

Dear all,

Here is the minutes from today's meeting.

o Beam Test Analysis <Genki>

- No time dependence observed in terms of the cusp.
- Two dimensional scatter plot of residual vs track channel allows us to classify the different background components. **Genki** should categorize them (above/below true track peak, alligator mouse...) .and inspect raw hit distributions to pin down the cause.
- **Genki** should disable all hot channels at the beginning.
- **Genki** should compare with/without single Coulomb scattering in MC simulation.
- **Genki** should compare residual distributions between MC and data side by side normalized entries. Compare 2 Gaussian fitting parameters.
- Satellite peak disappears by applying straight track.
- **Genki** should add MC predicted efficiency as well in the final efficiency table.

o Taiwan Assembly and Analysis Update <Cheng-Wei>

- Improved efficiency by applying faducial volume cut ($5 < \text{strip} < 250$). Now 3rd layer efficiency reached 99%.
- Cheng-Wei should introduce the scattering angle cut to be hired from MC student fit distribution.
- Expected assembly leadtime April/15, test by end of April.
- BNL source test DAC0 threshold was set 15 while 40 in Taiwan for the self trigger mode. **Genki** will try to set higher.
- Chen-wei pointed out the low MIP peak position observed in 2021 beam test cannot be explained only by 50V operattion. **NWU crews** should check the power supply if it is really supplying 50V.

o AGND issue of A1 port <ltaru>

- The supplying voltage seems to be relevant if we connect the power cable to J1 port from the same power supply with J1A regardless of the existence of small wedge.
- The calibration also shows similar performance with/without small wedge.
- Ultimate judge should be made by the silicon response to the radiation source.

- o Genki and Rachid attend DST content meeting March 29th, 1PM EST.

Best regards,

-itaru

On 2022/03/24 13:40, Itaru Nakagawa wrote:

Dear all,

We'll have the weekly meeting in following time.

March. 24th Thursday 9PM in BNL = March 25th Friday 10AM in Japan = Friday 9AM in Taiwan

*indico

<https://indico.bnl.gov/event/15280/>

*Zoom

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

Best regards,

-itaru

Sphenix-intt-l mailing list
Sphenix-intt-l@lists.bnl.gov
<https://lists.bnl.gov/mailman/listinfo/sphenix-intt-l>