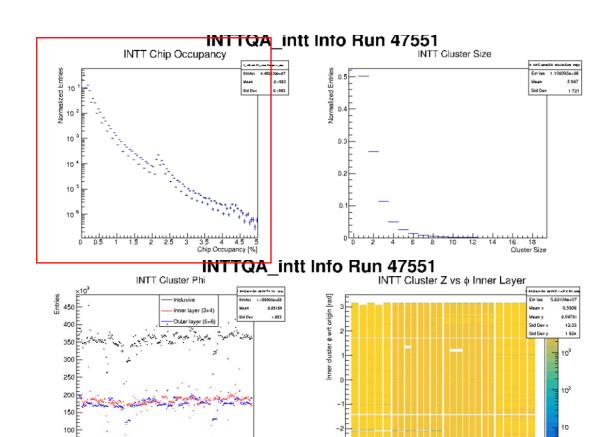
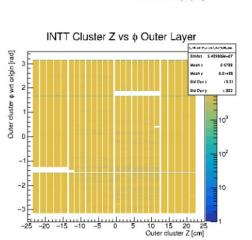
Offline QA and.

Takashi Hachiya Nara Women's University

OFFLINE QA

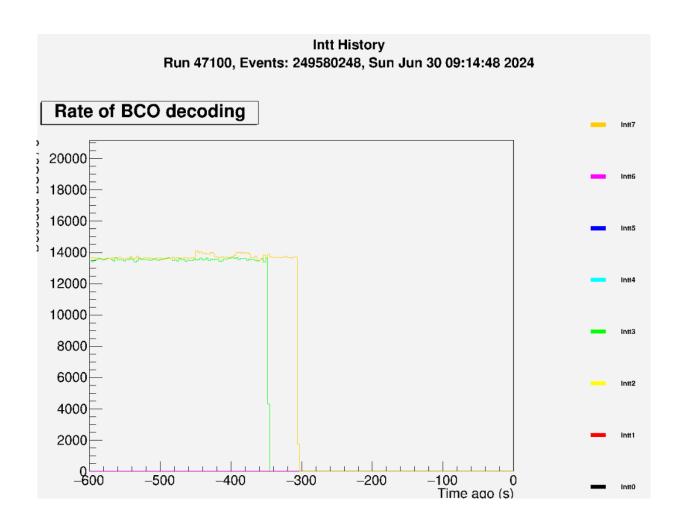
- Offline QA is under development
 - Right after DST production
- QA Status
 - 1st version is implemented by tracking people
- 2 pages
 - Chip QA
 - Hitrate made by TrkrHitSet
 - Cluster size by Cluster
 - Cluster QA
 - Ncluster vs Phi
 - Cluster Hit Map (phi vs z) for inner & outer layer
- Rawhit QA is implemented by Xudong but not shown yet
 - Many plots showing raw hitQA are prepared but not easy to check all. It
 is good to think about a few summary plots
- No further plot implemented yet
 - Decoding rate plot are also important
- Strange peak at 2.2 in hit occupancy





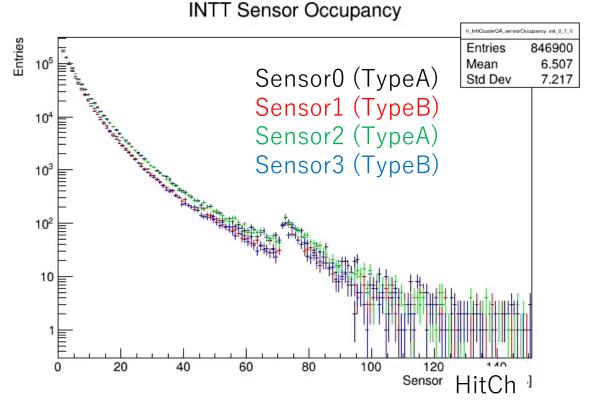
Decoding rate plot from online monitor

- This plot is from the online monitor. Similar plots is needed
 - I think Duration time can be calculated by GL1BCO
- I asked Joseph to implement this in offline QA



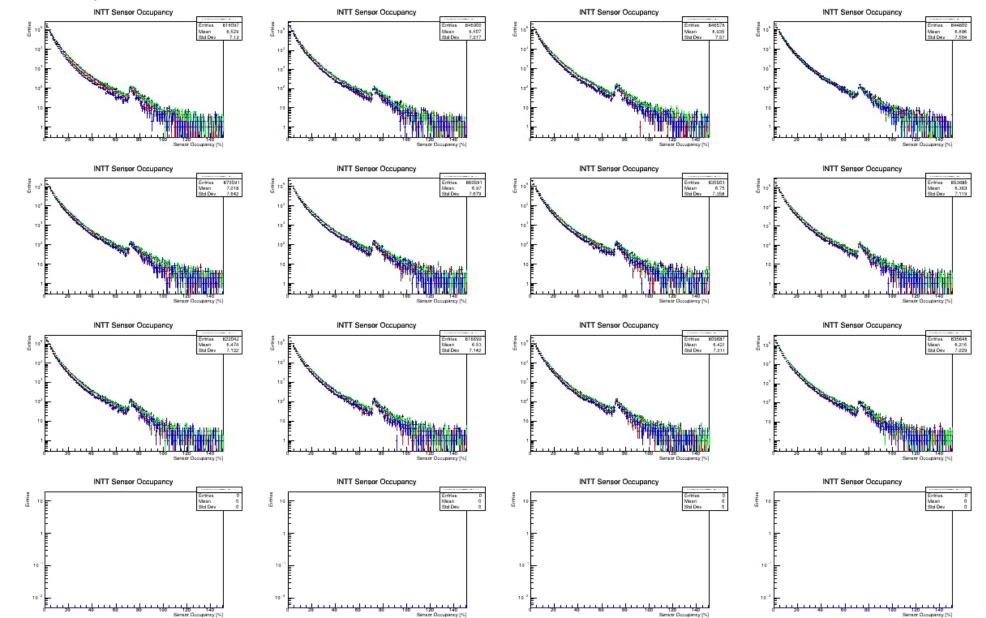
More detailed

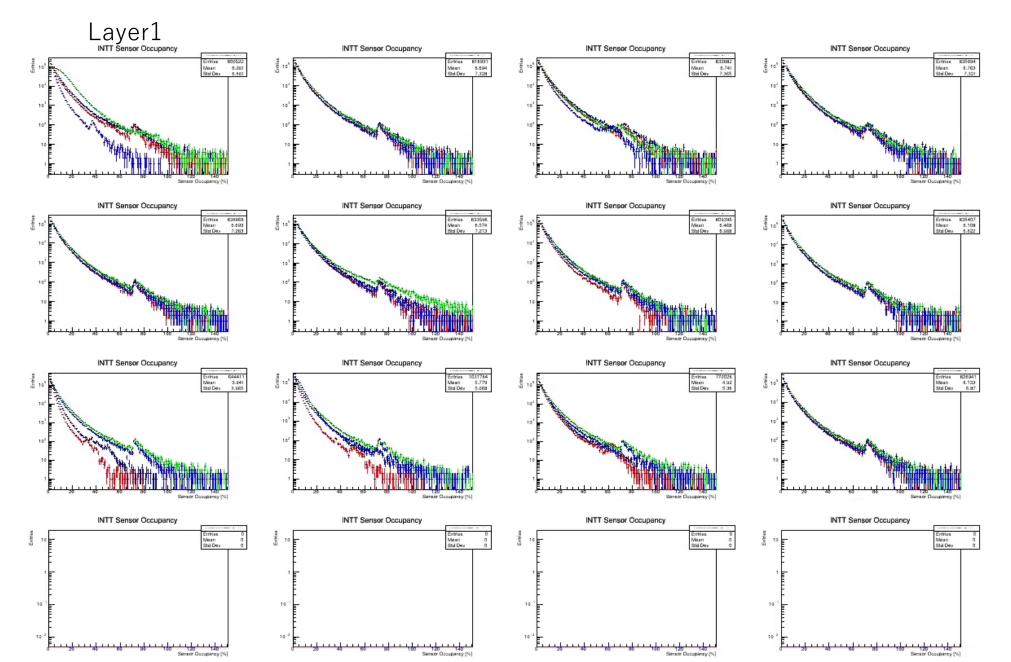
- Occupancy : TrkrHitSet (hit level)
- occupancy = sensor_hits / (128. * 26.)
- Type A / B should be defferent

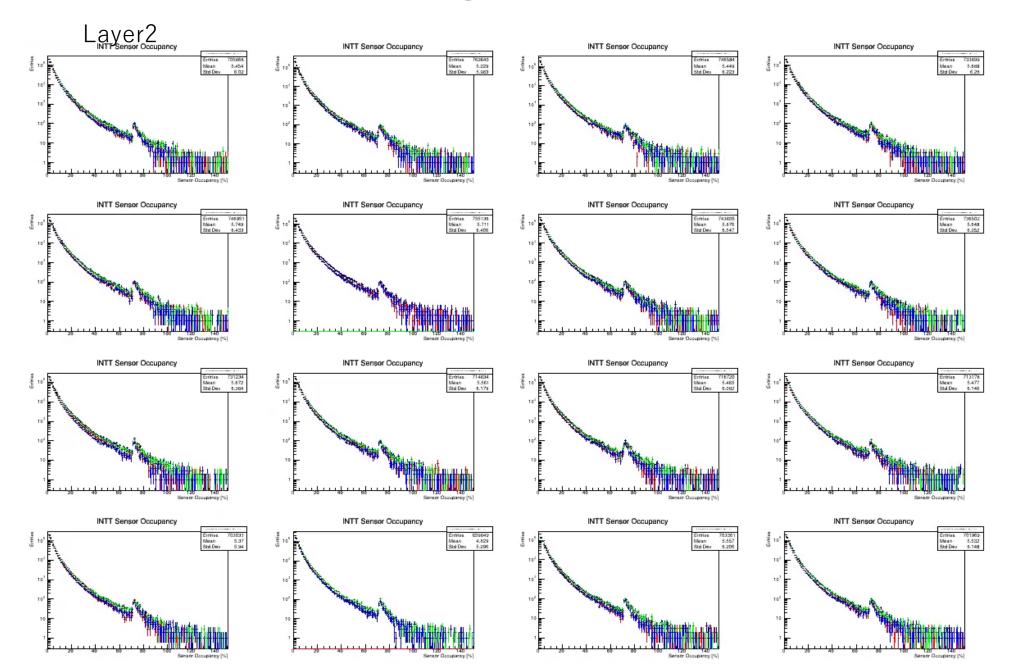


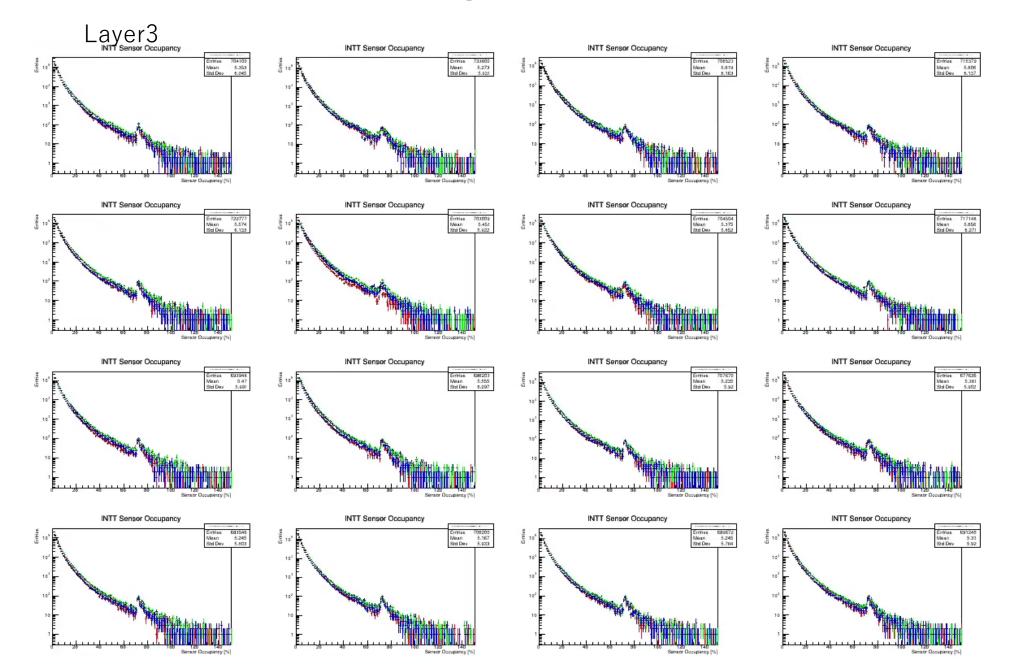
• For TypeA/B, a peak at 73 is appeared for all the sensors. Any ideas?

Layer0









OFFLINE QA

- We are asked to prepare the offline QA plots from the DST production
 - Some people from tracking group are working on this topics
 - Good / Bad examples are also needed as reference.
- Genki's QA list
 - InttRawHit level
 - Hit rate: per FELIX or per ladder after clone hit rejection
 - Clone hitrate
 - BCO timing (Peak position of time timing plot (GTM BCO%0x7f FPHX BCO) per ladder
 - Nbad channel per run
 - Trkr_hit level
 - Hit rate after bad channel rejection
 - ADC per ladder
 - Ratio of the number of Trkr_hit between the inner and the outer layer, South and north side
 - Trkr cluster level
 - Ncluster rate per ladder
 - Cluster size, ADC distribution
- Some additional plots
 - INTT zvertex, INTT X-Y vertex (DCAxy)
 - INTT Ntracklets phi, theta
 - •20 Correlations with other detectors
 - Nclusters with MVTX, EMC

Some raw level are ready but cluster and higher level QA are not implemented