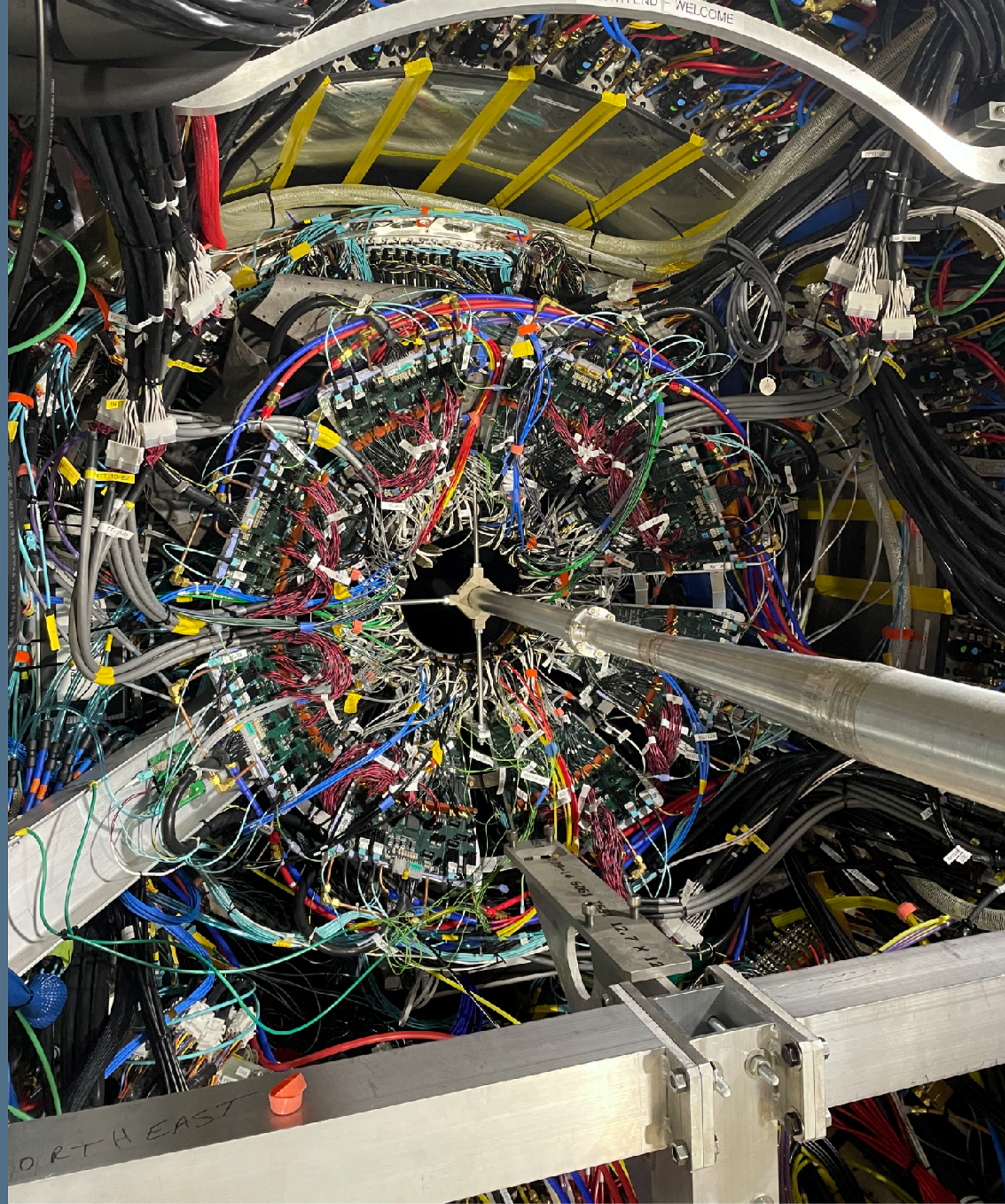


sPEHNIX - INTT commissioning

Cheng-Wei Shih, Chia-Ming Kuo
National Central University



2023/07/20 INTT meeting



checked files (DAC7 to DAC3) :

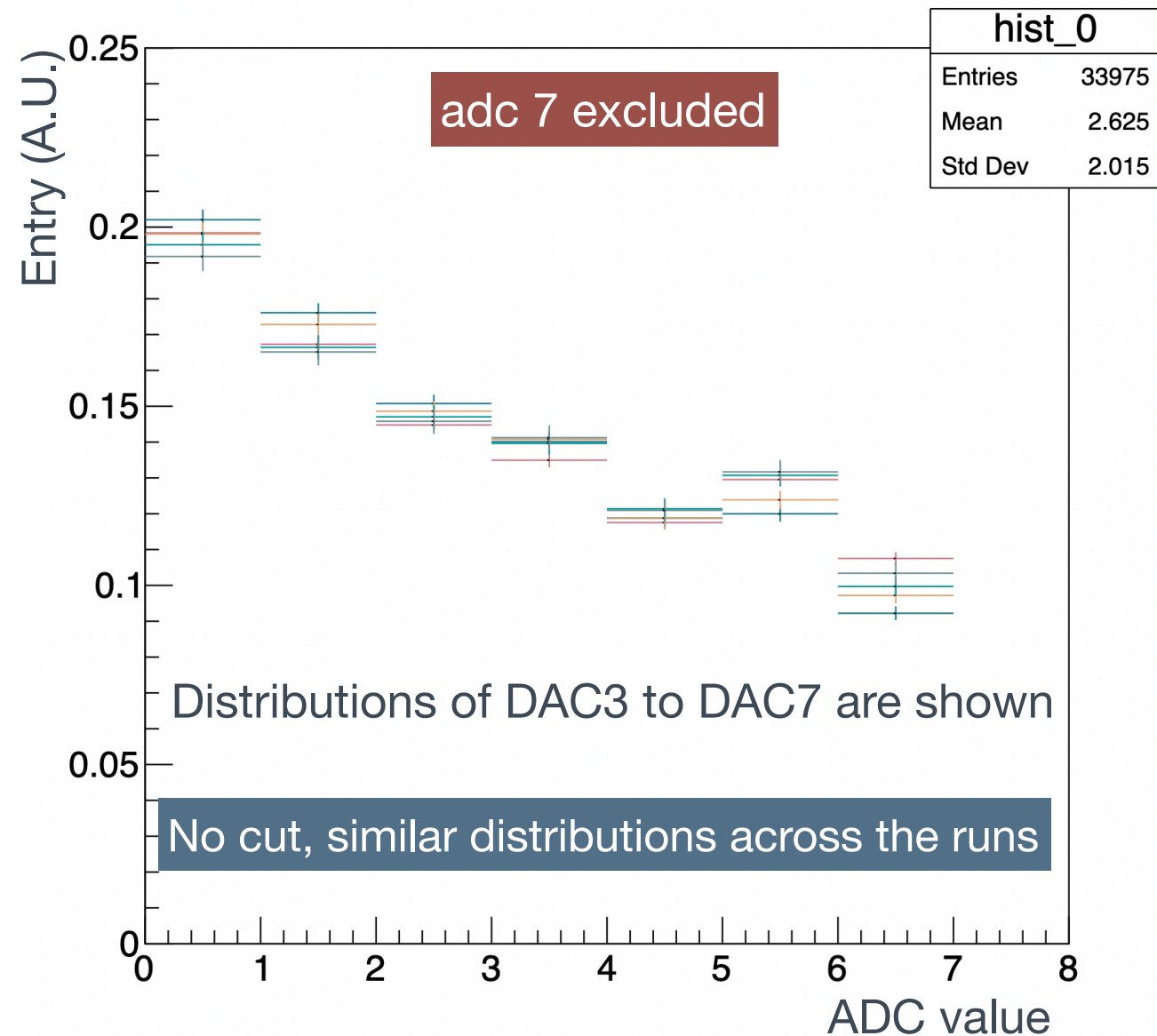
beam_intt4-00021527-0000_event_base

beam_intt4-00021040-0000_event_base

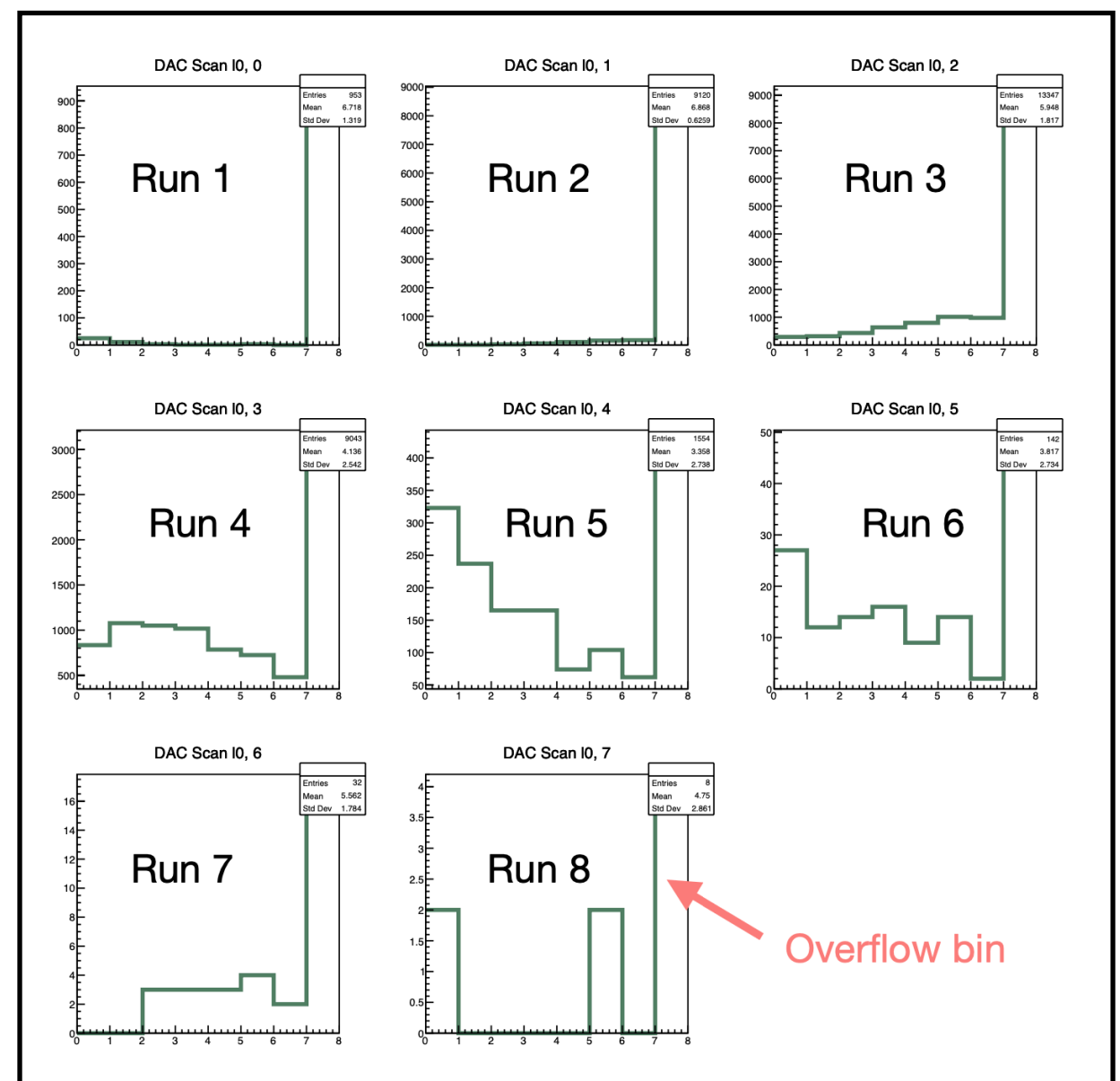
beam_intt4-00021035-0000_event_base

beam_intt4-00021025-0000_event_base

beam_intt4-00021019-0000_event_base



INTT beam test 2021



Applied selection :

1. Multiplicity cut
2. Geometry requirement



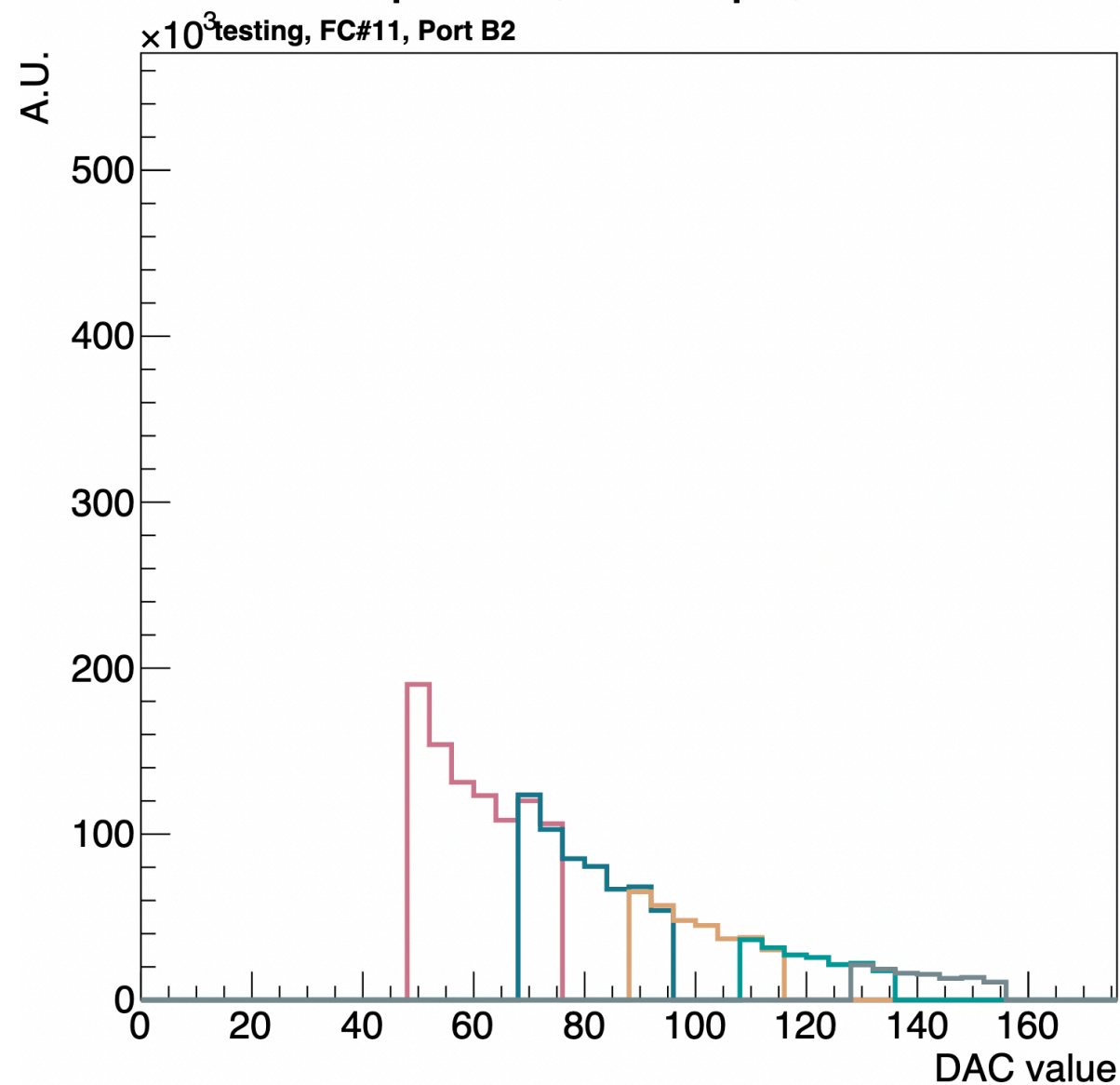
testing

FC#11, Port B2, All chips

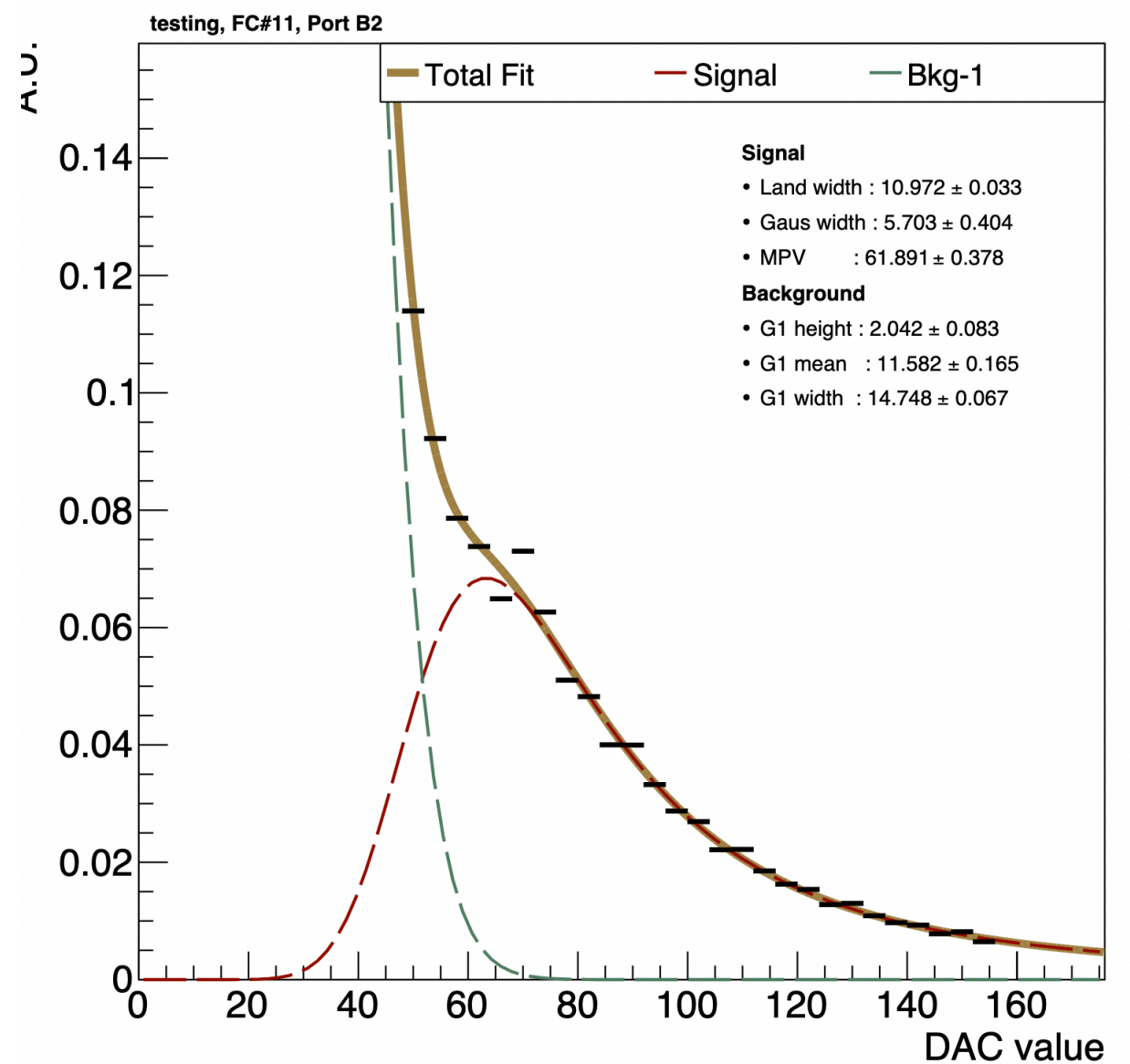
Bin8 set content 0

Only single hit cluster considered

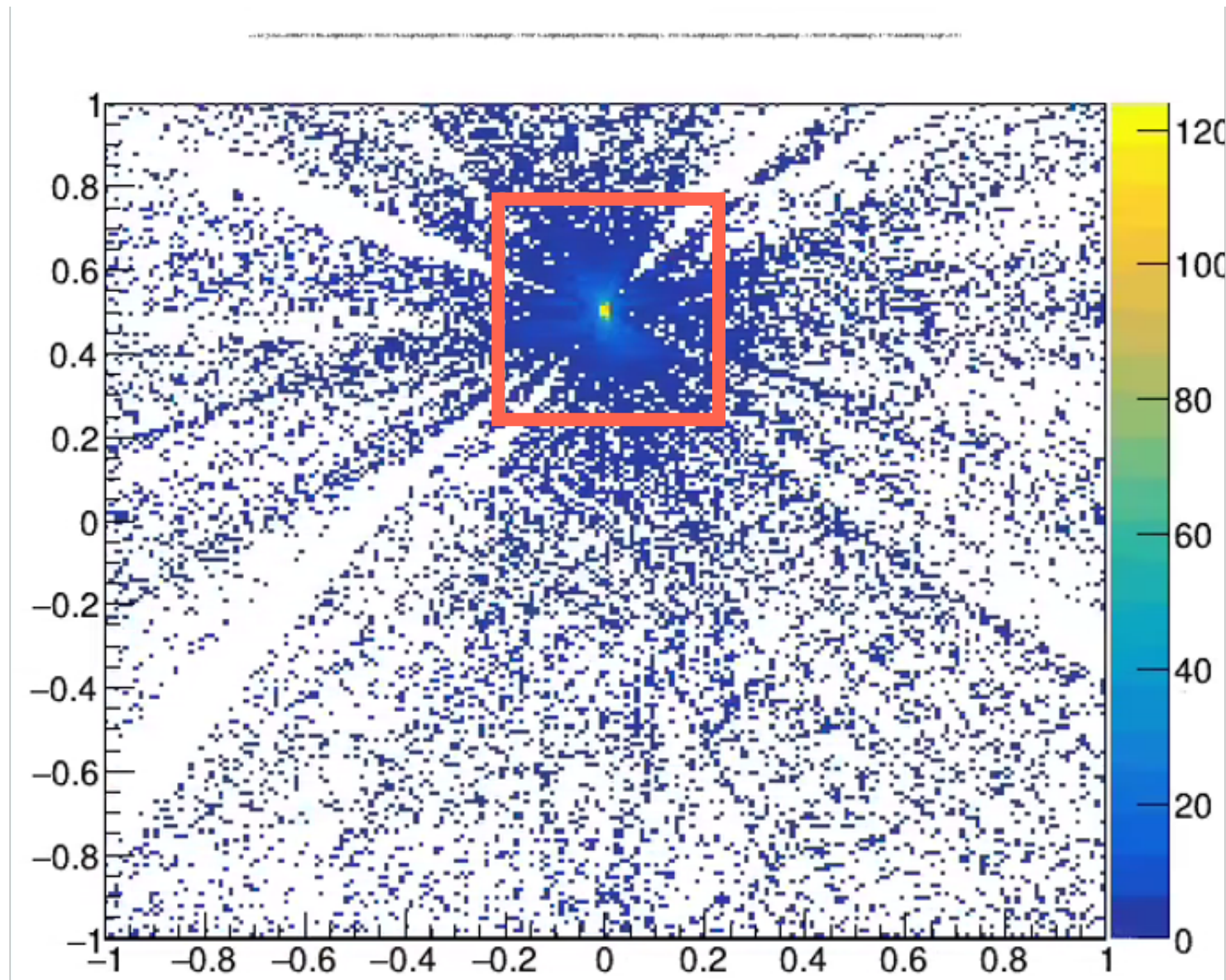
Chip level, all chips, run-0



Chip level, all chips

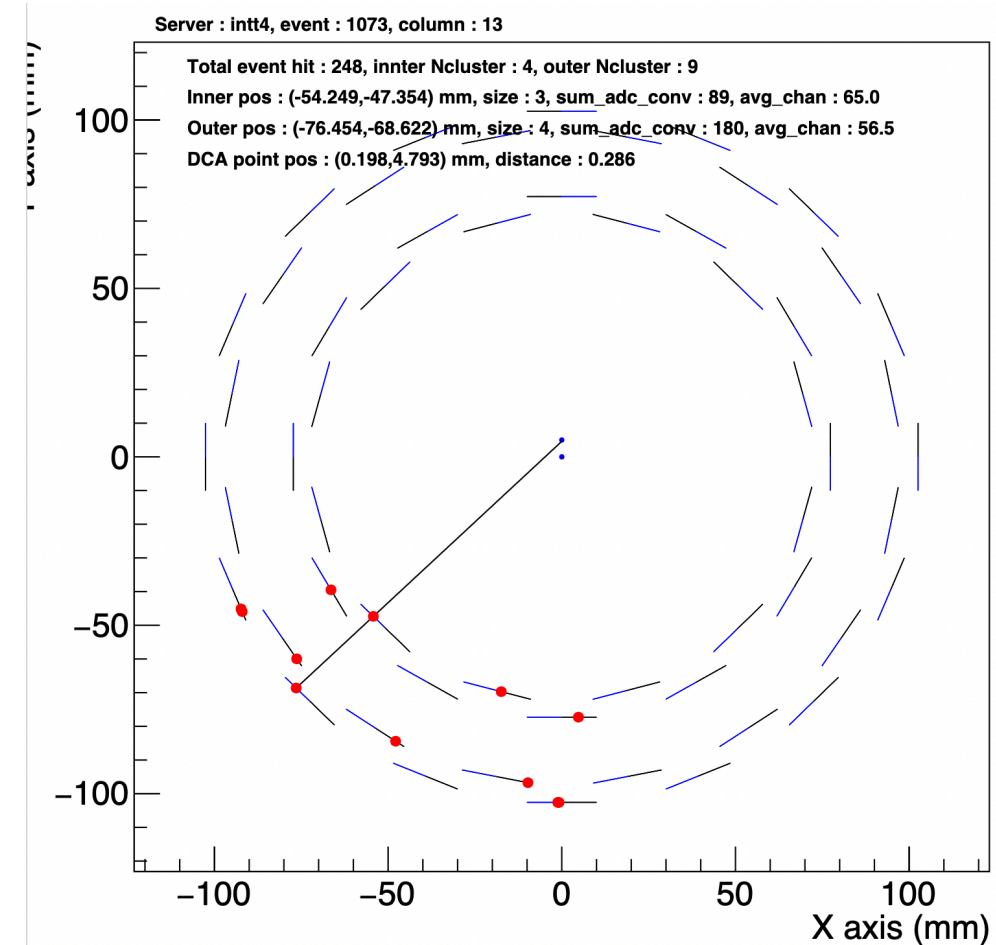
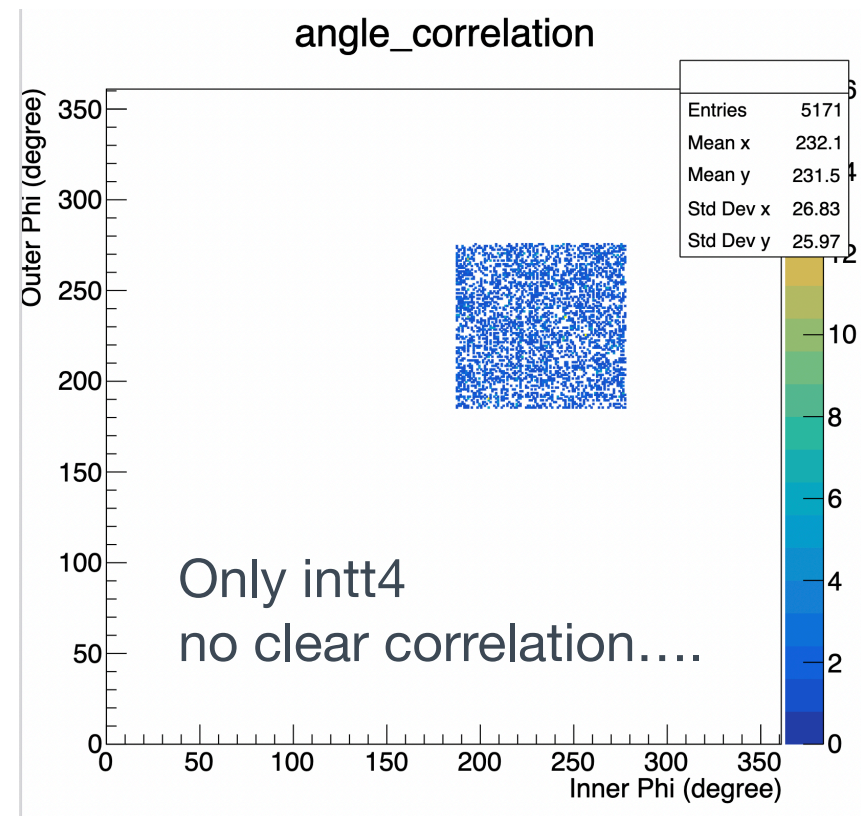
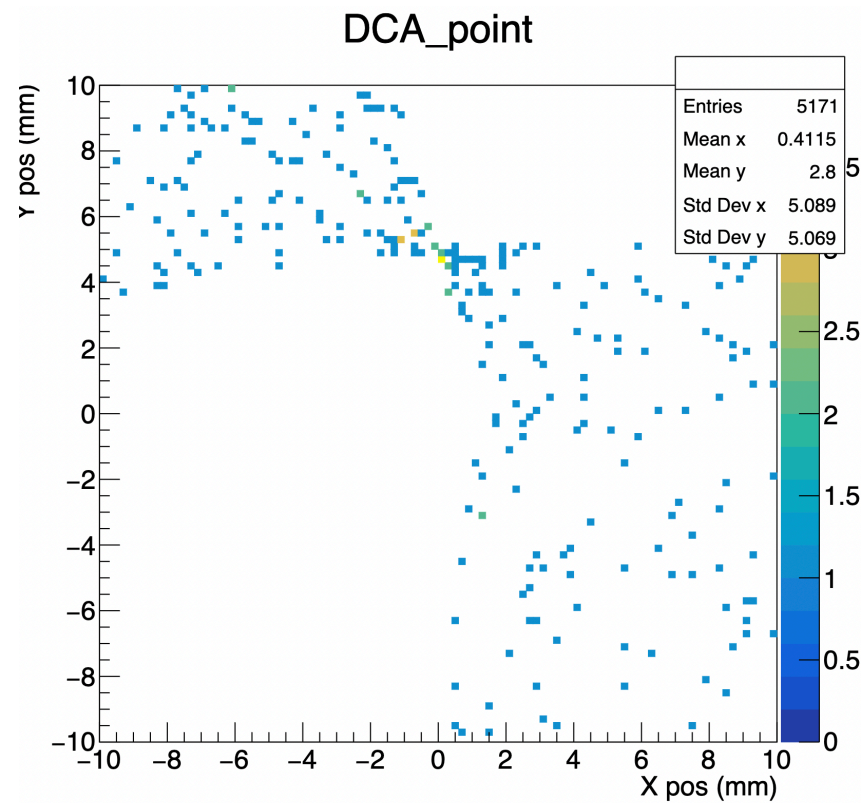


- DCAxy cut



Plot made by Takashi

checked file : beam_intt4-00020869-0000_event_base.root



Opportunity to cross check the geometry correction ?
Some more checks have to be done

Backup

DAC Scan

Extend to max range

Scan	1	2	3	4	5	6	7	8	9	10	11	12
DAC0	8	28	48	68	88	108	128	148	168	188	212	236
1	12	32	52	72	92	112	132	152	172	192	216	240
2	16	36	56	76	96	116	136	156	176	196	220	244
3	20	40	60	80	100	120	140	160	180	200	224	248
4	24	44	64	84	104	124	144	164	184	204	228	252
5	28	48	68	88	108	128	148	168	188	208	232	255
6	32	52	72	92	112	132	152	172	192	212	236	255
7	36	56	76	96	116	136	156	176	196	216	240	255

- BigPartition together with MBD (Must) no need to be a dedicated run
- Can be done with n_collision=127 (w/o waiting for asynchronous timing issue btwn intt servers.
- 12 settings
- > 1M events at ~400Hz
- ~ 12 hours total
- If the series of data are interrupted by the beam dump, repeat the same setting as the last run at the last store.

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