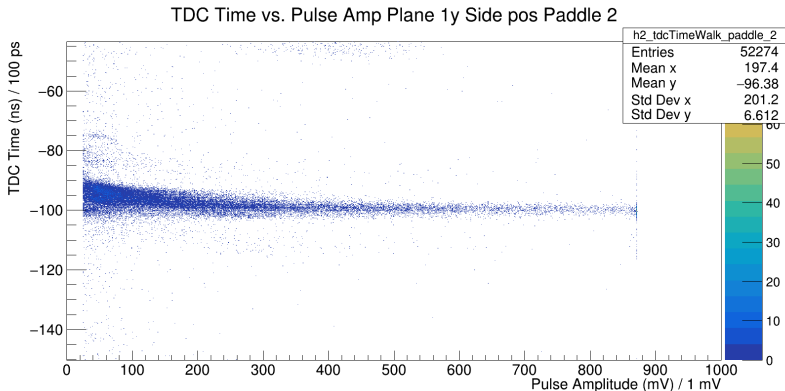


Hodoscope Calibration

Five steps to calibration process

- Replay with relevant flags set
- Create time walk histograms
- Calibrate based upon histograms
- Replay with new calib files
- Fit to the new calibration

Hodoscope Calibration



Hodoscope Calibration

- Some of the TW plots look ok... others don't
- Need to tweak Ref time windows (again) for it
- Looks like hit selection windows in thms.param and tshms.param are completely open currently, need to tweak!
- Final stage also looks like it will have some issues in terms of ranges being fixed in the code

PionLT Software Setup Thoughts

- Repository renaming *seems* to be quite easy
- People may need to reset remote/upstream for their forks
- People should commit their latest work to their forks and we can try and rename it today
- Switch it to hallc_replay_lt?
- Shouldn't affect much, people will need to alter paths slightly
- Add new submodule UTIL_PION, can then start setting up some scripts in here for pion analysis, on Kaon and Pion LT data