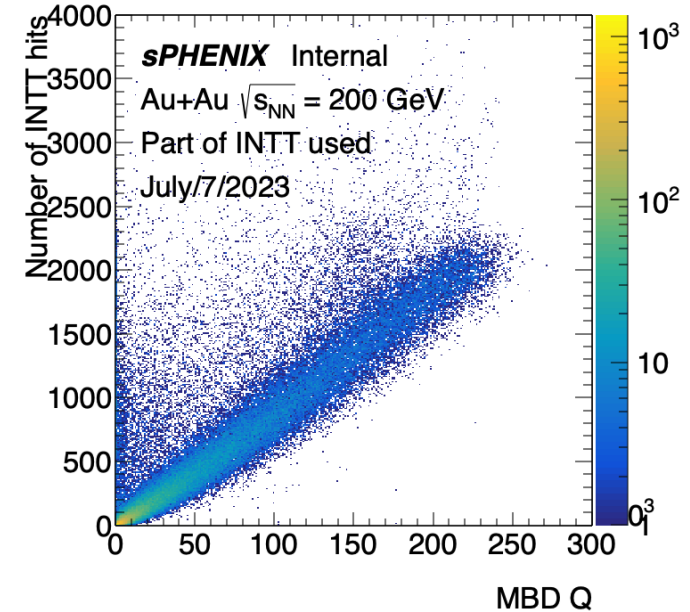
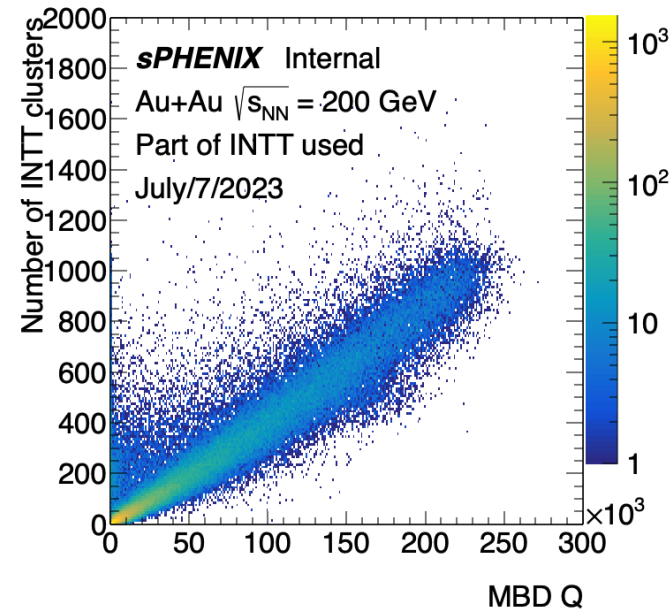


Update of INTT vs. other detectors (MBD, TPOT)

Maya SHIMOMURA

Multiplicity correlation, INTT vs. MBD

- Run 20175
- 550K events
- INTT4 only

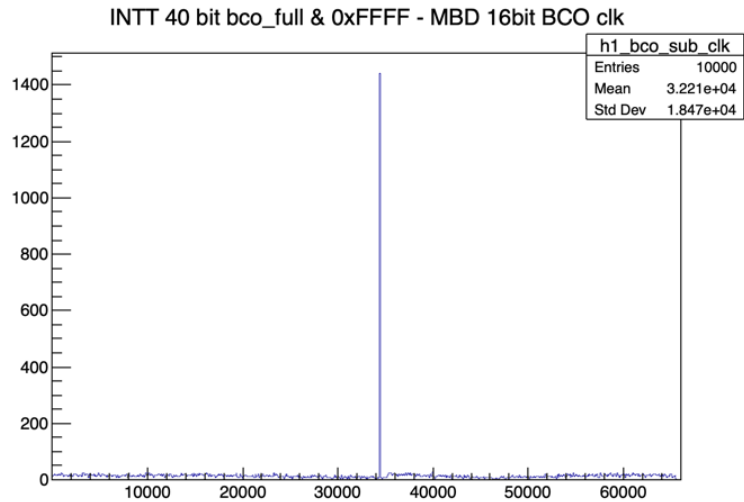


We could see the correlation!

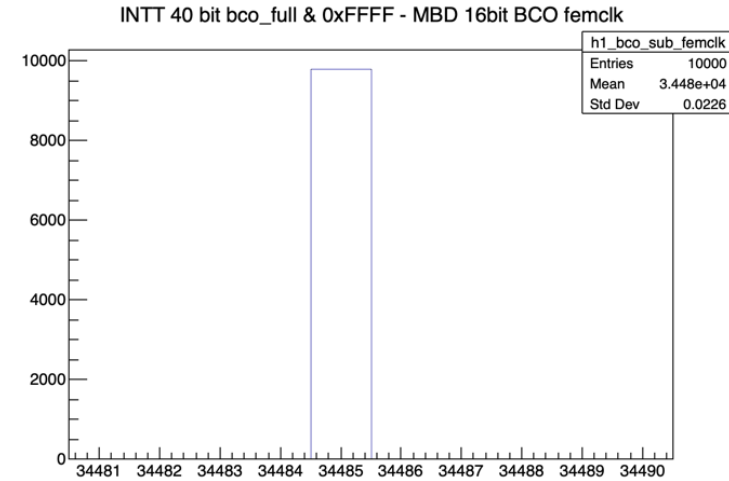
This is the first time we can see the correlation between Felix and DCM.

(INTT BCO_Full & 0xFFFF) - MBD (Fem)CLK

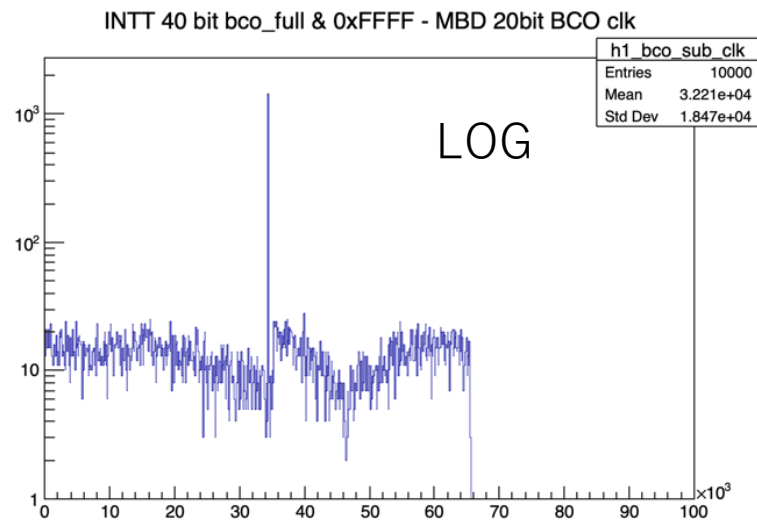
CLK



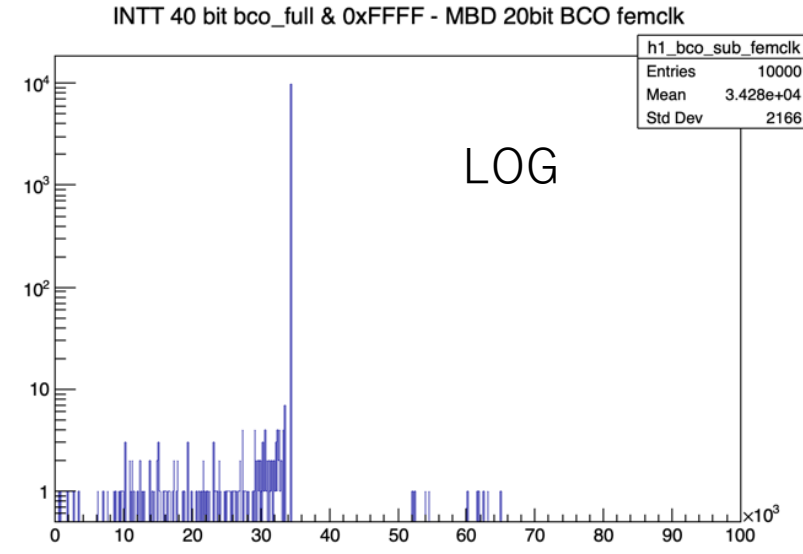
FEMCLK



CLK



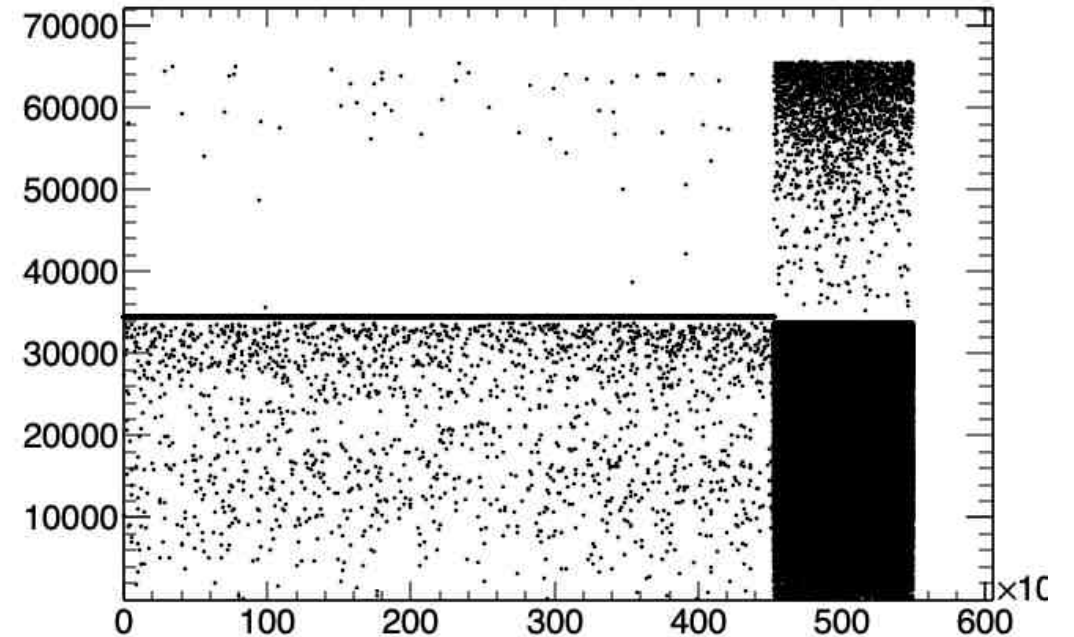
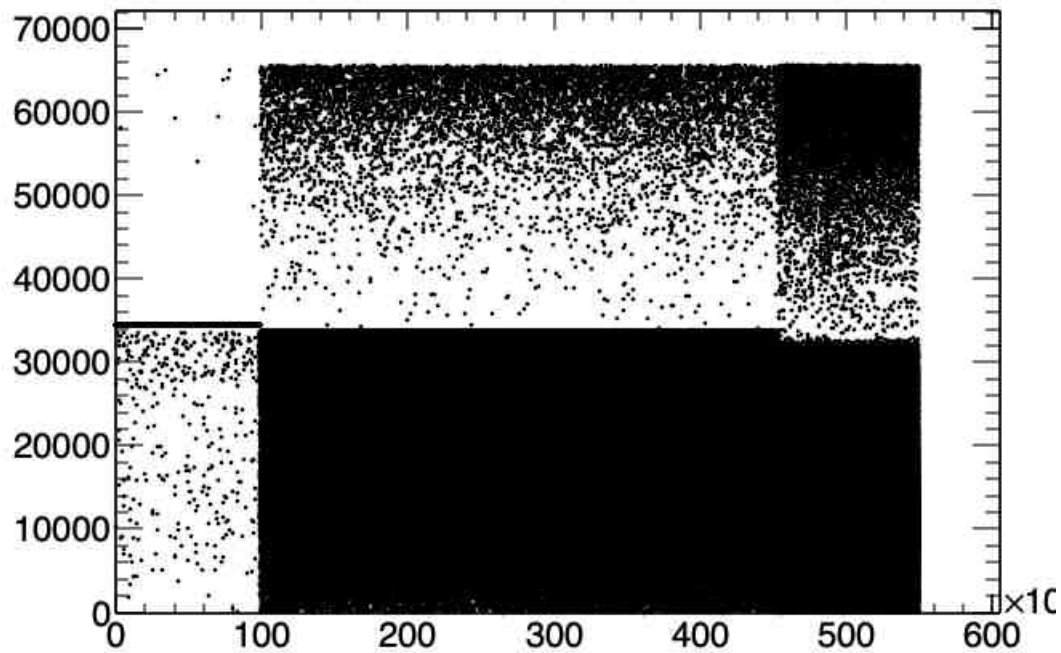
FEMCLK



- Almost one peak. CLK has more noise than FemCLK

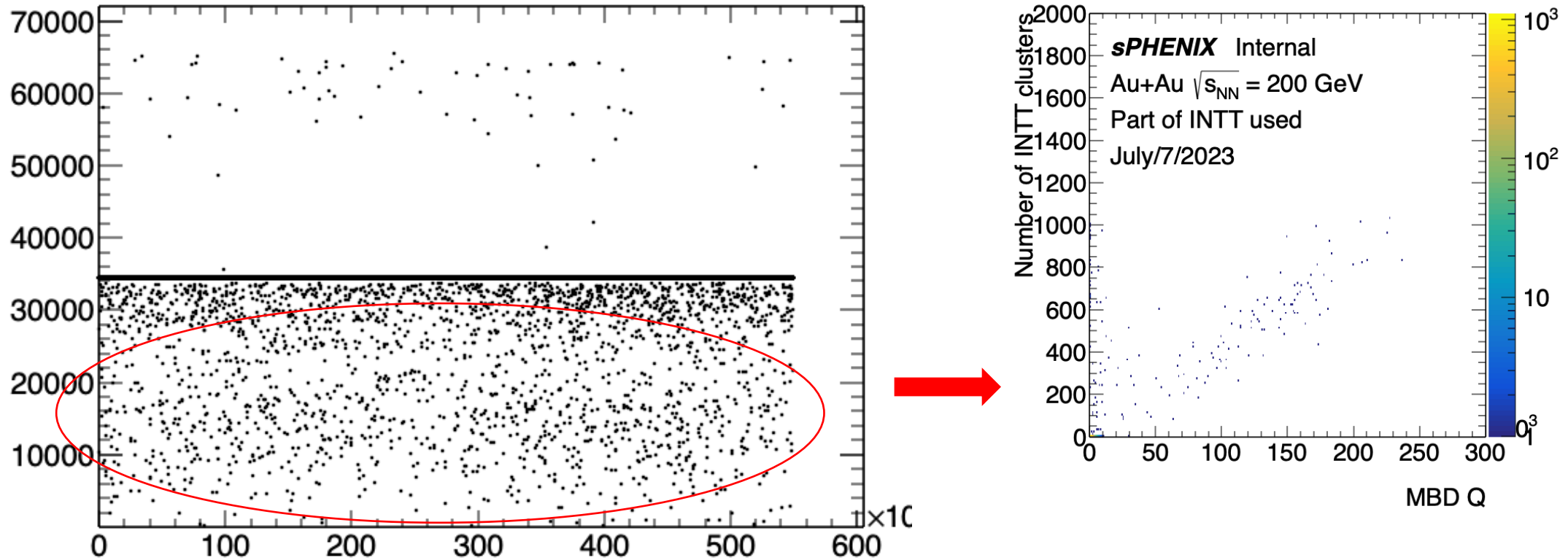
(INTT BCO_Full & 0xFFFF)- MBD FemCLK vs. event number

When I remove one event in INTT around 100K, then



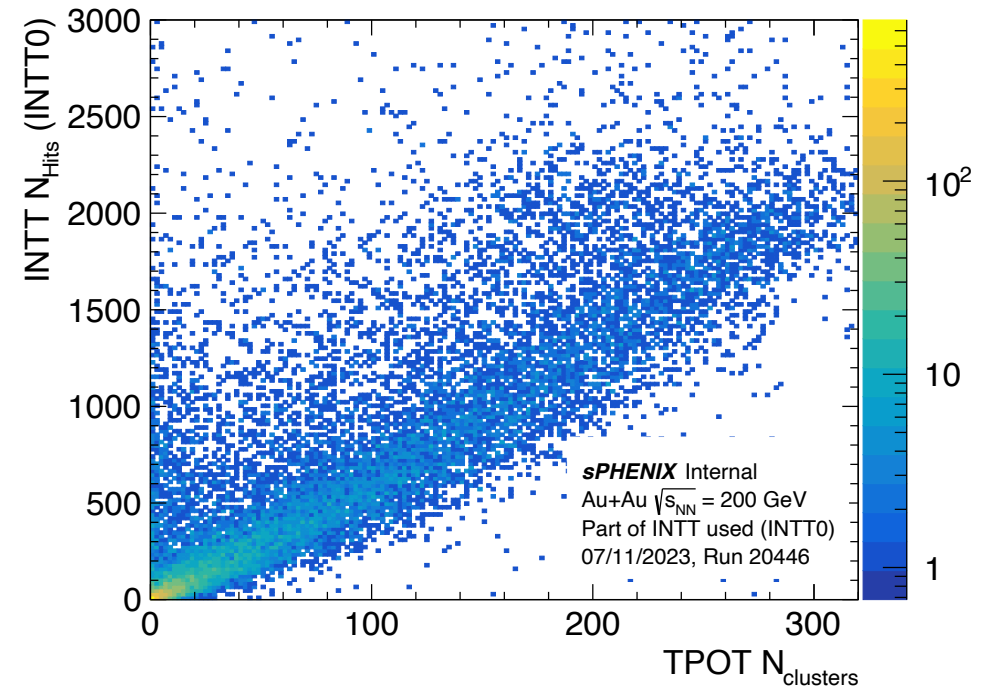
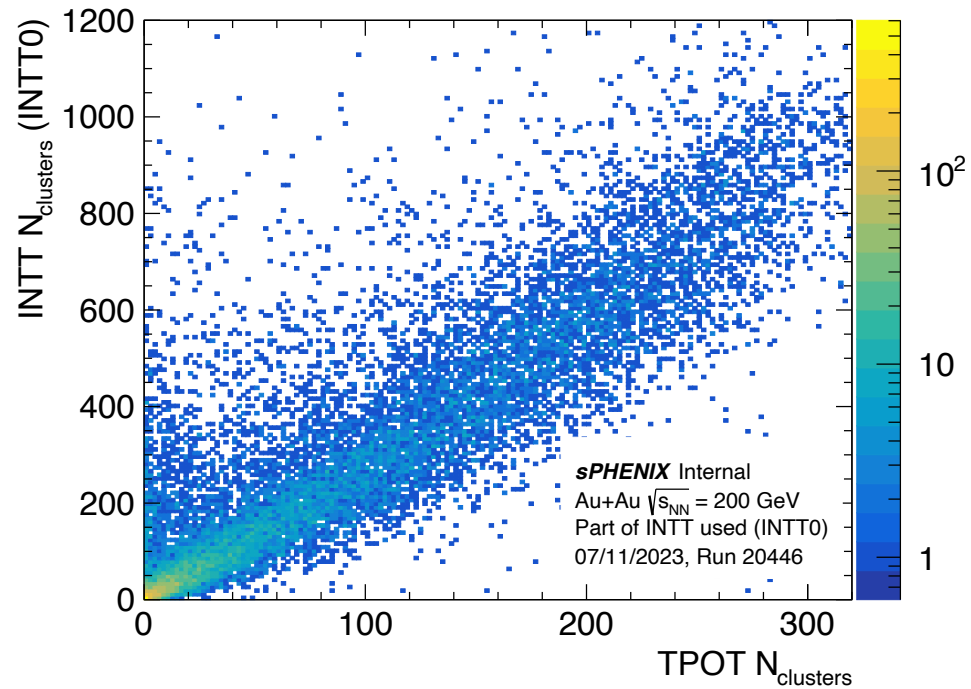
- It goes non-correlation around 100 K.

(INTT BCO_Full & 0xFFFF)- MBD FemCLK vs. event number



Even when femclk is not correlated with BCO full, events are still correlated.

INTT clusters/hits vs. TPOT clusters



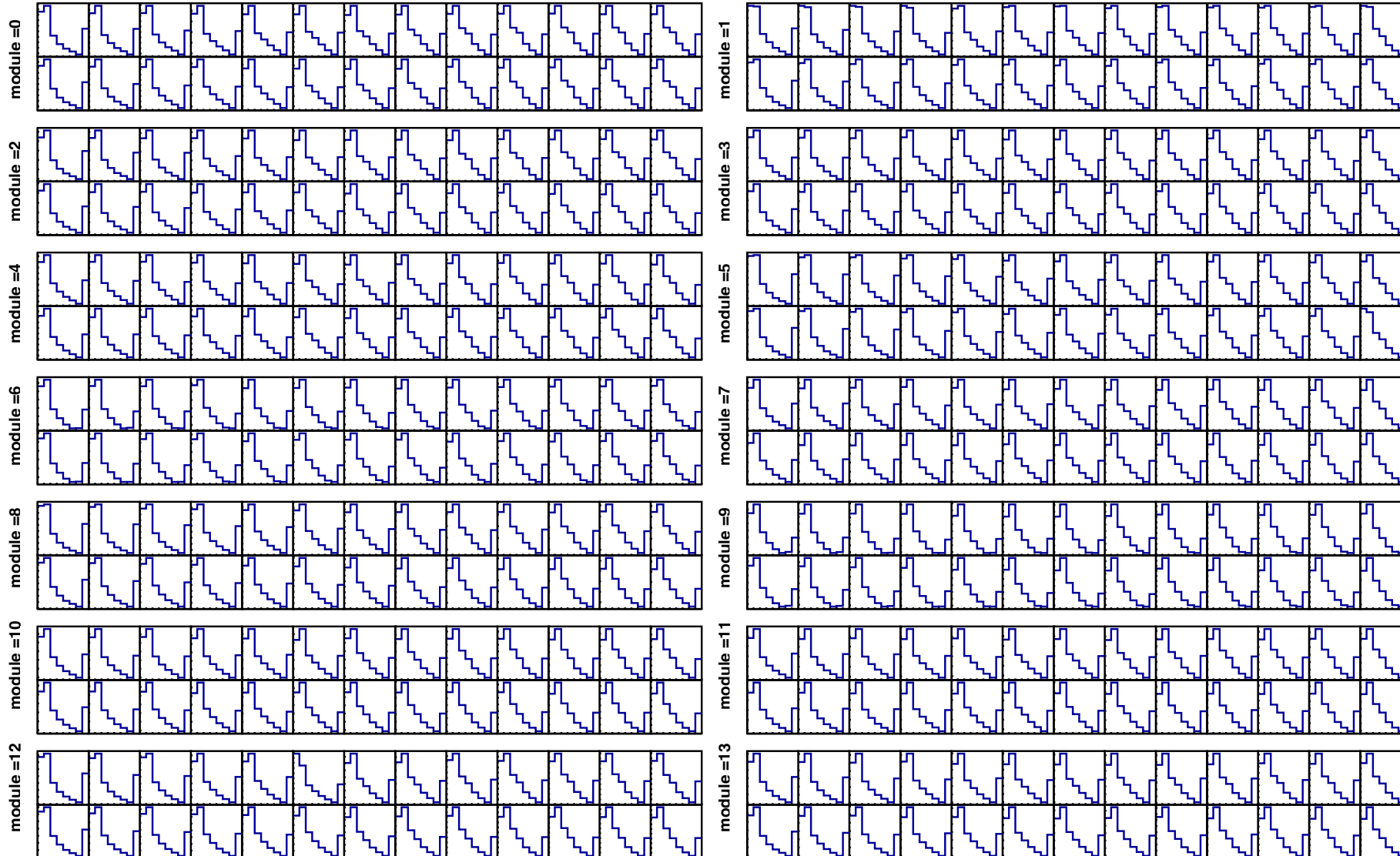
- Correlation!

Current status of the working INTT

- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)

Jaein worked for this

Intt0

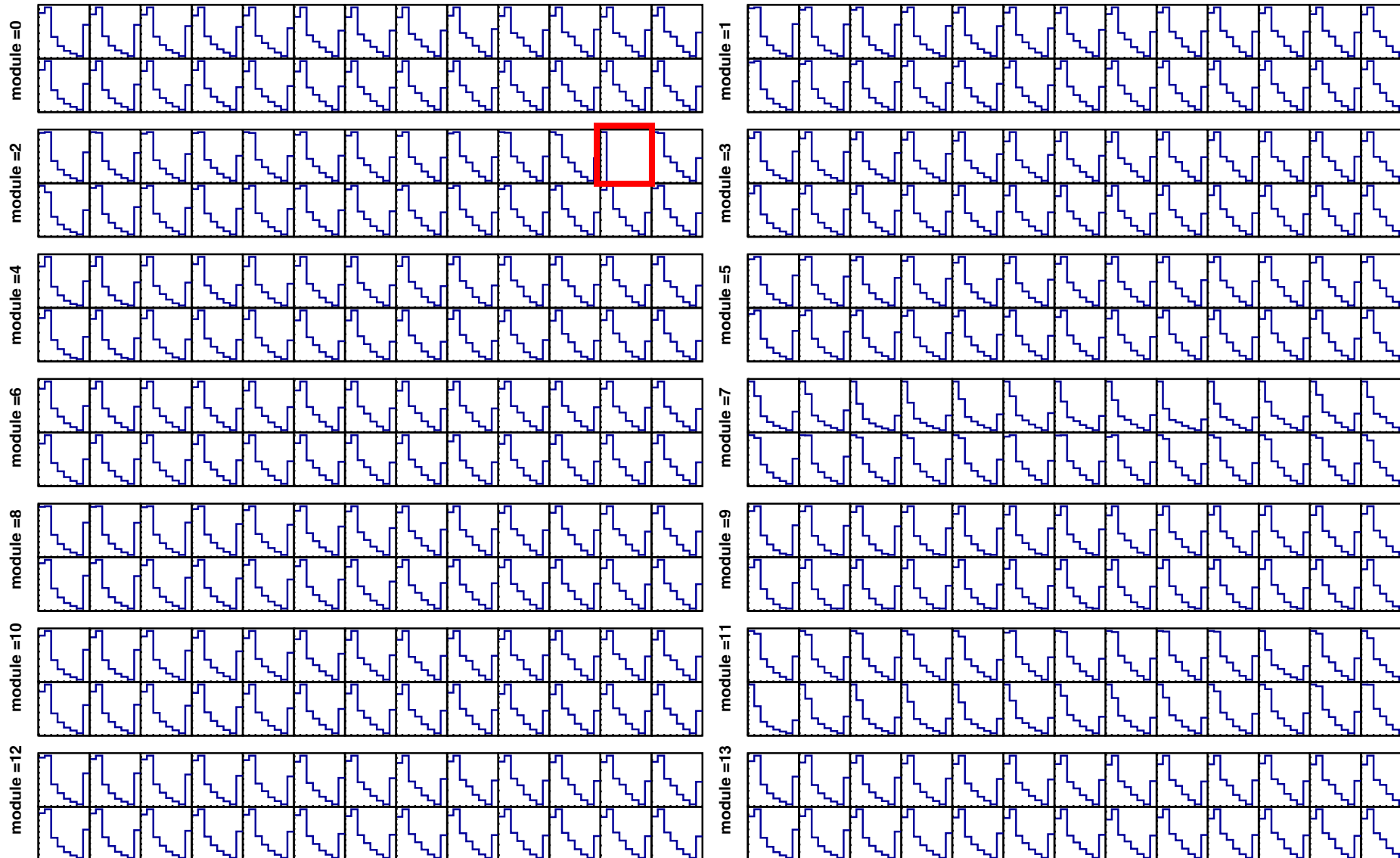


2023/7/7

INTT vs. MBD maya

Current status of the working INTT

- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)

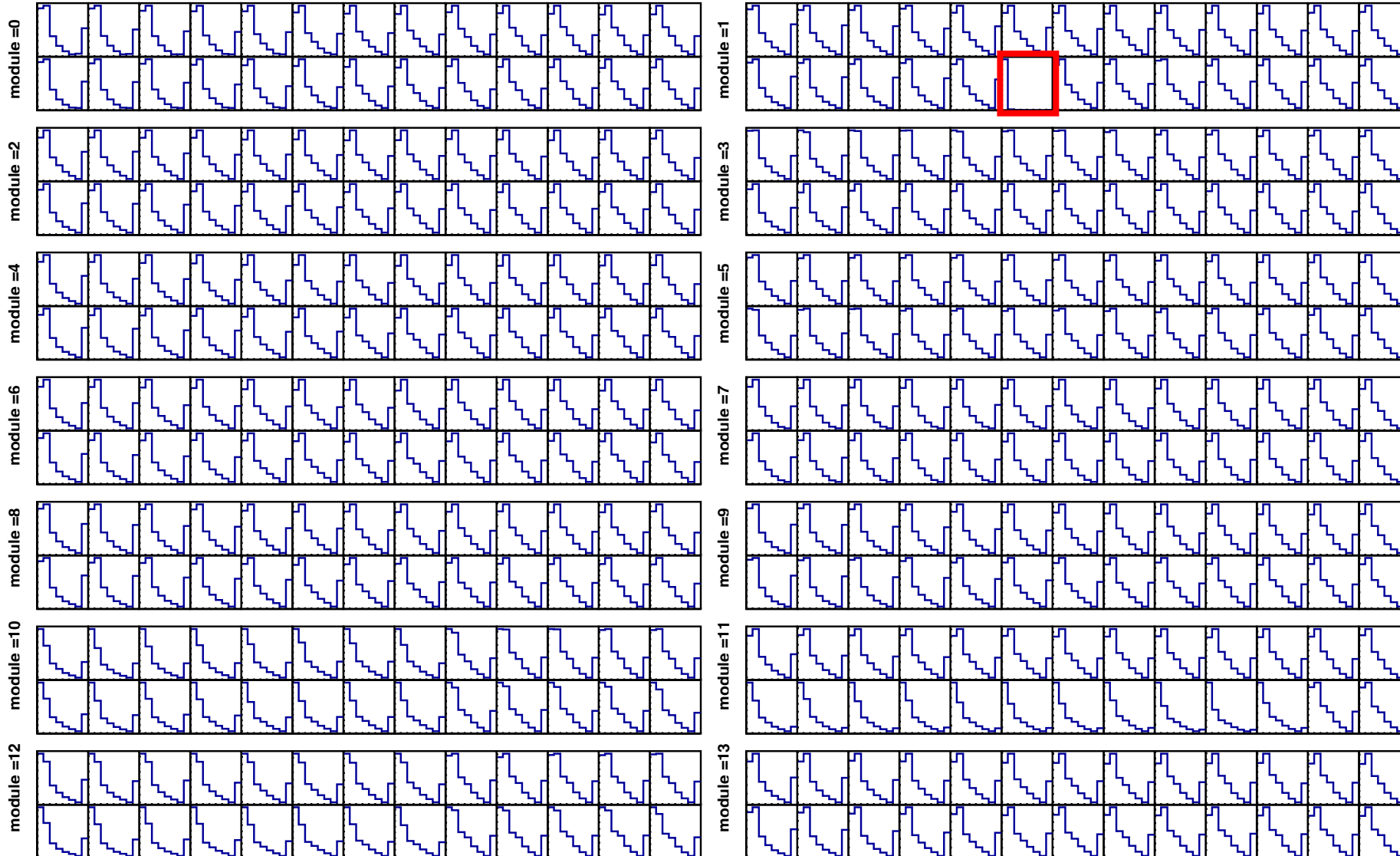


Intt1

No signal : 1/364

Current status of the working INTT

- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)

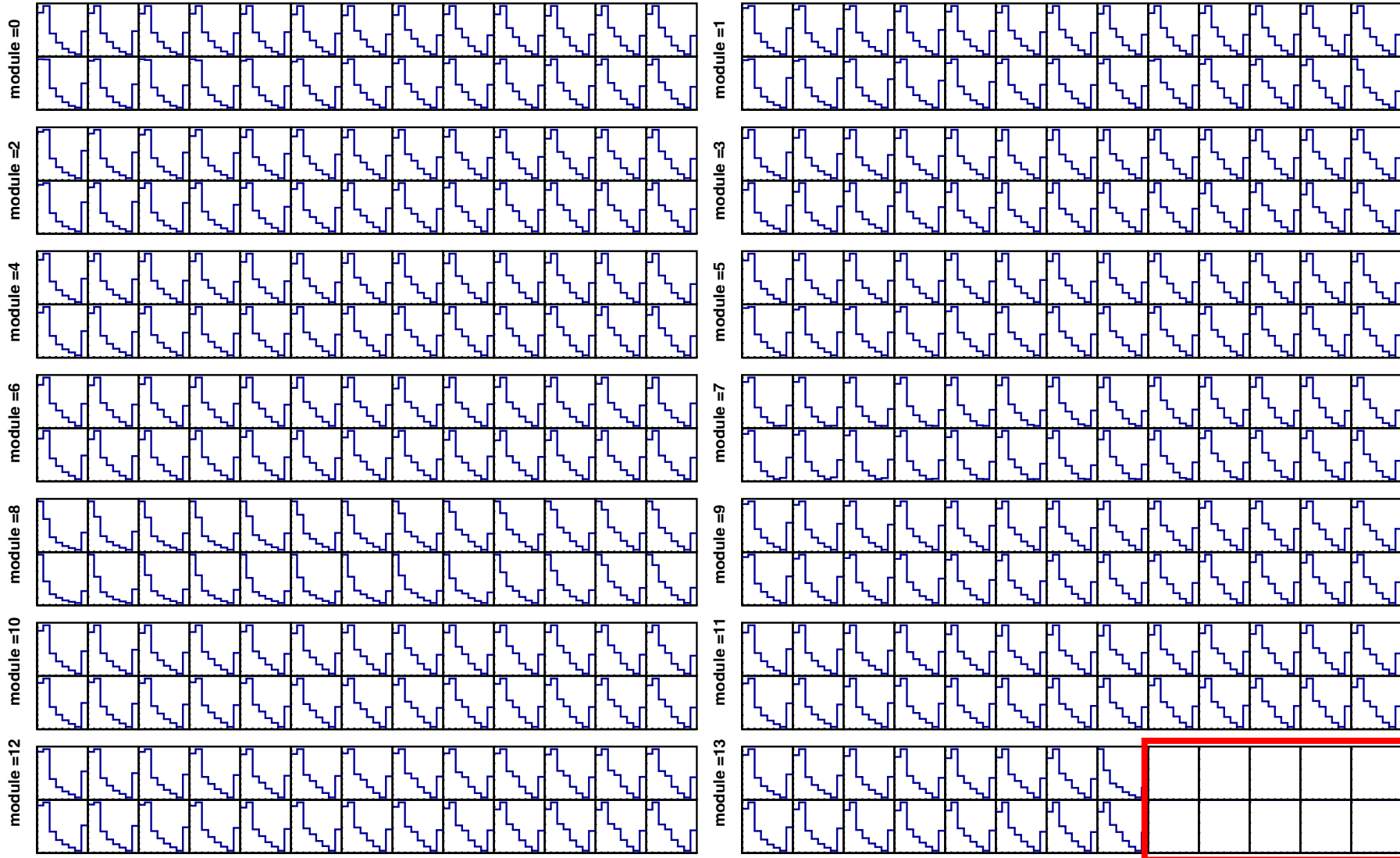


Intt2

No signal : 1/364

Current status of the working INTT

- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)



Intt3

No signal : 10/364
due to the mask for
no bias voltage chips

Current status of the working INTT

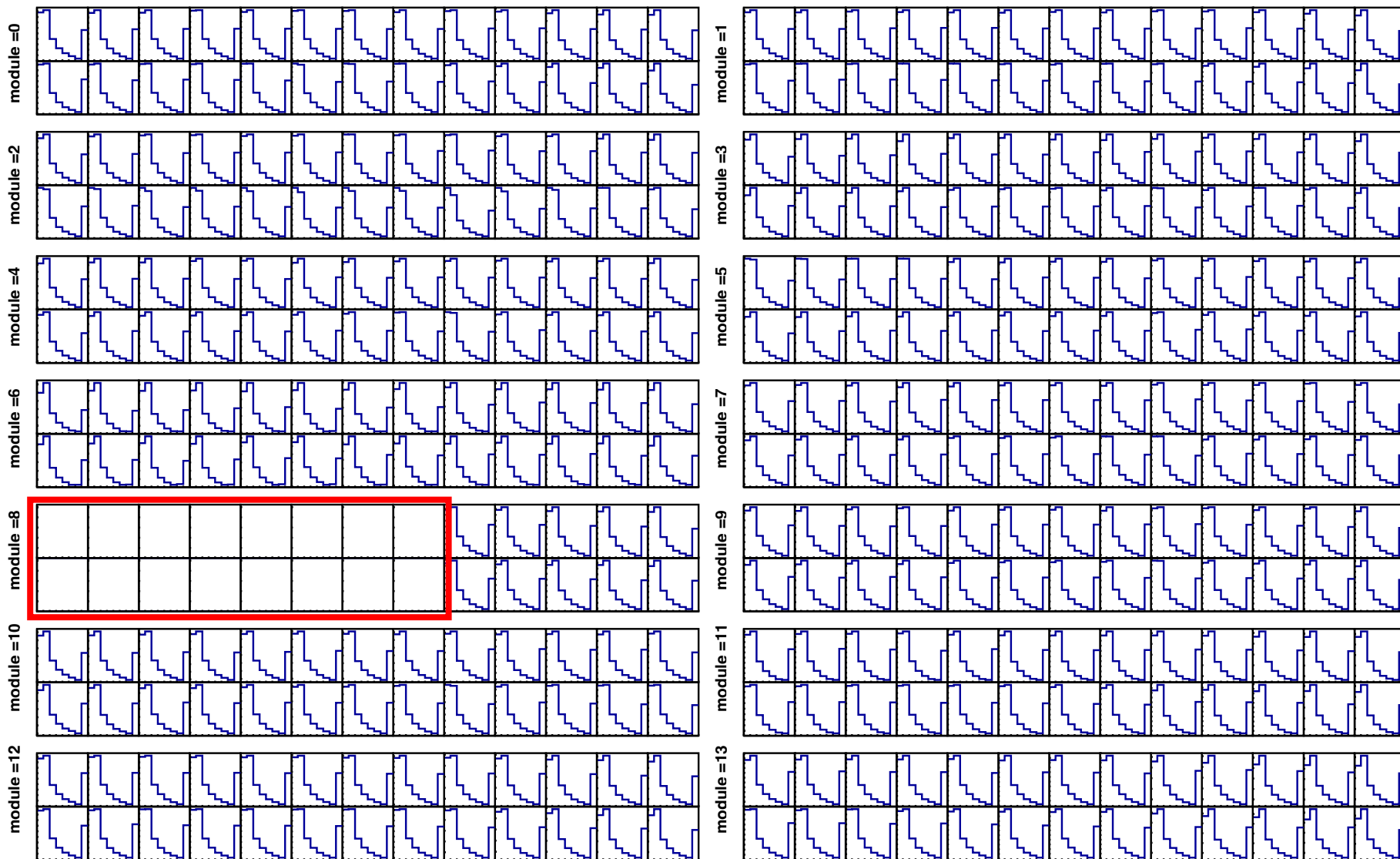
- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)



Intt4

Current status of the working INTT

- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)

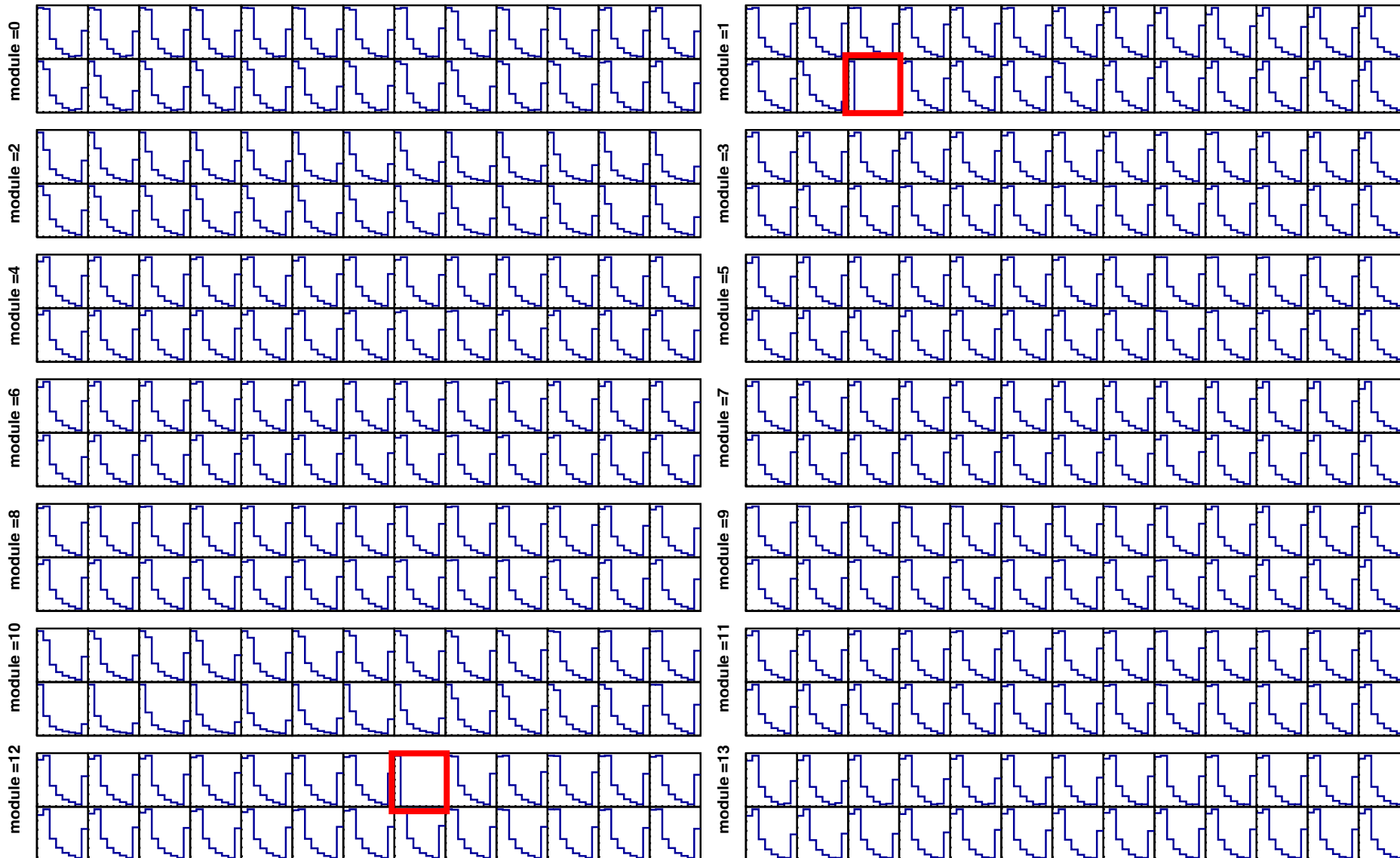


Intt5

No signal : 16/364
due to the mask for
no bias voltage chips

Current status of the working INTT

- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)

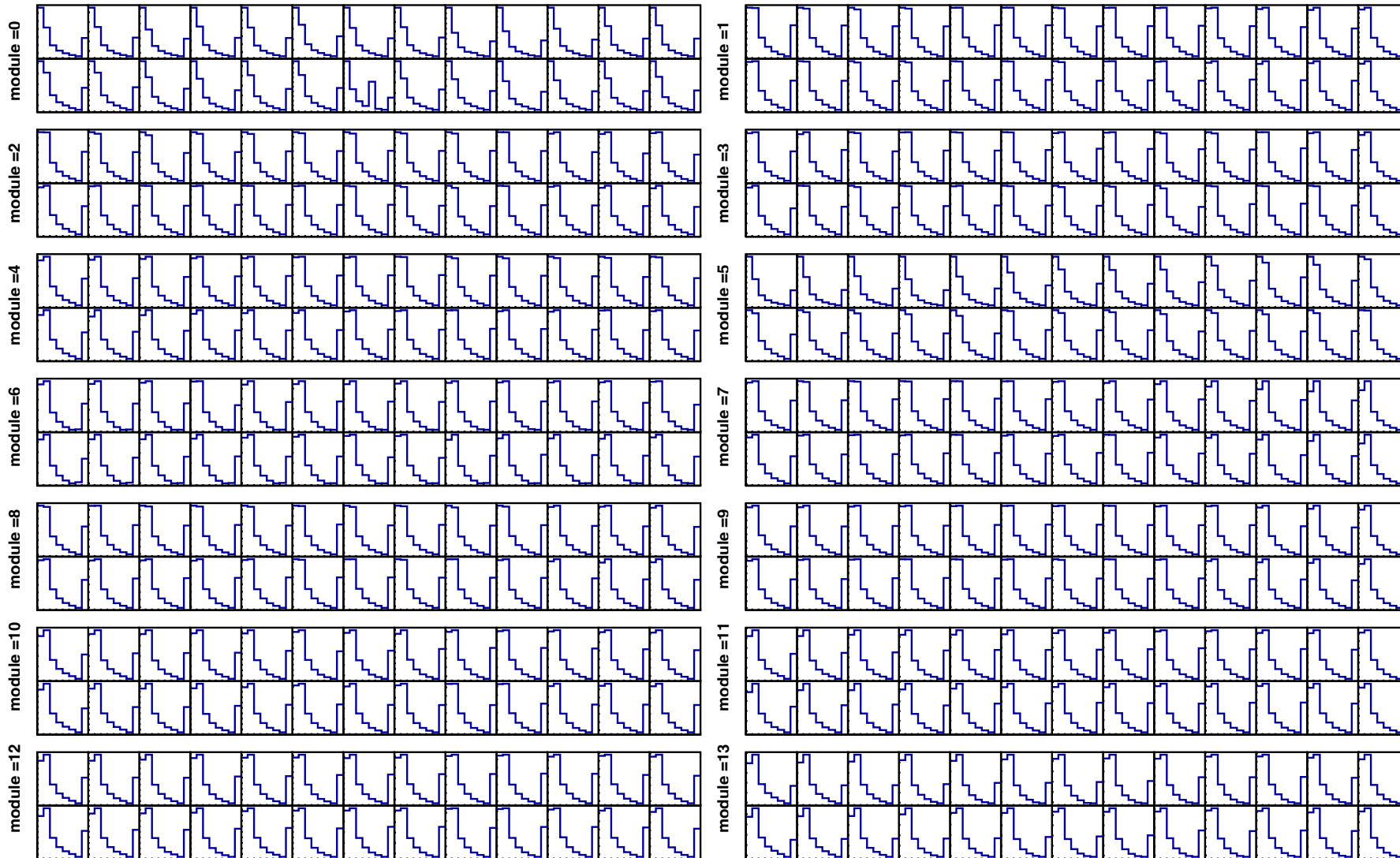


Intt6

No signal : 2/364

Current status of the working INTT

- Run #20885 taken on 2023/7/8
- Zero Field run for INTT 0 to 7 (all)

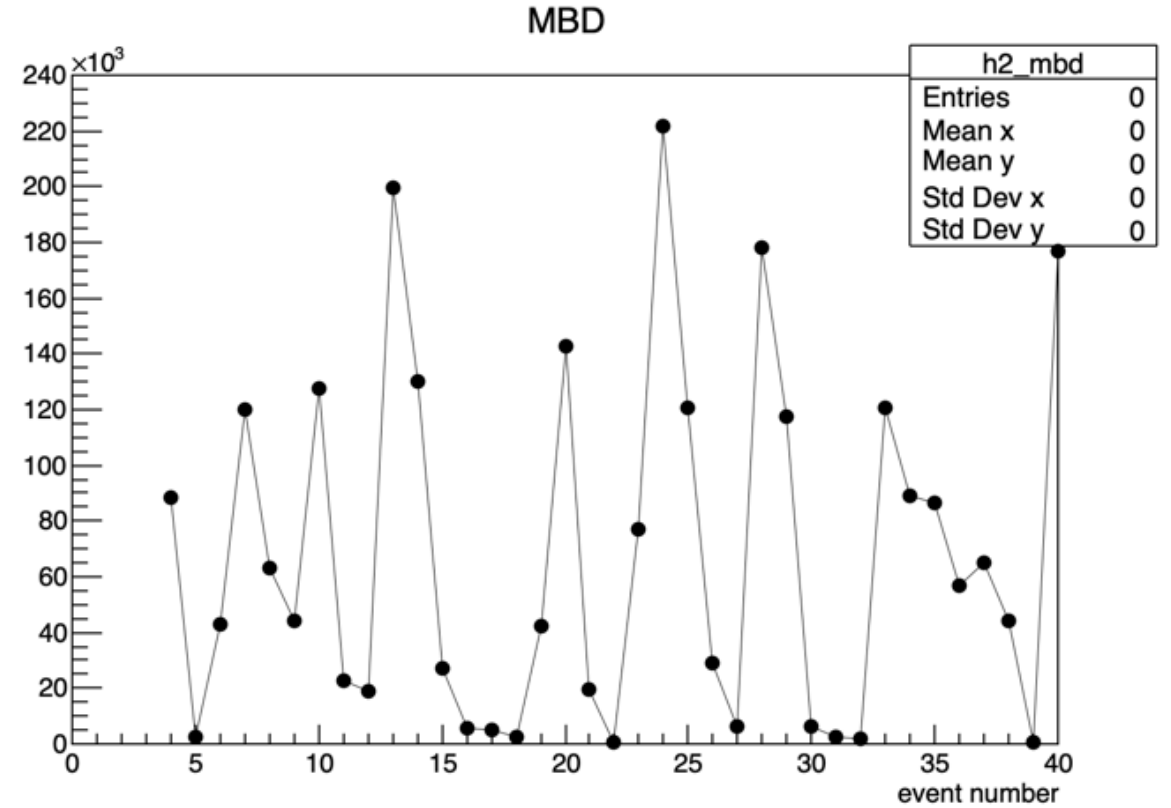
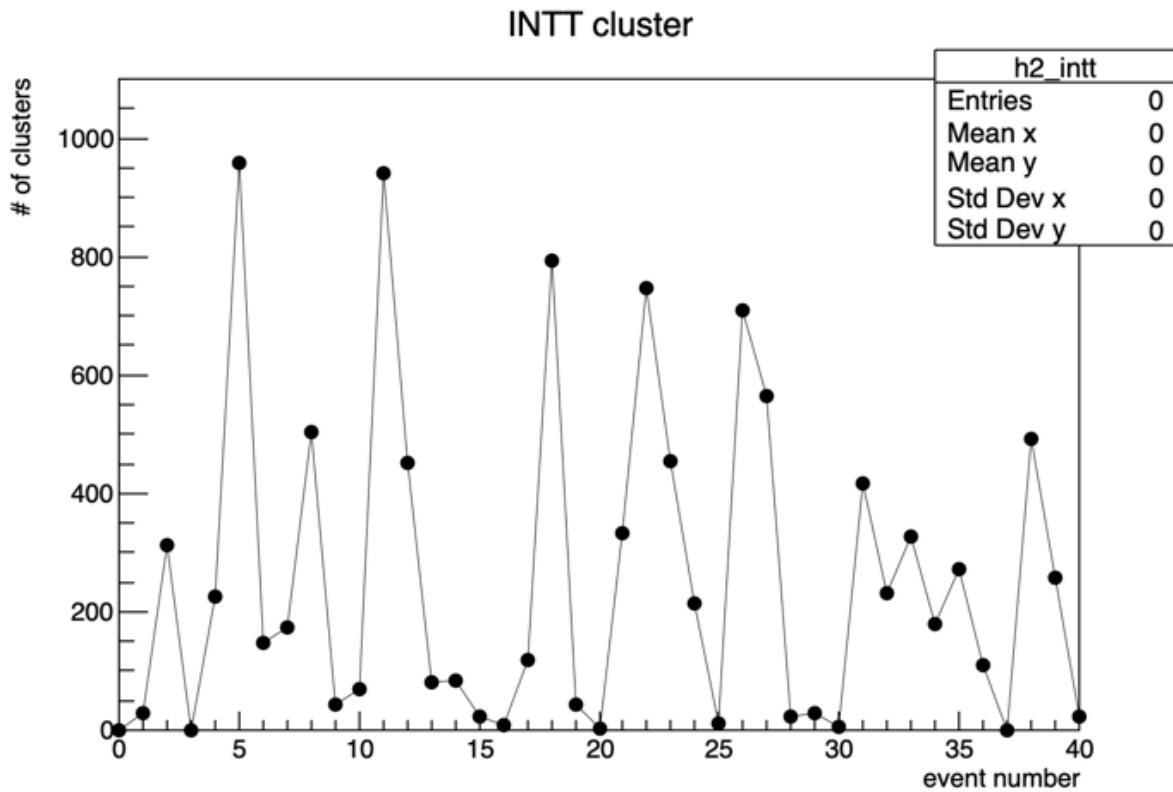


Intt7

Total 30/2912 = 0.010

Back up

Event shifts



I check the events by eye, and found that 2 events are shifted. I should check if this offset is always 2 or not.

CLK and FEMCLK

- CLK is a counter from the XMIT,
 - FEMCLK is a counter from the ADC.
-
- One XMIT reads the data from two ADC's. We have two XMITs, one for north (packet 1002) and one for south (packet 1001).

