

Dear all,

Here is the minutes from today's meeting. The next meeting is scheduled on Jan 10th (Jan 3rd will be canceled).

o Cluster phi-size peak <Manami>

- ADC uniformity of the phi-cluster size=43, 46 are studied and found no uniqueness to them compared to that of 44, 45.
- Since CW revealed the origin of the phi-size=43 and 46 in the hit-map, we have some idea what they are by now. **Manami** should stop investigating the these peaks for now and focus on v2 analysis.

o Donuts absorber effect simulation <Genki>

- Compared INTT multiplicity in proton and Au single beams.
- There is no "MB trigger" concept in this MC and not trivial to do. However, the MC still can tell the relative increase of the beam backgrounds.
- The absorber increases # of clusters significantly.
- **Genki** will run the z-cluster reconstruction in the next round simulation.

o Event mixup <Mai>

- The mix-up event peak is now visible in the BCO_diff plot of this-previous BCO by increasing statistics up to 100k events.
- Analyzed Run#54280. In contrast to the previous Run23 data study, the trigger interval distribution now see distinctive difference between all and mixed-up events (including random backgrounds). The mixed-up events are not
- Mixed up events are also found in both inner and outer layers, but the inner layers are relatively less which contradicts to fishbone structure plot. **Mai** will check the consistency of the InttFeeMap.cc/h with Takashi' private code. **Mai** needs to investigate further why the outer layers have more mixed up than the inner layers.
- As the next step, **Mai** should apply trigger interval cut <61 and re-make the inner and outer BCO_FULL_previous event -BCO plots.

o FPHX Overflow <Cheng-Wei>

- **Cheng-Wei** should look into INTTRawHitsTCArray.full_FPHX and perhaps full_ROC.

Best regards,

-itaru

On 2024/12/24 23:34, Itaru Nakagawa wrote:

Dear all,

We will have next INTT weekly meeting in following date/time.

Dec. 26th Thursday 7PM in BNL = Dec. 27th Friday 9AM in Japan = Friday 8AM in Taiwan

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*indico

<https://indico.bnl.gov/event/26037/>

*Zoom

<https://zoom.us/j/92149923535>

Best regards,

-itaru