

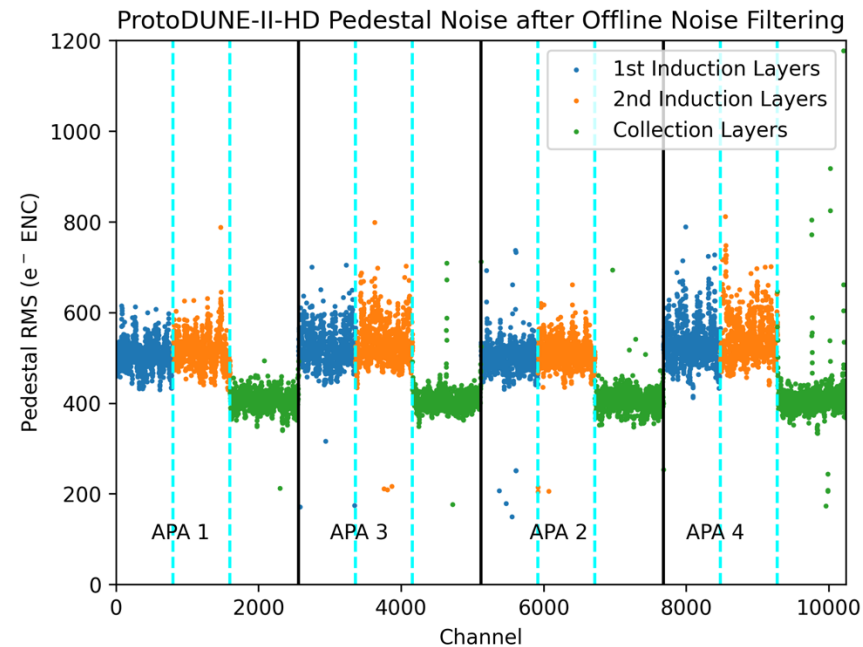
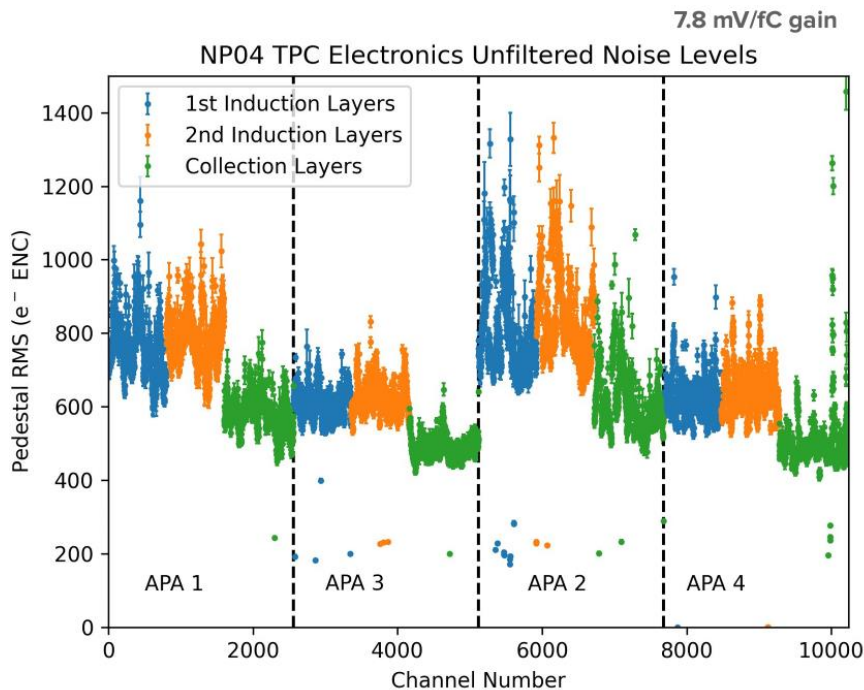
# CERN Activities in FY25 and the Remainder of FY24

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27-August-2024

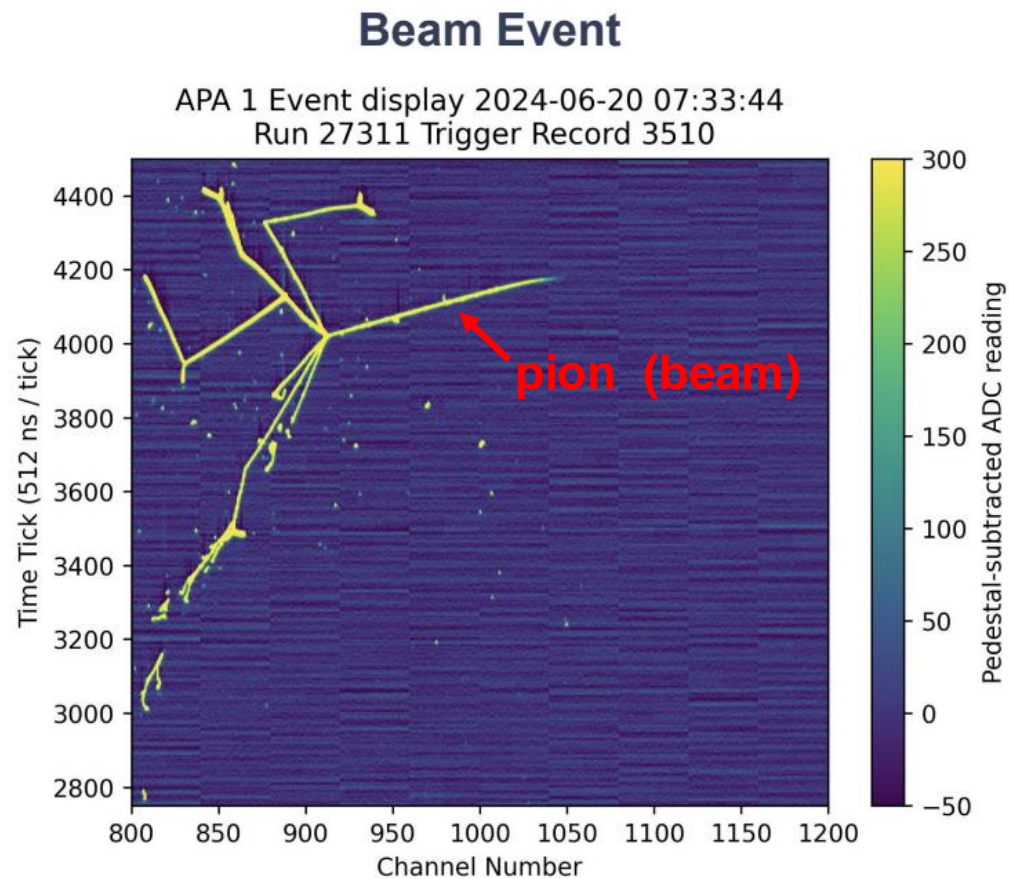
# NP04

- NP04 is in the middle of a 10-week beam run
- TPC electronics is running very reliably
- 40 FEMBs on four APAs  $\rightarrow$  10,240 readout channels
- 100% channels alive at the beginning of beam run. Lost 10 channels during operations, likely due to HV discharges



# NP04

- NP04 beam operations ends on 18-September
- Will have some post beam studies from CE and other Consortia
- Focus on NP04 side will transition to production APA testing using the APA Cold Box
- Two production APAs (one upper and one lower) will be shipped from UK to CERN in September
- Target to insert the first APA inside the cold box before the liquid argon transfer from NP04 to NP02 begins
- A total of about 20 APAs will be tested in the next ~two years at CERN



# NP02 and CRP Cold Box

- Completed the series of CRP6 cold box tests. Validated the new FEMB cable connection design
- CRP Consortium is planning another test in November to QC the new anode plane PCB
- I&I and CRP Consortia are discussing changing the bottom CRP installation scheme. If the new scheme is adopted, we will need additional cold box tests to verify the changes. A decision will likely be made next month
- NP02 TCO closure will start this week
- Consortia will need to sign off in the Technical Board next month
- CRP4 and CRP5 have been in NP02 for over a year

# NP02

- All readout channels on CRP4 and CRP5 are operational (100% live). However, about 90 channels do not have electrical connections to the CRP strips. They are likely due to issues with the CRP edge cards
- Purging and cool down start in early October
- Filling will likely start in early November. NP02 should be ready for cosmics data taking before the end of the calendar year
- Beam schedule is still not known. Likely to request 8 weeks of beam to start in April or May 2025. Good time to send grad students and postdocs to CERN for some operational experience