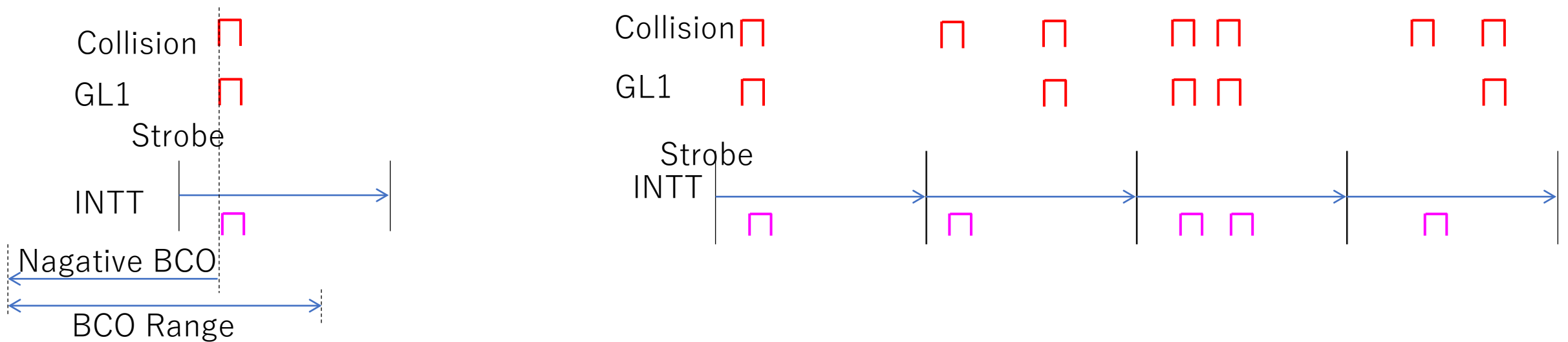


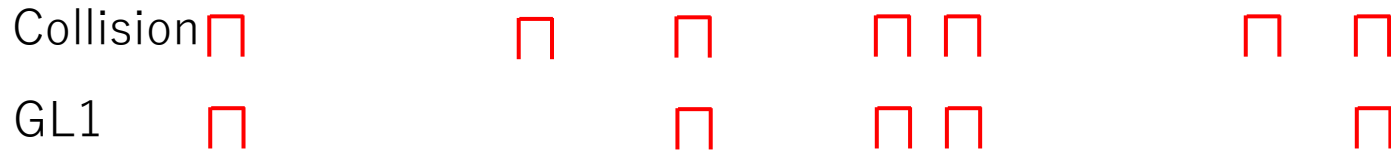
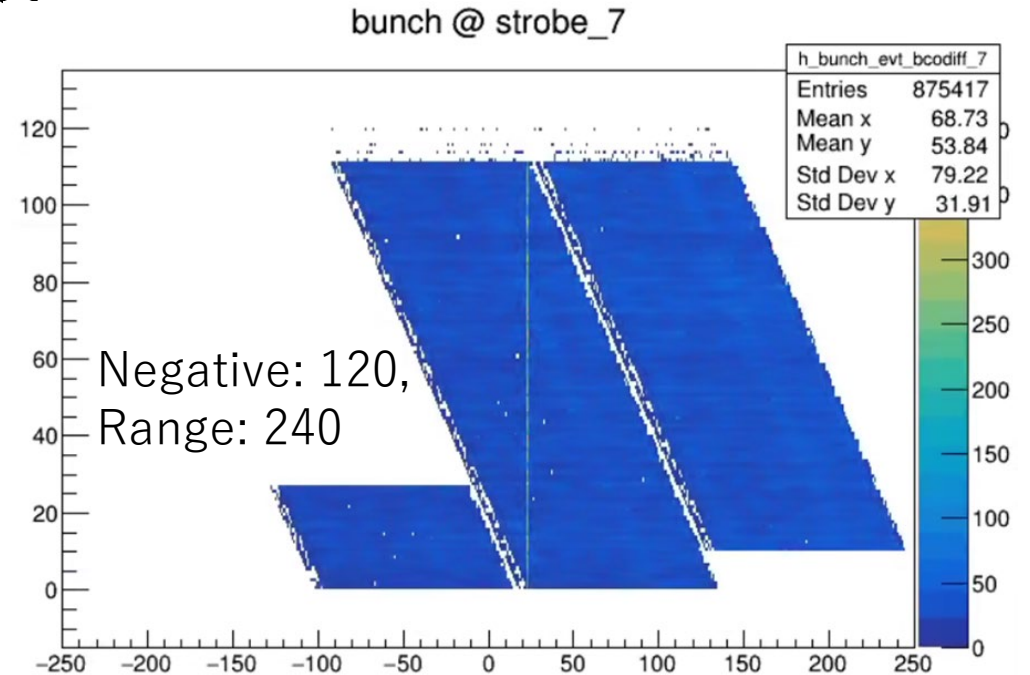
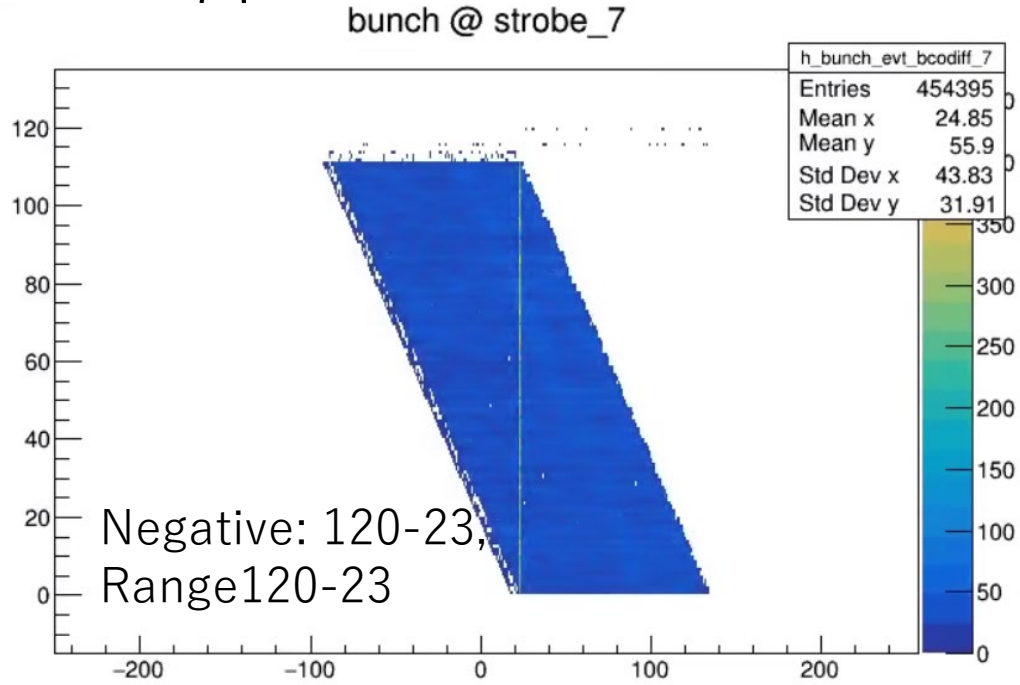
1 BCO DIFF QA plot as offline QA

- BCO diff plots are required as offline QA
- For the streaming mode, I thought it cannot be made using F4A, but I found I can do it.

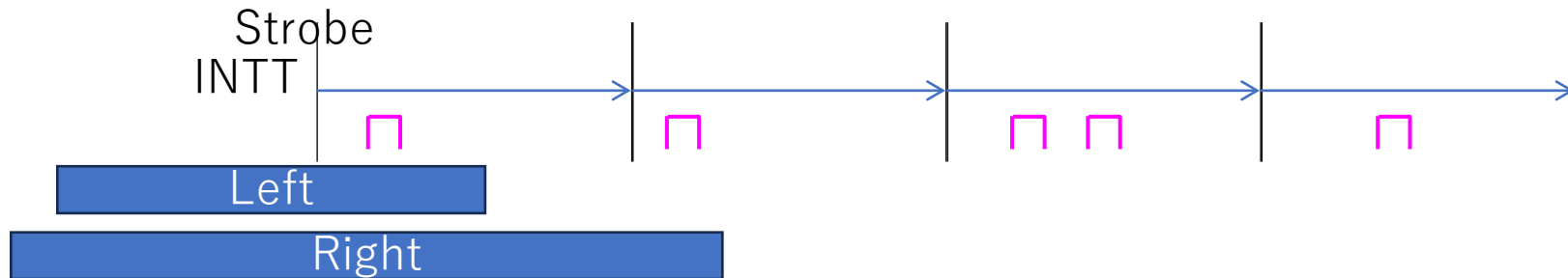
```
SingleInttPoolInput *intt_sngl= new SingleInttPoolInput("INTT_" + to_string(i));  
intt_sngl->SetNegativeBco(120-23);  
intt_sngl->SetBcoRange(120); // 128 + 256  
intt_sngl->AddListFile(iter);  
in->registerStreamingInput(intt_sngl, InputManagerType::INTT);
```



NegativeBCO + BCORange

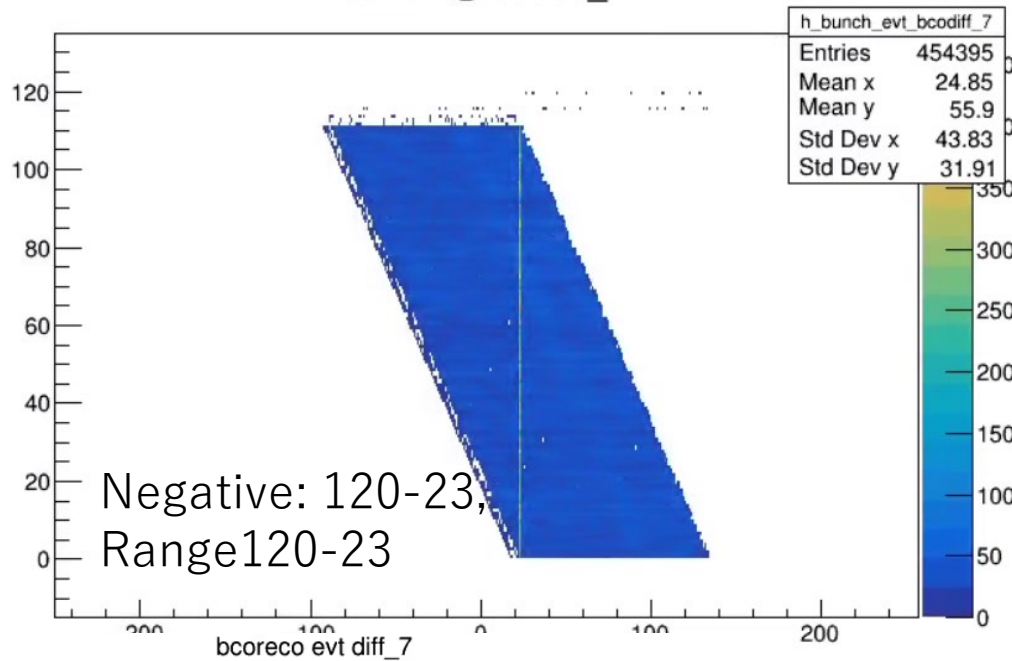


We can choose the range

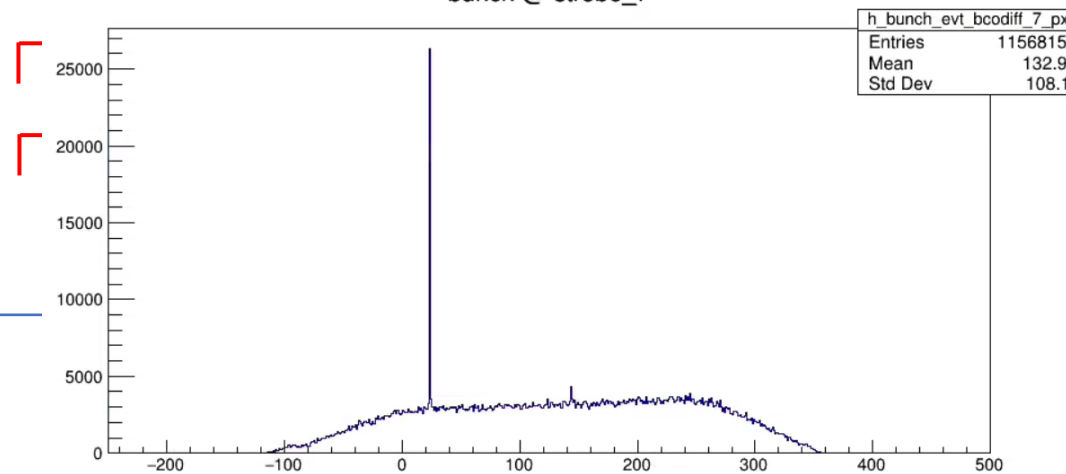
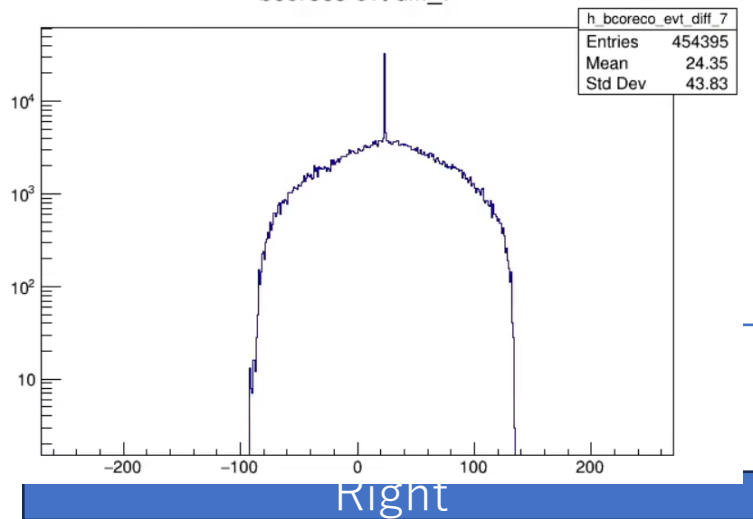
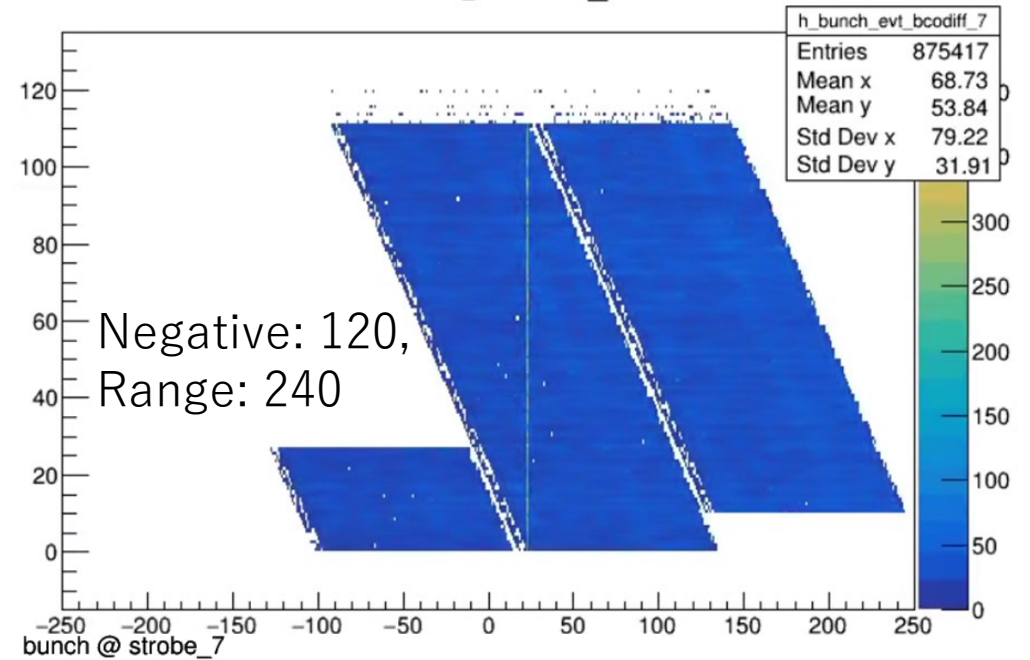


NegativeBCO + BCORange

bunch @ strobe_7



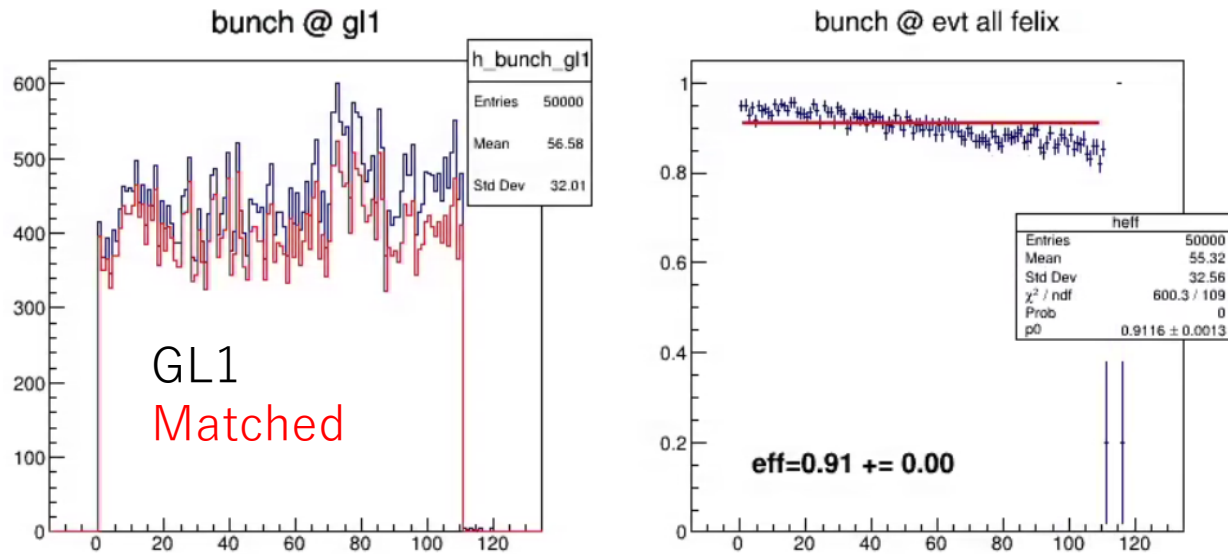
bunch @ strobe_7



Second peak seen.
Could be mixup?

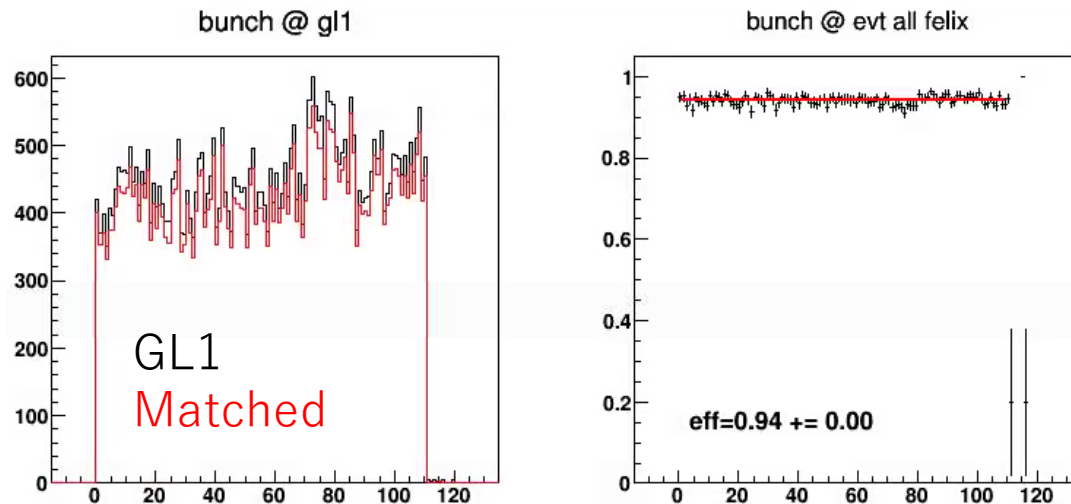
GL1 finding efficiency by Fun4All

Fun4All GL1 finding code



- Efficiency is calculated using Fun4All
- Results looks strange
 - Different with that from my version.
 - Need to investigate

Takashi's GL1 finding code



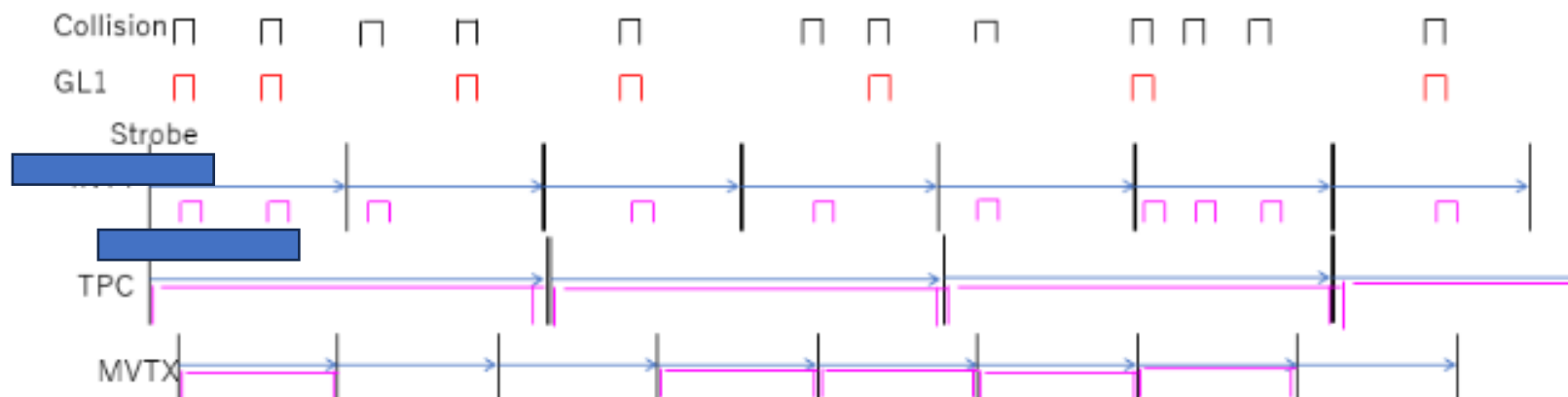
2 Discussion w/ Jaebeom

- Jaebeom also worry about INTT readout. Possible loss of data in readout
- He asked to check if FELIX has data packets from all ladders even in case of no hit and to check if the BCOFULL in the event is consistent
 - No hit ladder create empty packet (only BCOFULL)
 - An event has 112 BCOFULL
- Fun4All decoder cannot use for this. We need to modify the decoder
 - My decoder has this function

3 Event Sync in Fun4All

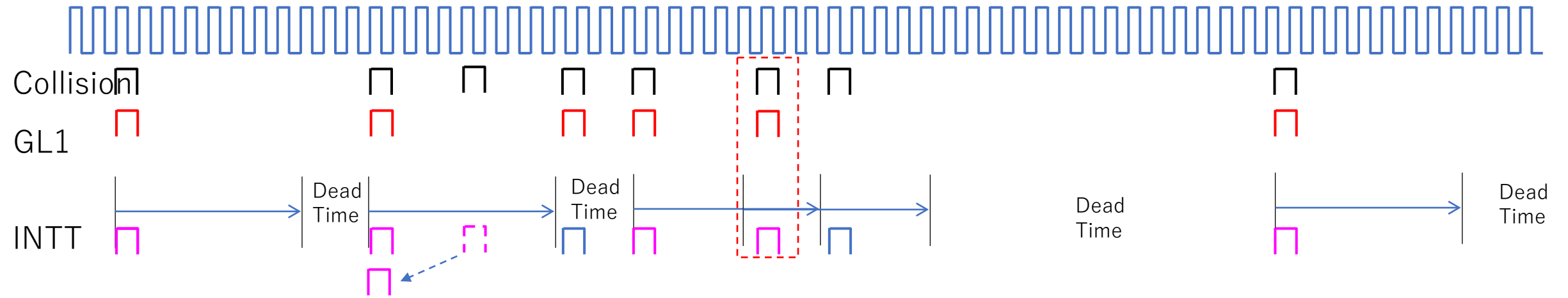
- I brought this issue at the software/tracking meeting. The Issue was recognized, and people started the discussion
 - Not sure if the issue is identified or not
- Fun4All framework uses GL1 as a driver of the event.
 - In stream data, multiple data (timeframe) are grouped together and treated as single chunk.
 - Offline issue: this means that the same stream data is contained in more than one GL1 event
 - Tracking team provides the tool to duplicate the “collision event”.
 - It is too complicated. Good to sync data at DAQ stage. We need to coordinate all stream detectors

Streaming mode



- Fundamental problem: we don't have the same heart beat among the streaming detectors
 - ALICE uses common heart beat
- INTT time frame (strobe cycle) is defined by 120 RHIC clock + Abort Gap(same as 1 RHIC cycle)
 - MVTX time frame is 10us (I am not sure their frame is sync with RHIC cycle),
 - TPC = 2 INTT time frame

Extended mode



- BCOFULL in data is the same with GL1BCO
- Issue/Questions
 - If second GL1 comes during the extended time, what happen?