

Dear all,

Here are the minutes from today's meeting:

o Taiwan Assembly <Cheng-Wei>

- 4 Full ladders are ready for testing of silicon sensors. **Cheng-Wei** will ship one of these ladders to NWU for testing.
- Didn't observe calibration pulse at ROC board. **Cheng-Wei** will be shipped to RIKEN for further diagnose.
- **Cheng-Wei** should quantify the discrepancy in Edep between cosmic and beam test data and try to calculate $\beta \cdot \gamma$ of cosmic muon and 120GeV protons see if the discrepancy between them can be explained.
- **[REMINDER!]** NWU look for another ROC board can be shipped to Taiwan.
- **Hang-Sheng** will work on the BNL ladder classification analysis.
- **Cheng-Wei** will post the analysis codes to INTT branch of the sPHENIX GitHub.
- **Everybody** are welcome to use the chat room for INTT <https://chat.sdcc.bnl.gov/sphenix/channels/intt#>
- **Everybody** should have a look on the ladder QA criteria on the web and send comments via e-mail if there are anything missing items.

https://indico.bnl.gov/event/12710/contributions/53162/attachments/36484/59961/ladder_classification_20210811.docx

- Intensely discussed about the QA criteria for the ladder, especially how to evaluate the noise. The error function fit on the THStack is likely not what Takashi suggested. Takashi's and Wei's insists have not been converged in the mathematical technique how to separate the smearing effects due to the dynamic range of ADC bin and noise. However Yasuyuki and Itaru basically agree to Wei's claim that it is not mandatory to separate them for QA because any variation in the convoluted observable (for instance, Gaussian width) should be originated by the noise. The range of bin effect should be common to all ladders as long as the DAQ threshold conditions are kept same. Do we need to evaluate absolute noise effect? If so, then we need to invent the way to separate them.

o BNL Assembly <Han-Sheng>

- Observed the same noisy behavior with the power on of the motor as NWU. Han-Sheng should introduce massive ground cable to strengthen the conductivity between the control box and the fixture as NWU did. If the noise still persists, then try to insert insulation material between the ladder and the ladder tray of the fixture also as NWU did.
- The external trigger is now functioning in BNL. Thanks to NWU folks and Cheng-Wei for the support.

o Source Test in NWU <Yumika>

- Found a solution to the noise issue of the source test fixture. By introducing massive ground cable between the fixture and the control box, (and may be the isolation between the ladder and the ladder tray of the fixture), the noise is gone.

- To be optimize either the self-trigger or the external trigger are better. NWU should also consider the use of stronger radiation source if the trigger rate is too low for the external trigger as long as the regulation of the building allows.

o Production Update <Itaru>

- 32 HDIs were delivered in Aug. 6th. To be forwarded to Taiwan within two weeks.

Best regards,

-itaru

On 2021/08/09 13:27, Itaru Nakagawa wrote:

Dear all,

We'll have weekly INTT meeting on

Aug 10th Tuesday 9PM evening in BNL = Aug. 11st Wednesday 10AM in Japan = Wednesday 9AM in Taiwan

Please be ware, the new meeting day/time starts from this meeting.

*indico

<https://indico.bnl.gov/event/12710/>

*Zoom

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

Best regards,

-itaru

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