Weekly Meeting 2025.10.29

- CDC :
  - Why does the current of SL1 become so high?
- Test Chamber
  - Trying Tracking
- To do

2025.10.24, Y. Kimura (RARiS D1)

Investigation of Current Increase (~2 μA) in CDC (especially SL1) (2025.10.22)

- Turned on the high voltage (HV) for the first time in six weeks.
- Current returned to the same level as before the cap work.
    - The gas supply had been stopped for about one month.
- Removed the aluminum cover of SL1, but the current did not change.

→ The cause is probably related to the **gas**.

Investigation of Current Increase (~2 μA) in CDC (especially SL1) (2025.10.22)

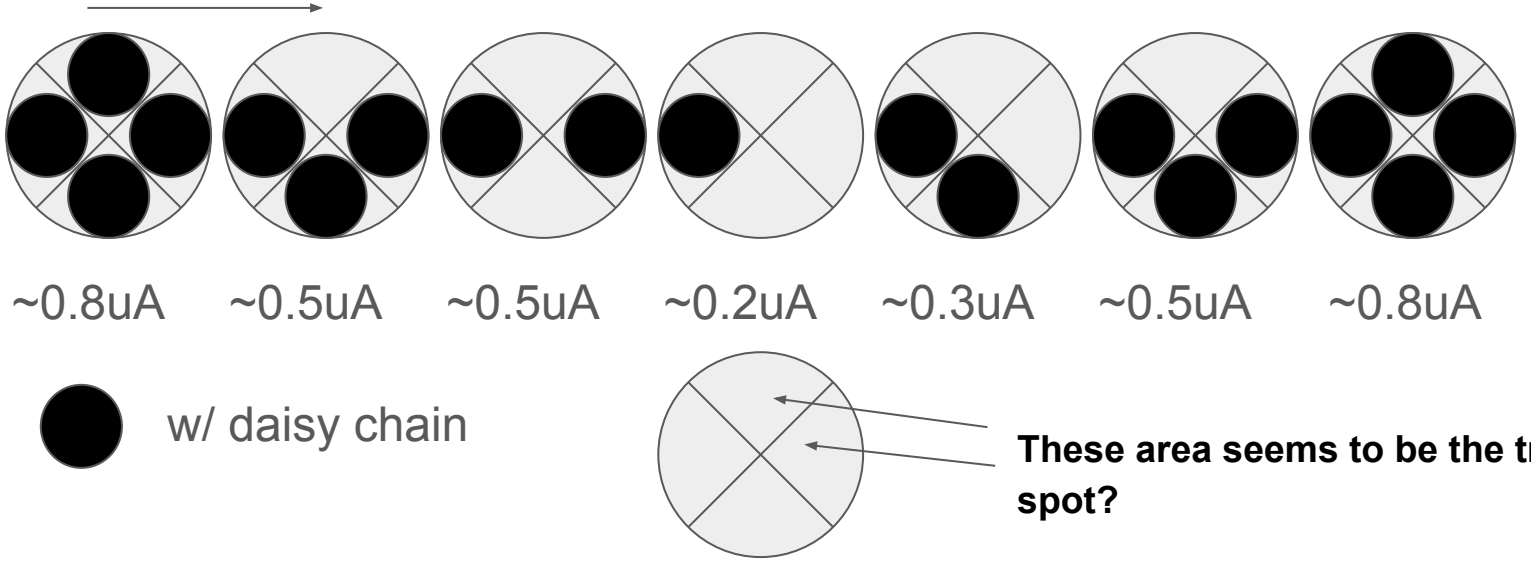
- Swapped the SHV cables between SL1 and SL2
  - The high current (up to 2 μA) appeared on SL2 instead.

- Swapped back the SHV cables, and then swapped the **daisy-chain** cables right after the low-pass filters.
  - Again, the 2 μA current appeared on SL2.

- Therefore, the problem is **not** in the power supply or low-pass filters, but in the **daisy chain or the CDC** itself.

Investigation of Current Increase (~2 μA) in CDC (especially SL1) (2025.10.22)

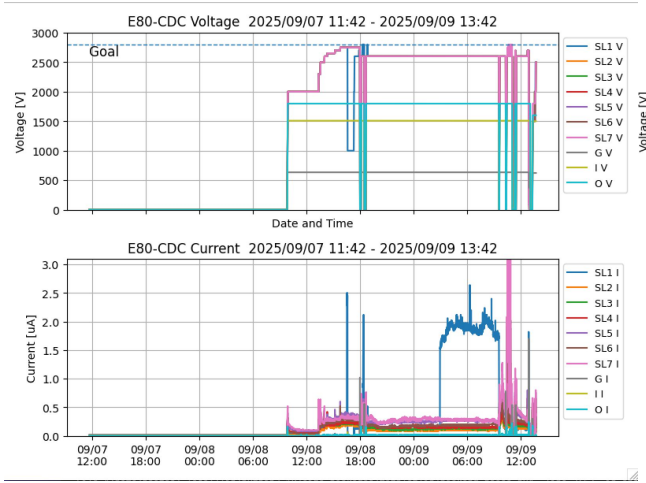
- Divided SL1 into four sections and disconnected the daisy chains one by one.
  - The current did **not** decrease evenly (not 1/4 each time), but changed asymmetrically.
  - It is still unclear how this leads to the 2 μA current spikes.



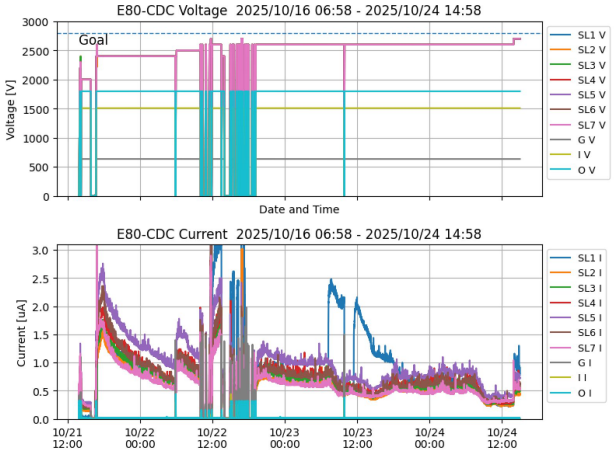
CDC Status

- The current has dropped to the same level as right after the cap work.
  - very good
  - SL1 still often becomes unstable.

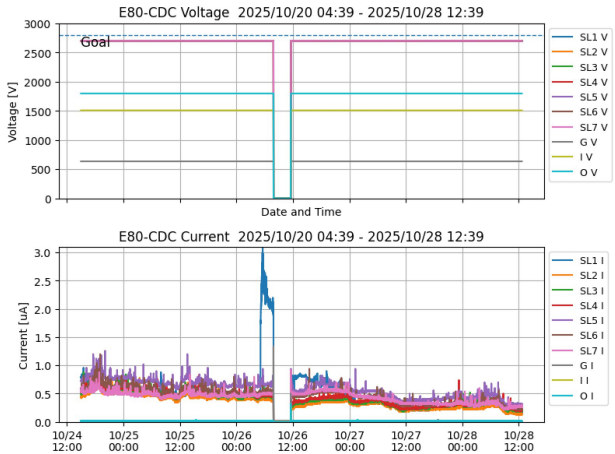
right after the cap work



last week

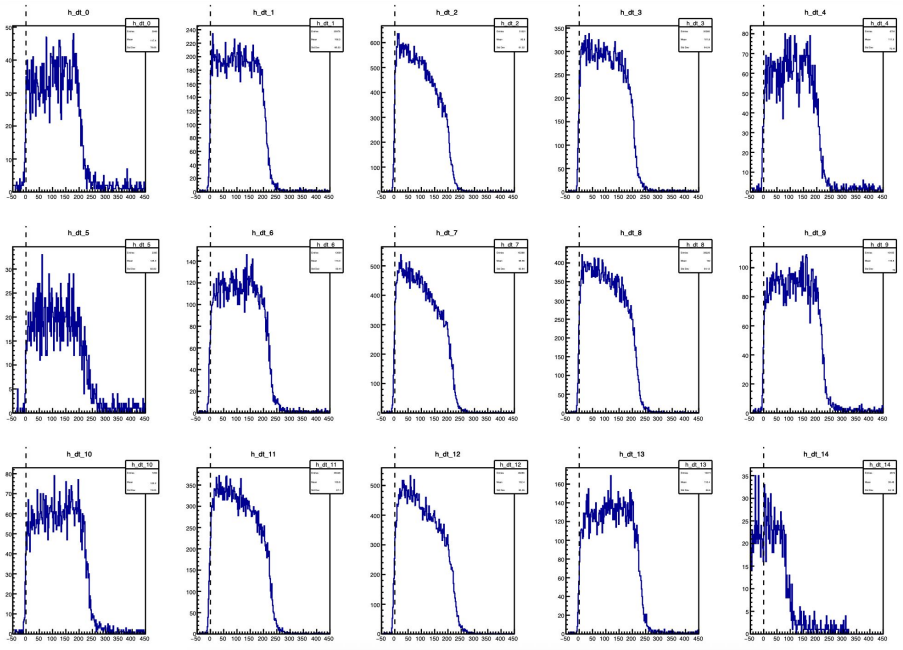


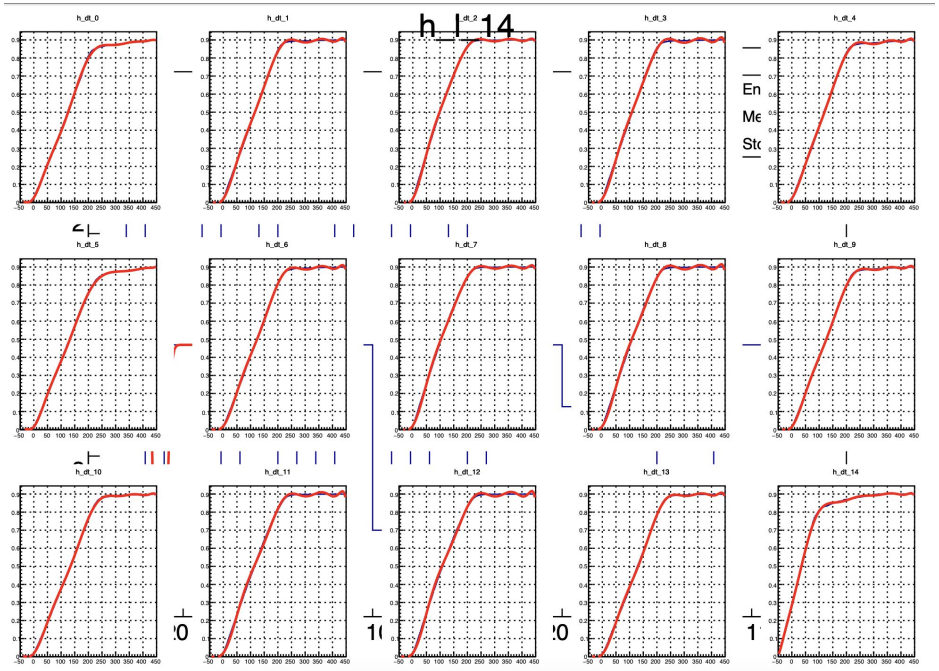
this week



Test Chamber : Tracking, run264

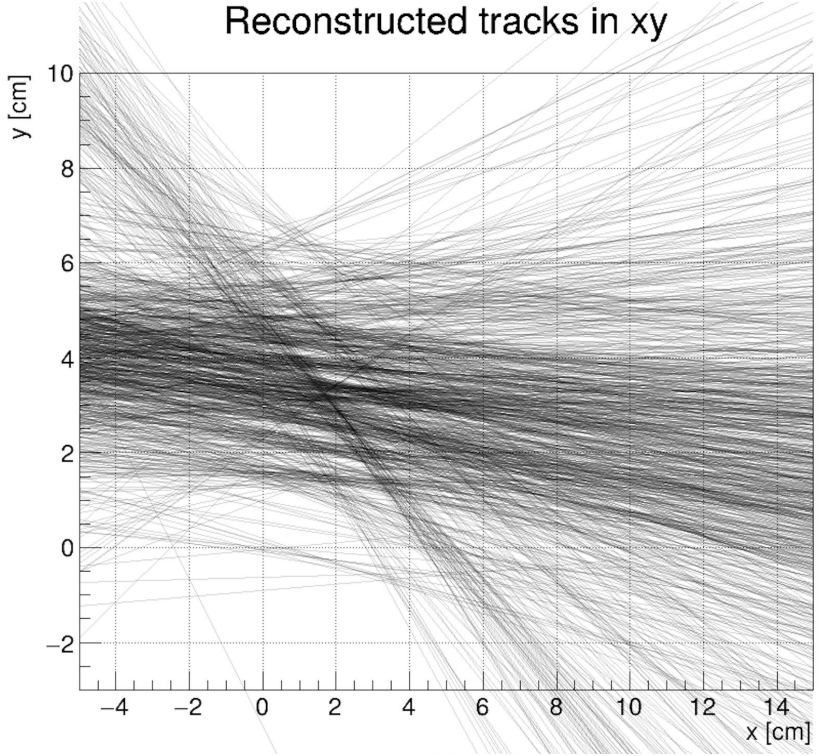
- XT curve

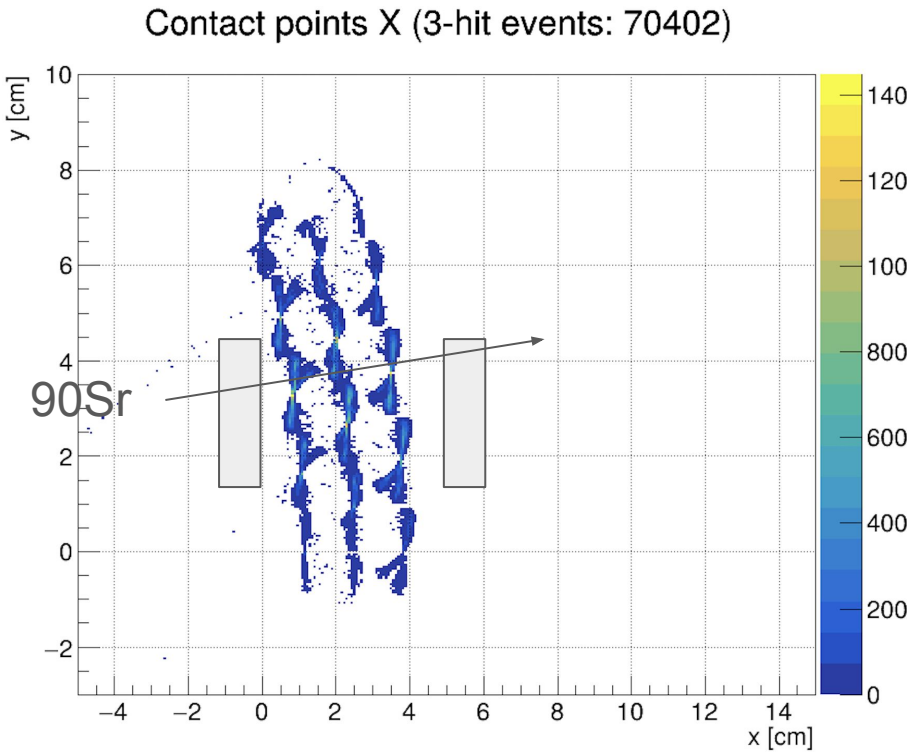




Test Chamber : Tracking, run264

- Tracking with a single test chamber was successful(?)





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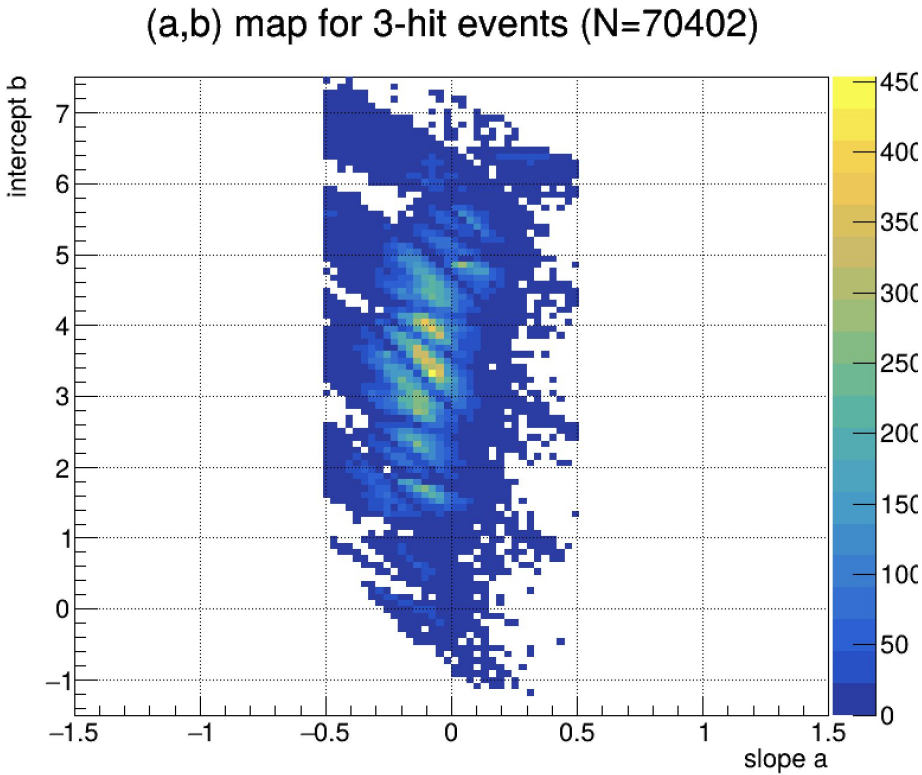

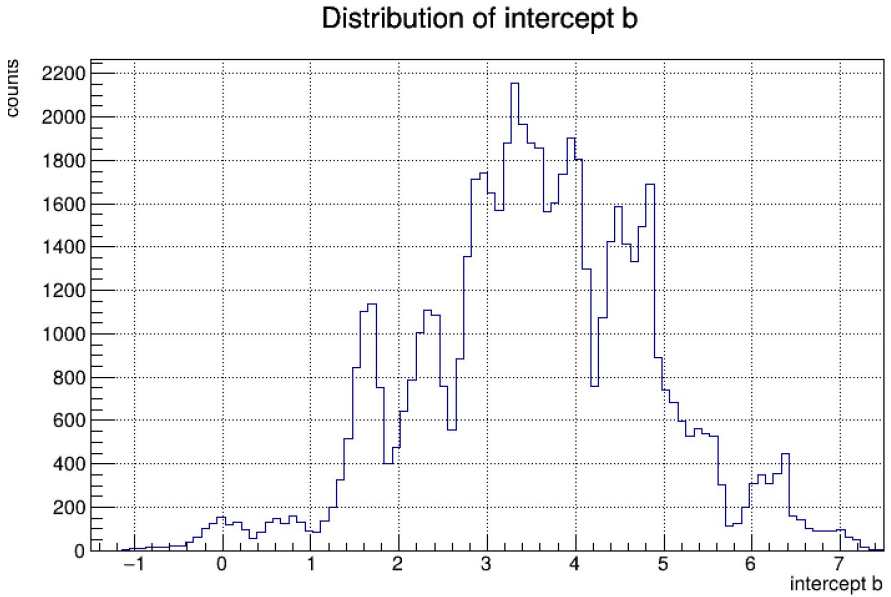

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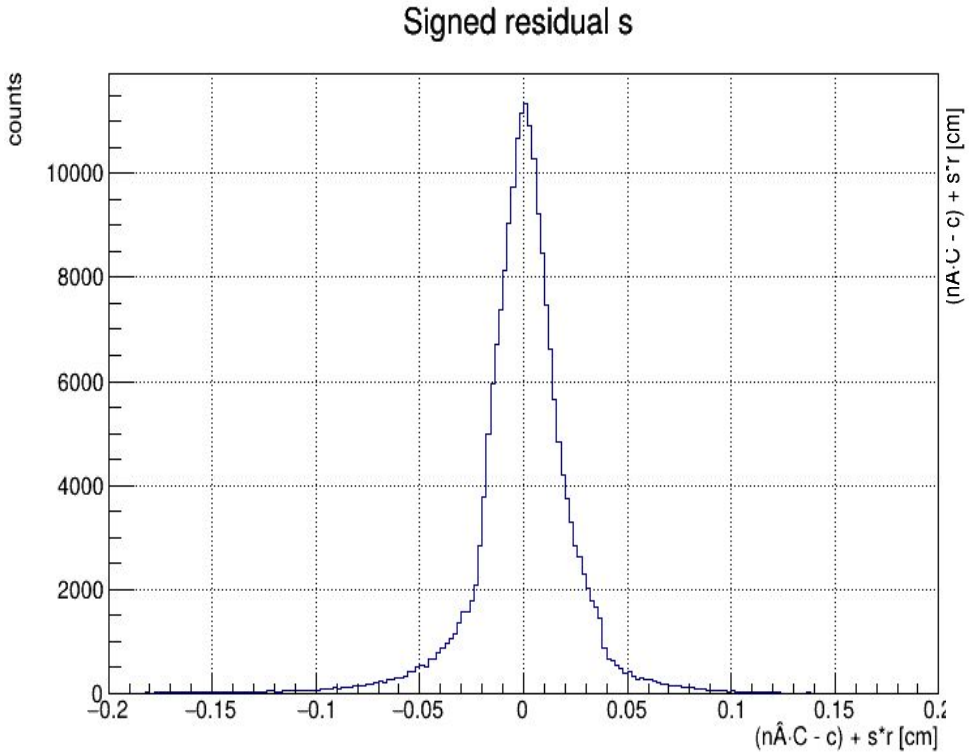

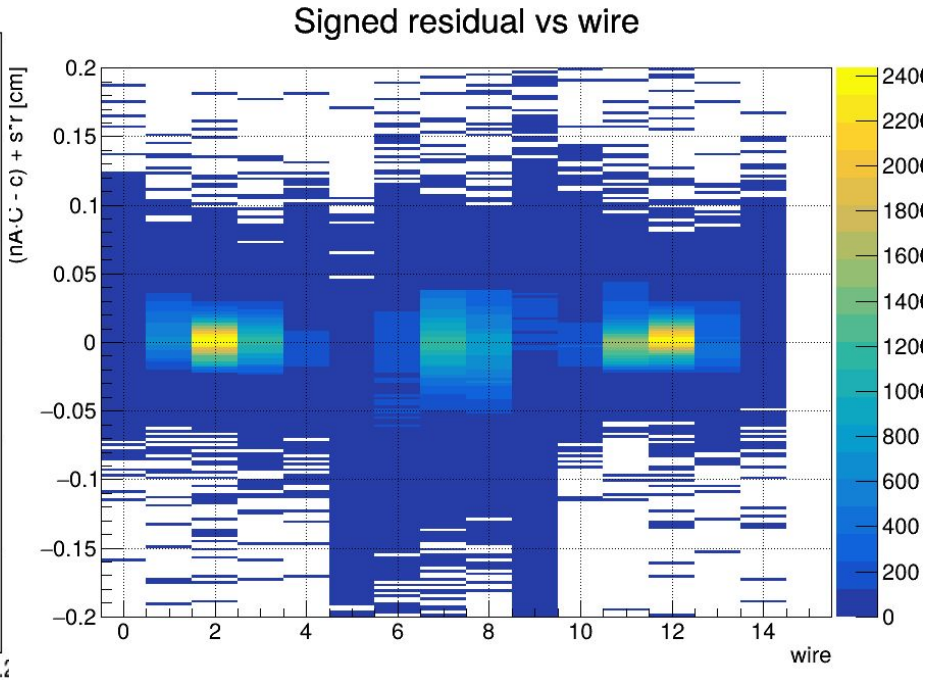

Test Chamber x ASAGI : Tracking

- currently organizing the code for tracking with two test chambers

to do

- Residual Comparison between ASAGI and SONY-ASD
  - Tracking with the two Test Chambers
    (ASAGI-16ch will come in Dec. → Tracking Algorithm ~ in Nov.)
- Analog-out check with SONY-ASD on E80-CDC
- E72 parasite
  - SDC set up with Ohtaka and Tsutsumi?
- E16
  - LG check?
- RARiS WS
  - slide v.0 ~2025/11/9