

# PDS status and plans

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Of behalf of the PDS team

# Status

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- LED calibration almost completed (see Julio's talk)
- First version of DQM released (see Renan's talk)
- Last IV curves taken on Tuesday
- DAQ errors:
  - Unexpected chunk size: 1872 (observed)  $\neq$  1864 (expected).
    - Solution: Modification in firmware by Carlos + Variable Trigger threshold for different endpoints (100-200 adc)
  - Board in slot 9: response from board was not parsed correctly for 5 times.
    - Solution: used previous version of Daphne app by mistake
- Running smoothly with all daphnes and only 7 dead channels (1 in APA1 and 6 in APA2)

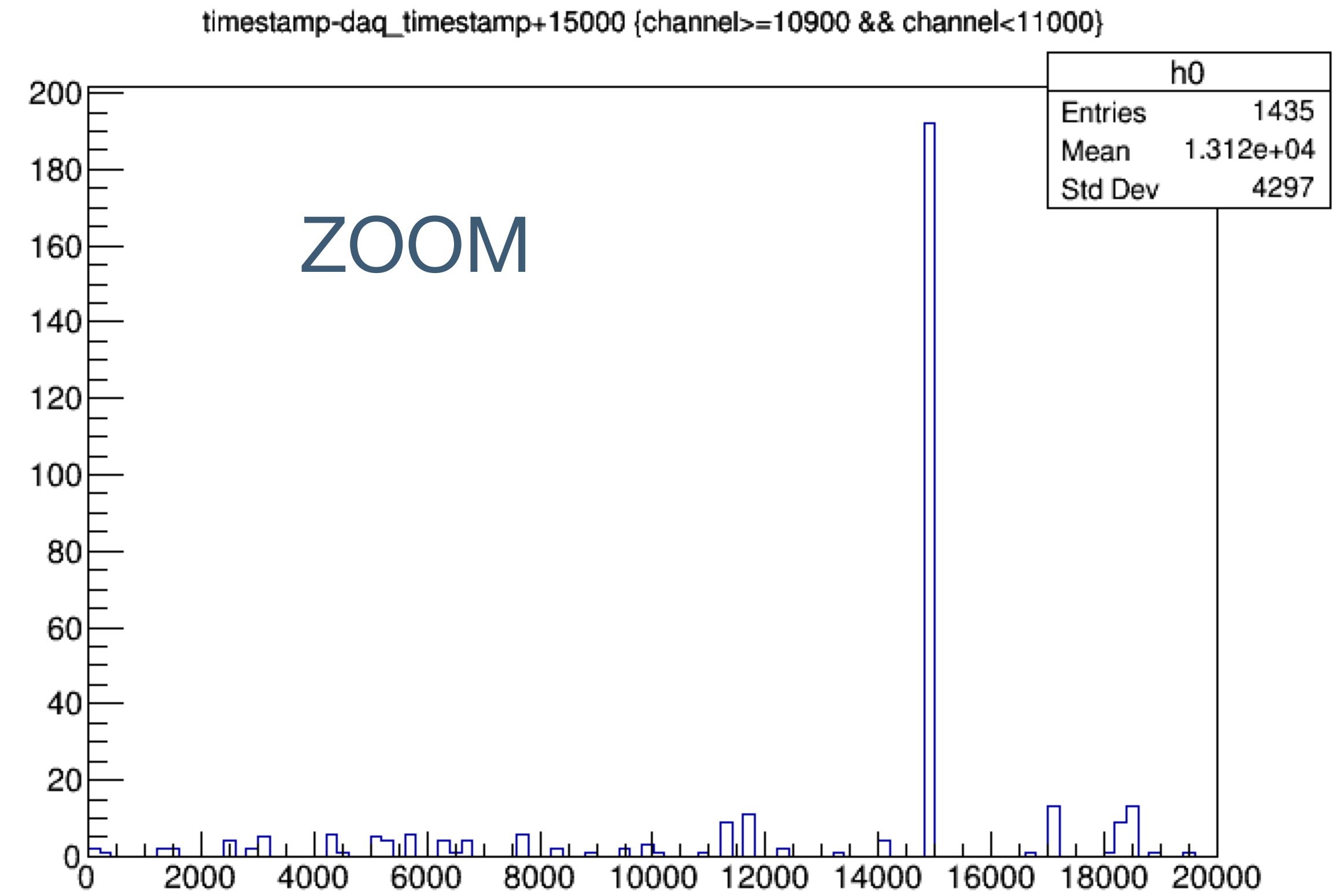
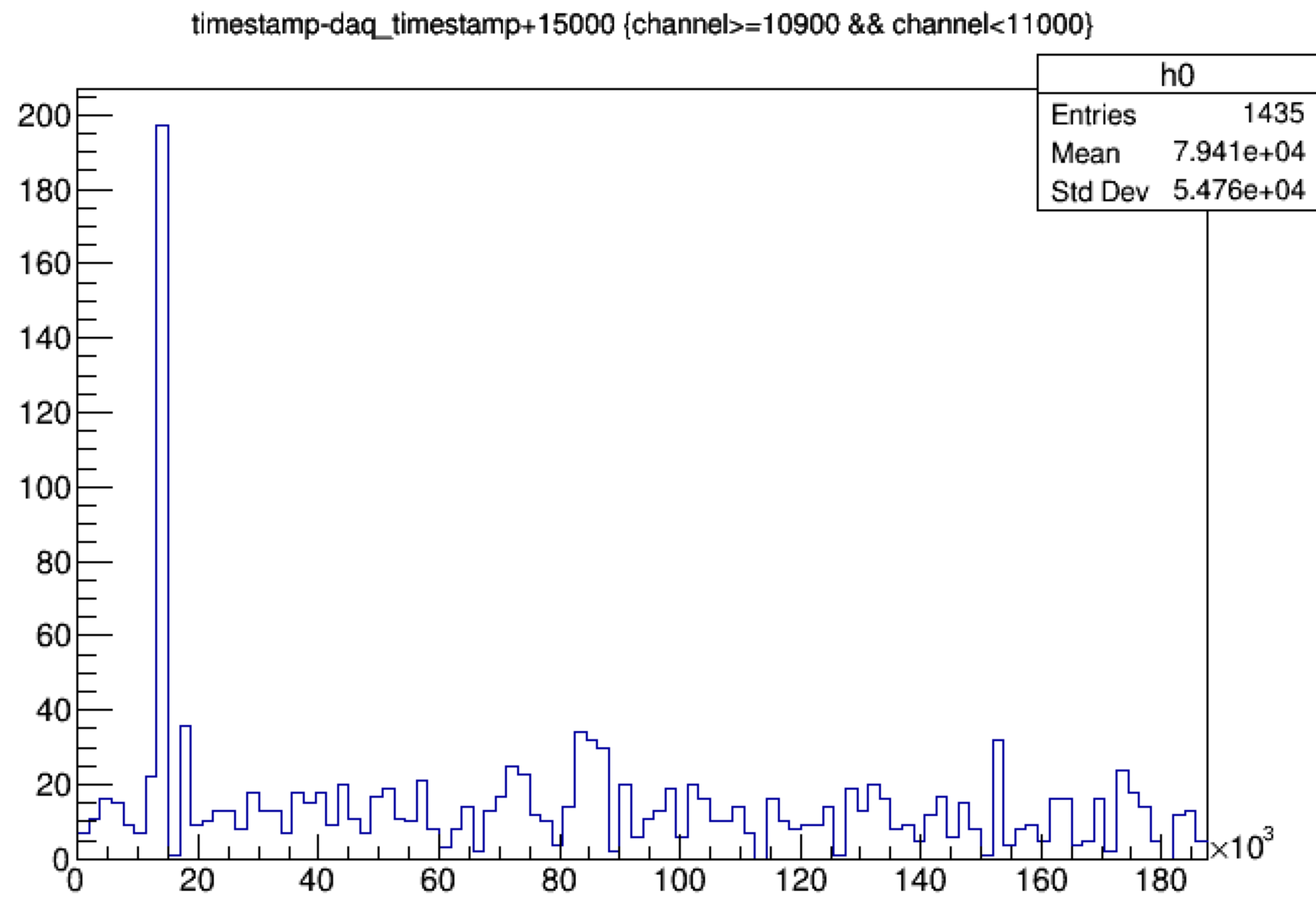
# Plans for this and next week

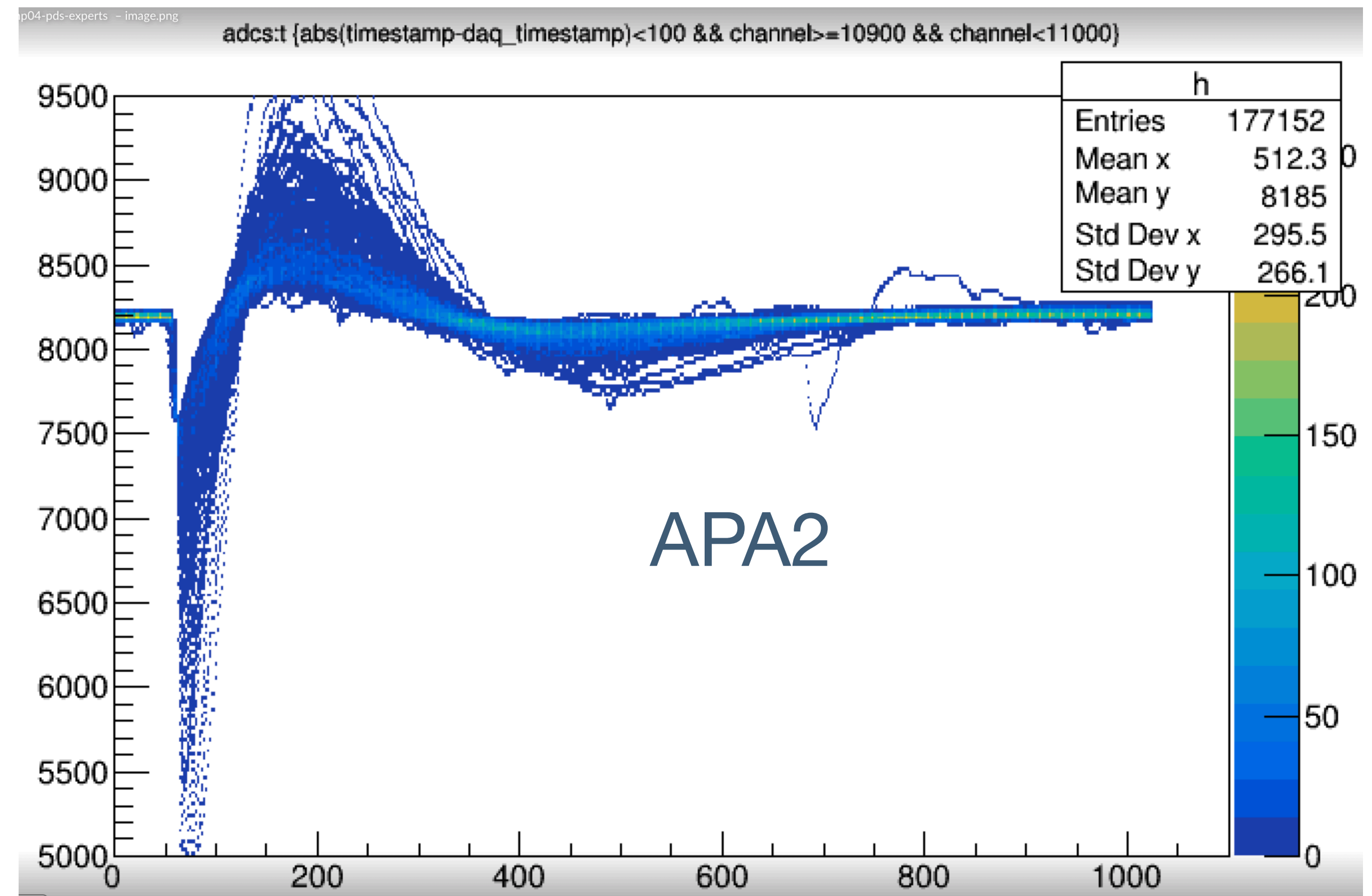
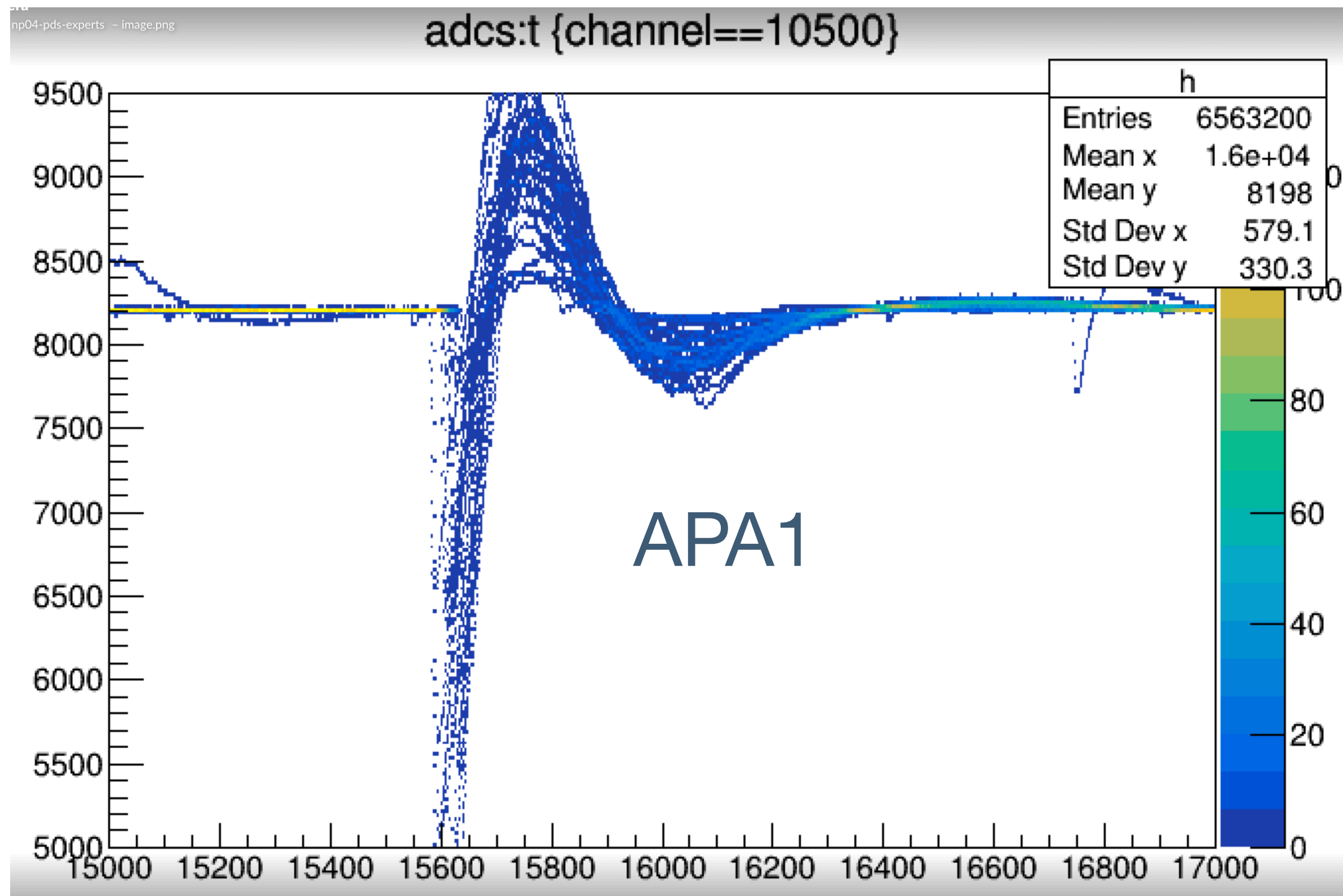
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- Beam ends next wednesday
- We want to advance with the waffles and the data analysis. Focus mainly on:
  - Compare PDS and beam timing. Study PDS timing resolution
  - Light yield vs beam energy and particle type
- Then we will have two weeks with no beam. We will then focus on:
  - Finalize LED tuning (APA3 top row)
  - Self trigger studies (well advanced)
  - Increase the number of fiber links per DAPHNE to allow lowering the trigger threshold

# First beam

- APA2 timestamp





- It should be straight forward to reproduce this plot from protoDUNE-SP

