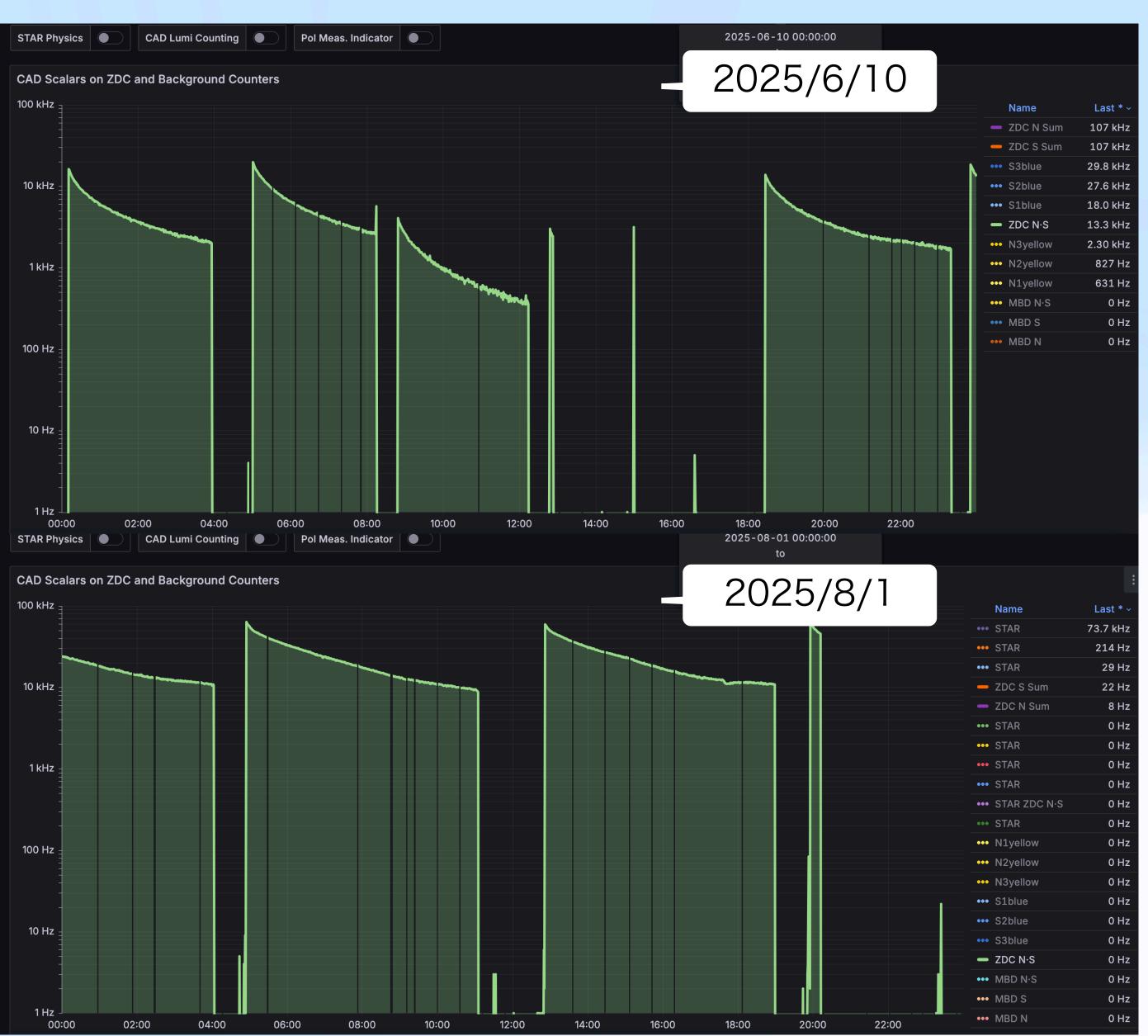
DACO Scan for Run25

2025/08/21 Nao Morimoto

Status of DACO Scan for Run25

- DACO Scan data have been tanken in June.
- Three type of DST data have been analyzed(Reported at the INTT meeting on 7/31)
- The conclusion is DAC0=25 is best NYC Downtown
- DACO Scan data taken in June has low collision rate so we take data with DACO=25 at a higher collision in August to make sure the threshold is still valid.
- Today is the last report of DACO Scan.

1. The difference of data

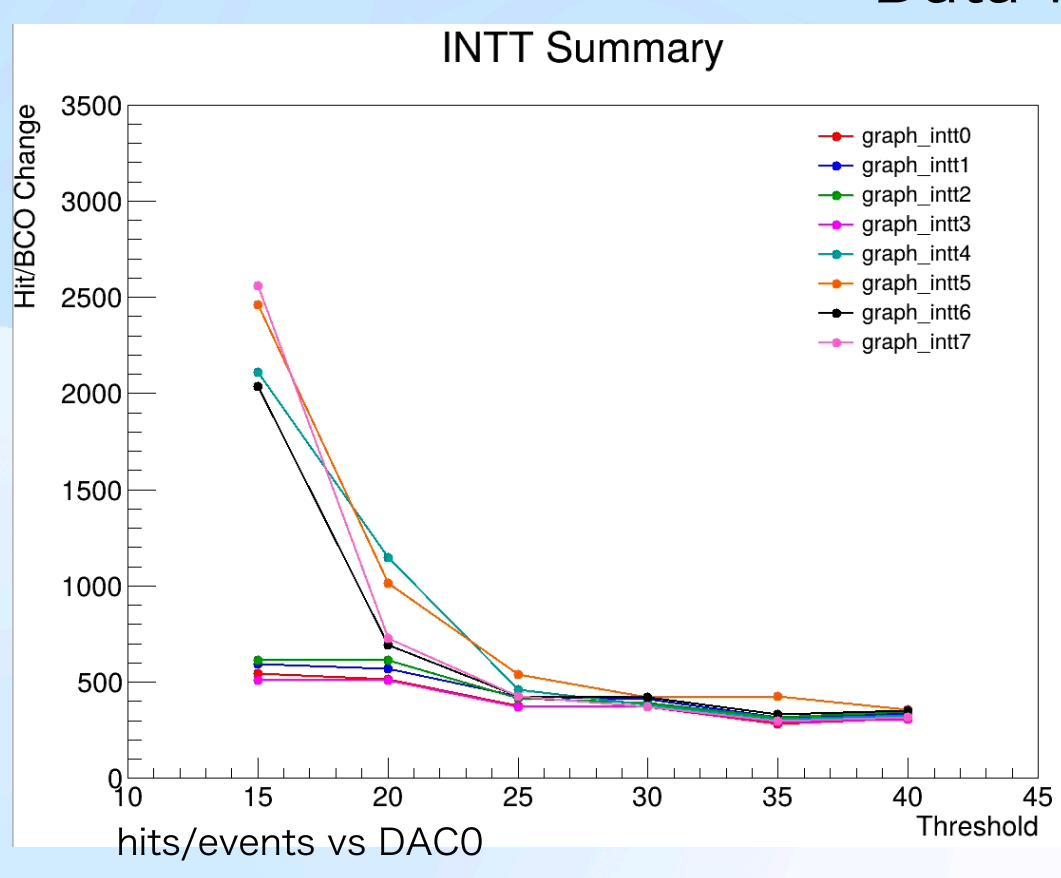


- Value of ZDC N-S is big = collision rate is high
- The data taken in August has five time as big value(ZDC N-S) as taken in June.

2.Result of DAC0 scan data (reported at INTT meeting 7/31)

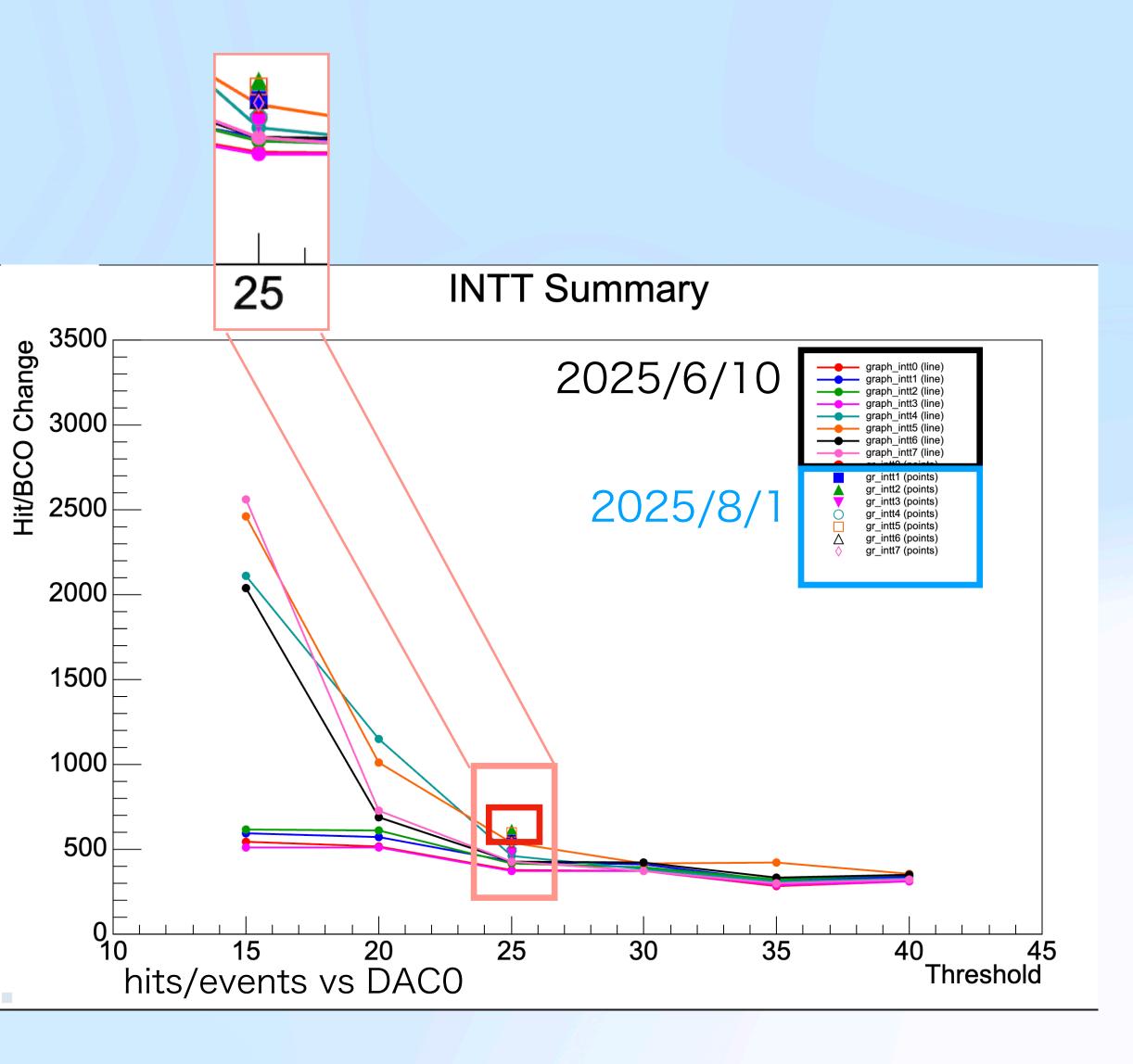
Comparing hitrate of data taken different thresholds

Data with beam / magnetic (Au Au collision in 2025)



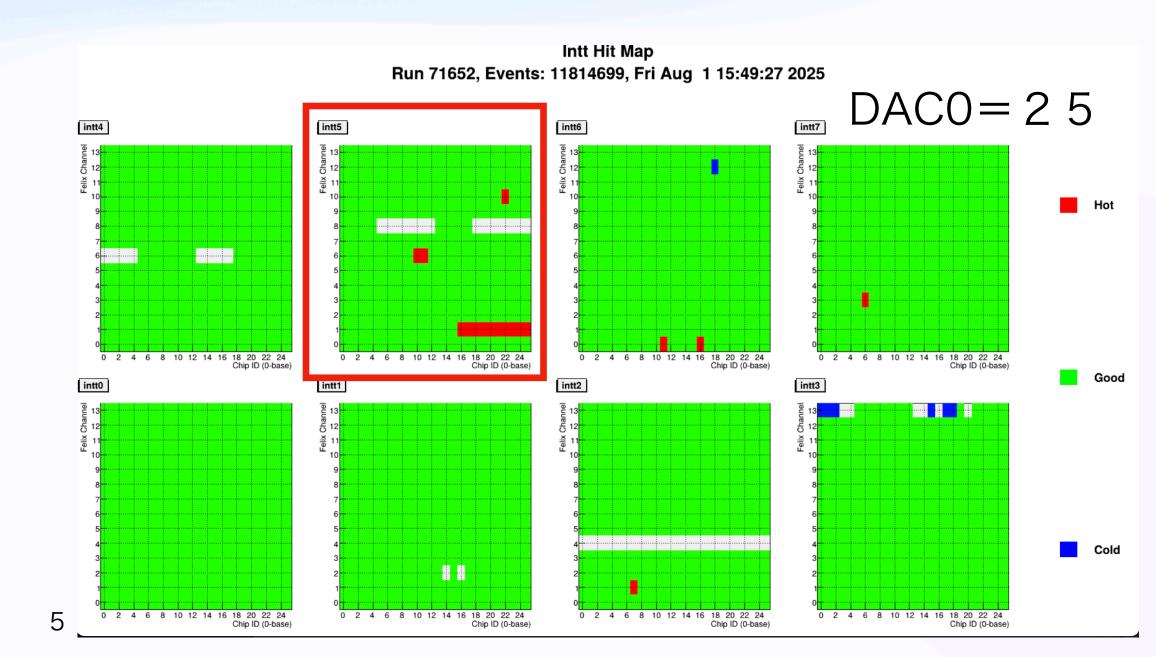
Number of run	DACO	Number of event	Date
66711	15	159160	2025/06/10
66709	20	162210	2025/06/10
66706	25	161755	2025/06/10
66703	30	145423	2025/06/10
66695	35	171177	2025/06/10
66700	40	168058	2025/06/10

3. Comparison of the hit rates between June and August data

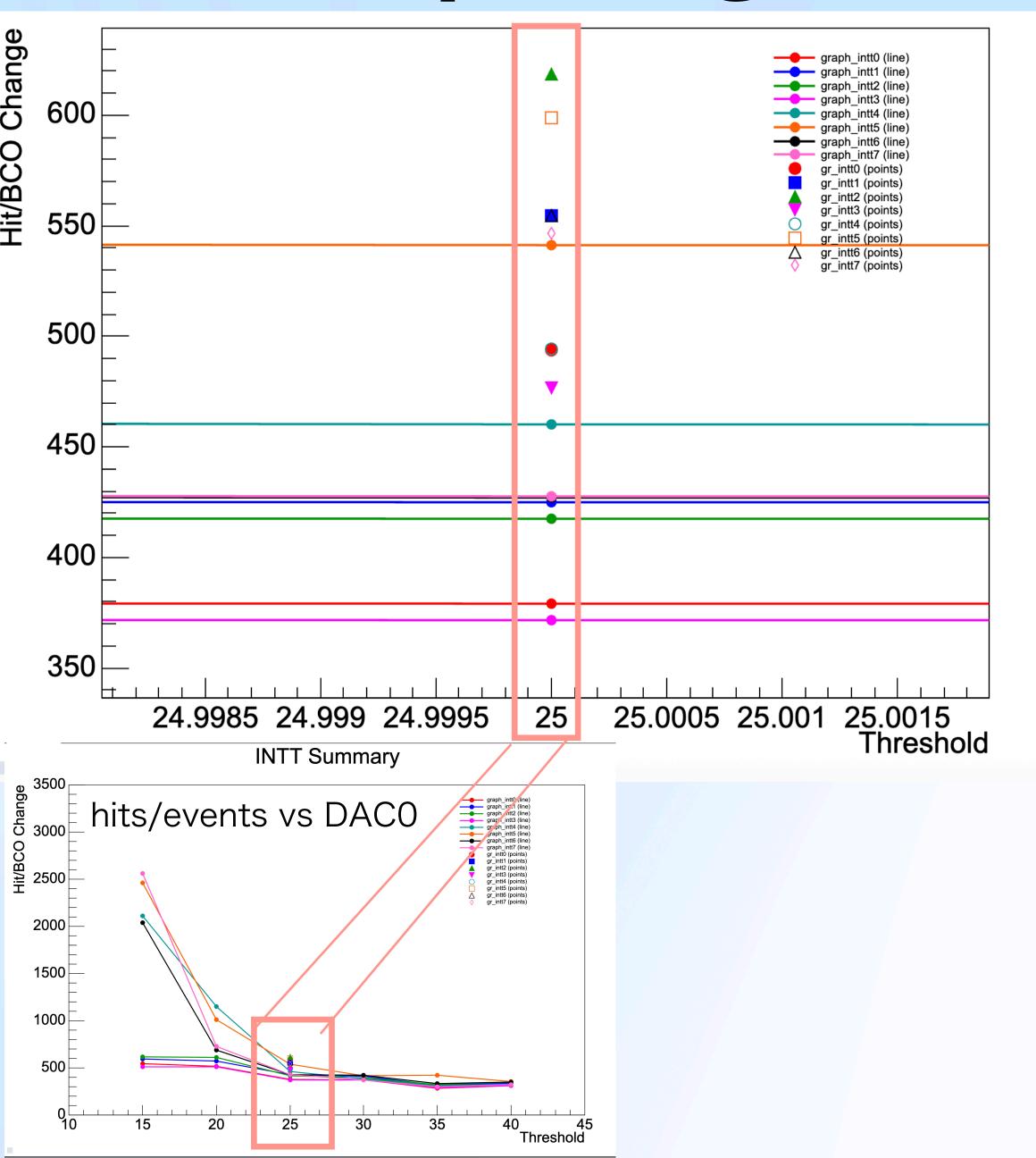


Conclusion:

hit rate doesn't depend on collision rate Intt2,5's hit rate is high



4. Comparing hit rate



There are no big differences between hit rate of August's data and of June's

Final conclusion:

It seems ok with DAC0=25!

5.Hit map online monitoring for DAC0=25

