

Subject: Re: [[Sphenix-intt-l]] INTT Weekly Meeting <Minutes>
From: Itaru Nakagawa <itaru@riken.jp>
Date: 2024/07/24 12:26
To: sphenix-intt-l@lists.bnl.gov

Dear all,

Here are the minutes from today's meeting.

o Onsite report <Itaru>

- Isobutan gas approval process is ongoing. The opening angle test at 1.5mrad X-ing angle (without changing the polarity of DX magnet) was executed for a dedicated one store. So far, we haven't observe anything awkward in ZDC/SMD data between 0mrad and 2mrad as long as the first pass analysis goes using the online monitor in offline.

- Once we start TPC back in operation with the isobutane gas, the plan is to commission TPC during the day with 1.5mrad X-ing angle and 0mrad throughout night to accumulate more statistics for calorimeter physics.

o DAQ crash issue in the INTT stream readout <Itaru>

- Ever since the INTT switched to the stream readout mode, the Felix-4 are suffered from sucking large data volume and has been hanging DAQ. LV power cycle didn't help. The origin of the large data volume comes from ladder 8 and 11. Rachid increased dry air, but didn't help neither. Ryota and Yui looked into drawing currents in silicon, and we didn't find any channel which drastically increased current since the last week. At this moment, we don't have clear evidence the high rates comes from any silicon detectors.

- The DAQ doesn't hung in the triggered mode and the hot spot didn't appear in the online monitor. This may not means that the hot channels don't exist in the trigger mode. It can be the higher threshold of the online monitor which is optimized for the stream readout mode. It is possible that the online monitor just didn't pick up these hot channels in the trigger mode although these hot channels are still there. Takahiro already found hot spots in these ladders from a single stream readout mode data. He is continuing looking into triggered and stream readout data sets to see these hot channels stays or not.

o Software issues <Takashi>

- Takashi will follow MVTX workflow to make BCO diff plot in the stream readout mode.

- Software group didn't aware we started data taking with full stream readout mode. Turned out the existing Fun4All framework is incompatible with full stream readout mode. The data is processed only as the extended triggered mode, so the hits outside of the extended window are not processed of the stream readout mode. Now Chris and tracking code developers aware the issue and they will discuss to upgrade the codes.

- Takashi encountered DST stop processing at 70kEvents for 5 or 6 data sets took by Akitomo in streamreadout modes. **Takashi** will try to run with triggered mode data whether it runs over 70kEvents.

- **Akitomo** will update the following INTT dedecated RunLog. Onsite crews should update the latest ones (since the switch to the stream readout mode, July 17th).

https://docs.google.com/spreadsheets/d/1qCxH_oOPnLCEpg9fgW_zC0G5_piRsRhklkb0tKznRQ/edit?pli=1&gid=1459536224#gid=1459536224

Best regards,

-itaru

On 2024/07/23 11:02, Itaru Nakagawa wrote:

Dear all,

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

July 24th Wednesday 9AM in BNL = July 24th Wednesday 10PM in Japan = Wednesday 9PM in Taiwan

--

*indico

<https://indico.bnl.gov/event/24306/>

*Zoom

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

Best regards,

-itaru