

# PD Updates

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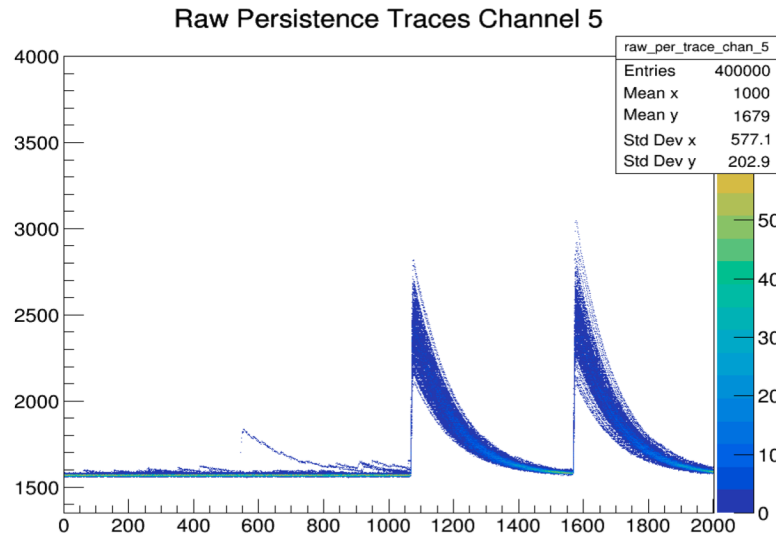
11/15/2018

# Detector Calibration Module (DCM) tests

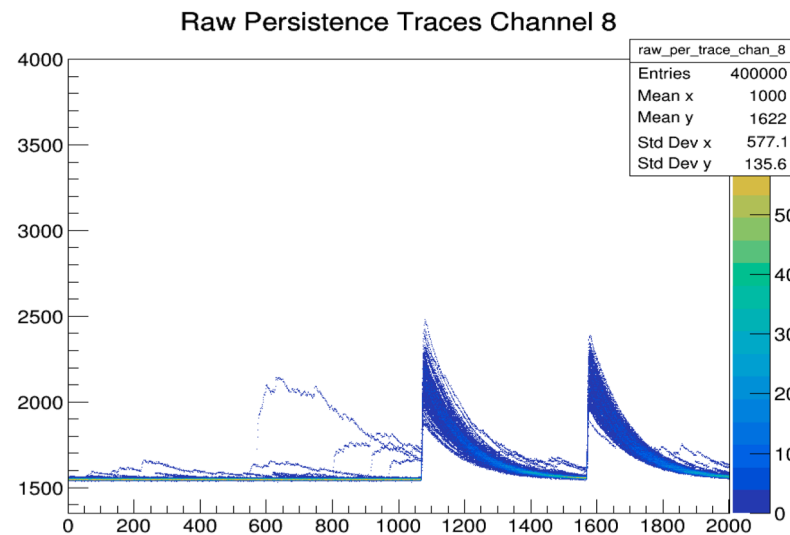
- Updated the firmware so that DCM can sync with the timing system
- One of the goal was to trigger on the DCMs (thanks to Jen)
- We were able to trigger the rack-side DCM (DCM 1) yesterday
- Today morning, found that the fiber was connected in the wrong timing port in the DCM 2 (thanks Karol)
- Now we are able to trigger both DCMs and can flash all LEDs simultaneously.

# Triggering DCM 1 pulses

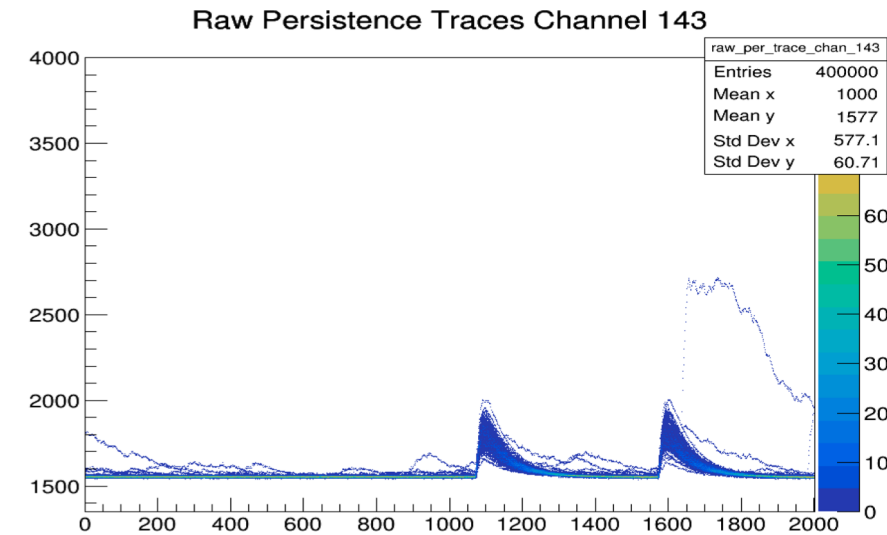
FNAL bar channel  
SSP 101 (DSRas)



IU bar channel  
SSP 101 (DSRas)

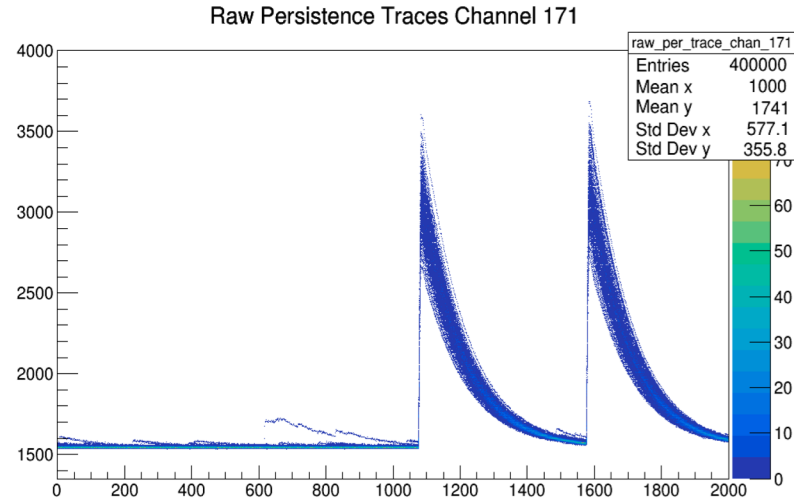


ARAPUCA channel  
SSP 304 (USRas)

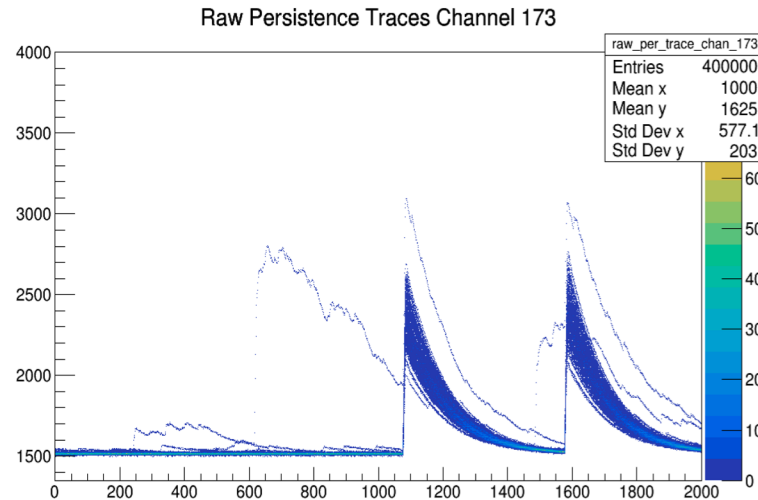


# Triggering DCM 2 pulses

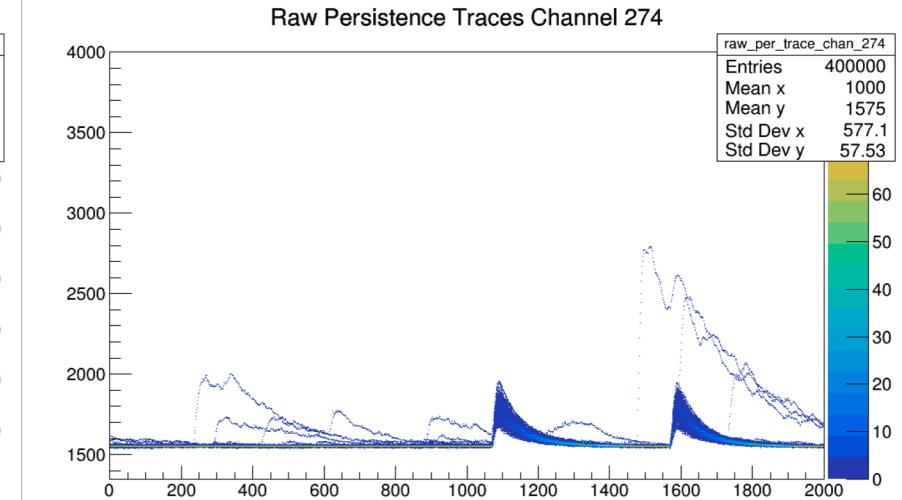
FNAL bar channel  
SSP 403 (DSDas)



IU bar channel  
SSP 403 (DSDas)



ARAPUCA channel  
SSP 603 (MSDas)



# Next Steps

- Correct for the offset between DCM pulses and the start of the readout window
- Implement the DCM trigger into the detector system
  - Need help from Jen and timing group
  - Jen offered to build a DIM interface so that a SC window can communicate to DCMs
- Take bias scans for MPPCs with CRT system included (requested by Bryan)