Hi all,

Here is the minutes from today's meeting.

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o Assembly in Taiwan <Cheng-Wei>

- **Cheng-wei** should make a comparison with/without BE all the other conditions should be consistent.

- **NWU** check their test bench if any ROC is available to provide as a 2nd test bench in Taiwan.

- **Itaru** will give an instruction how to probe calibration pulse at ROC and **Cheng-Wei** should look check if the calibration pulse is indeed generated at ROC or not.

- **Cheng-Wei** and **Han-Sheng** should make sure the conditions are kept identical between BNL and Taiwan including the length of long ans short conversion cables.

o Evaluation of ladder performance <Miu>

- The amplitude cut is introduced to extract a stable event entry area. The difference between the 45 cut presently employed in BNL/Taiwan can be different from Genki's one due to different measurement condition such as the readout cable configuration. The 45 is selected based on BNL/Taiwan setup. The important thing is to keep this constant throughout ladder QA.

- **Cheng-Wei and Han-Sheng, Wei** should come up with the table contains following 3 columns "which aspect of the ladder performance to be tested", "method", and "criteria". This way, all collaborators are clear whats the purpose of each measurements are and we can go through each list and confirm if there is no overlooked performance of the ladder to be tested.

- The error function provides the same results with Gaussian width solution proposed by Han-Sheng using only ADC0 channel to measure the noise (or resolution). Cheng-Wei proposed "amplitude shift" idea to stack up more statistics from different ADC channels. After intense discussion, Cheng-Wei convinced us his approach measures the same resolution smearing by the noise effect plus it has statistical advantage because it uses all entries of calibration data, while the error function approach only uses entries in ADC0 channel.

o New conversion cable <Itaru>

- New conversion cable based on the micro-coaxial cable (MCC) technology was proposed in order to reduce the production cost of the FPC solution.

- The current plan is to have the first prototype cable within a couple of months and make a decision if it is feasible. Until then we pend FPC conversion cable. As soon as we judge it is not feasible, then we resume FPC solution.

- As a lower priority mission, we also explore to make longer MCC cable to replace the

present bus extender + conversion cable together. This cable can be made with the same connector ends design, so relatively cheap investigation.

- **Itaru** will update the progress in frequent basis.

Regards,

-itaru

On 2021/08/03 22:07, Itaru Nakagawa wrote:

> Dear all,
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> Sorry for the last minutes announcement. We'll have weekly INTT meeting on
>
> **Aug. 3rd Tuesday 9PM evening in BNL = Aug. 4th Wednesday 10AM in Japan = Wednesday 9AM in Taiwan**
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> Will start within a half an hour.
>
> *indico
>
> https://indico.bnl.gov/event/12643/
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> *Zoom
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> https://zoom.us/j/92149923535
>
> Best regards,
>
> -itaru