

DAC0 Scan for Run25

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Status of DAC0 Scan for Run25

- DAC0 Scan data is taken in June.
- I analyzed three types of data (I reported 7/31 at INTT English MT)
- The conclusion is DAC0=25 is best
- DAC0 Scan data taken in June has low collision rate so we take data with higher rate setting DAC0=25 in August.
- Today is the last report of DAC0 Scan.

1.The difference of data

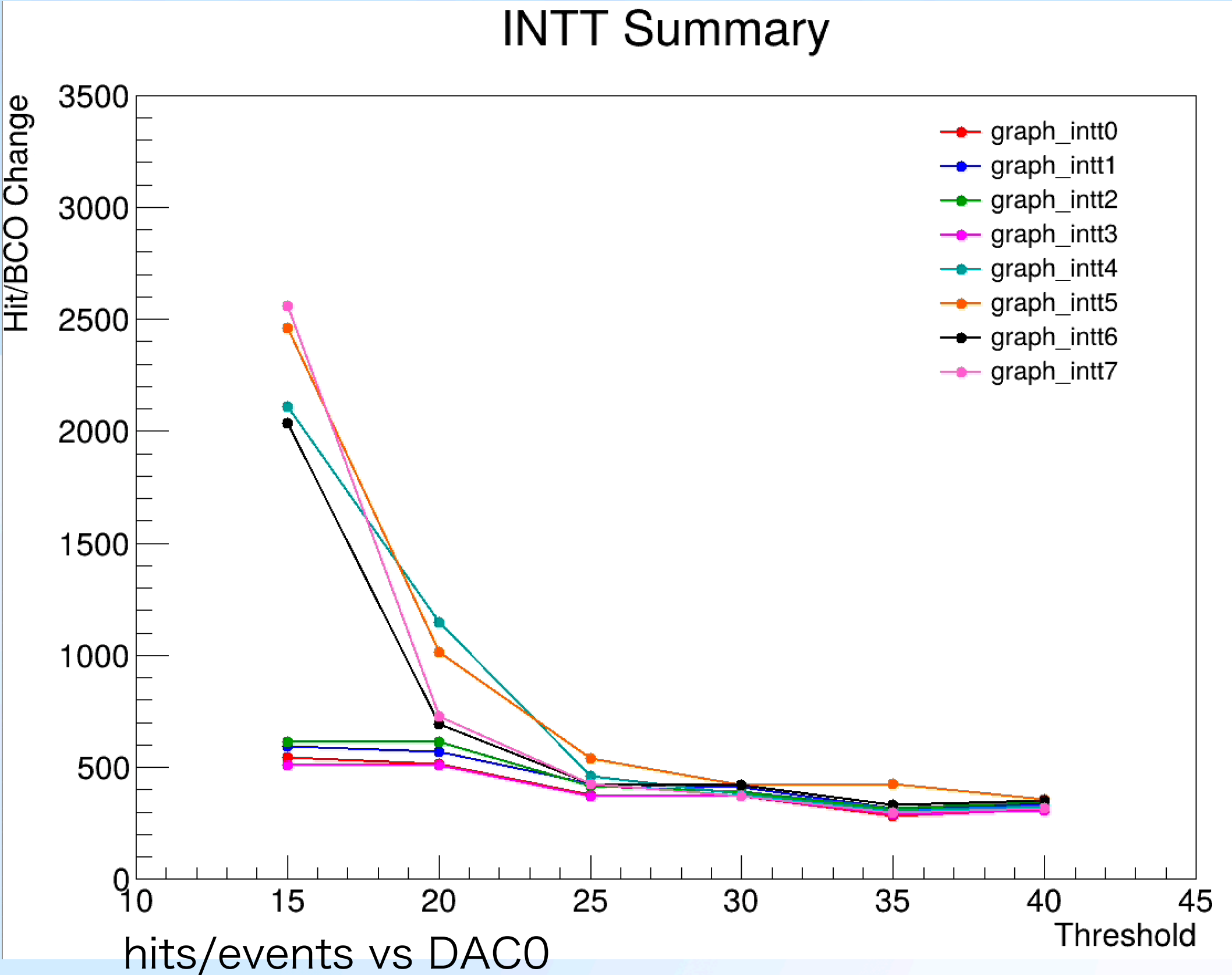


- Value of ZDC N-S is big = collision rate is high
- The data taken in August has **five** time as big value(ZDC N-S) as taken in June.

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

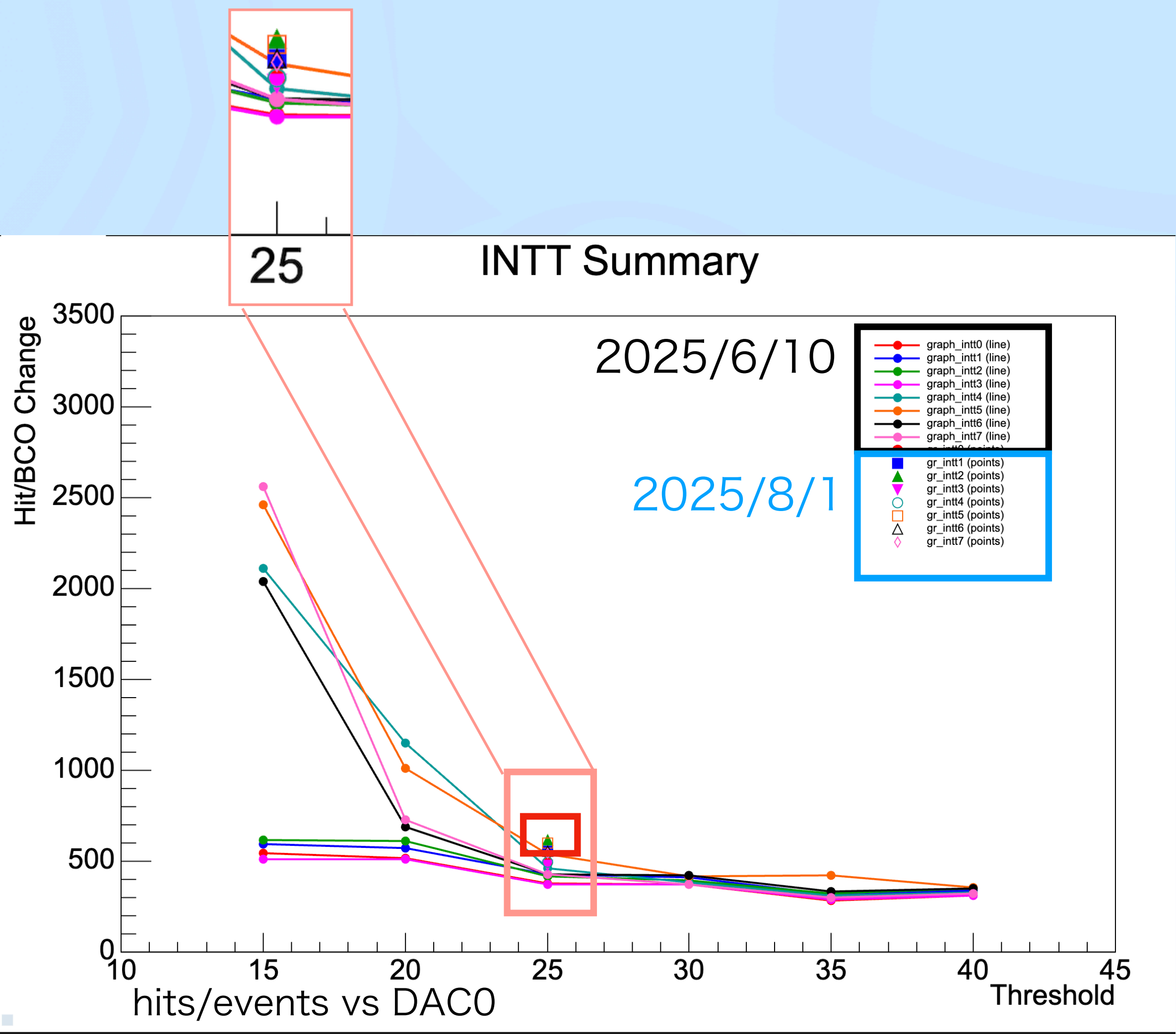
Comparing hitrate of data taken different thresholds

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



Number of run	DAC0	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

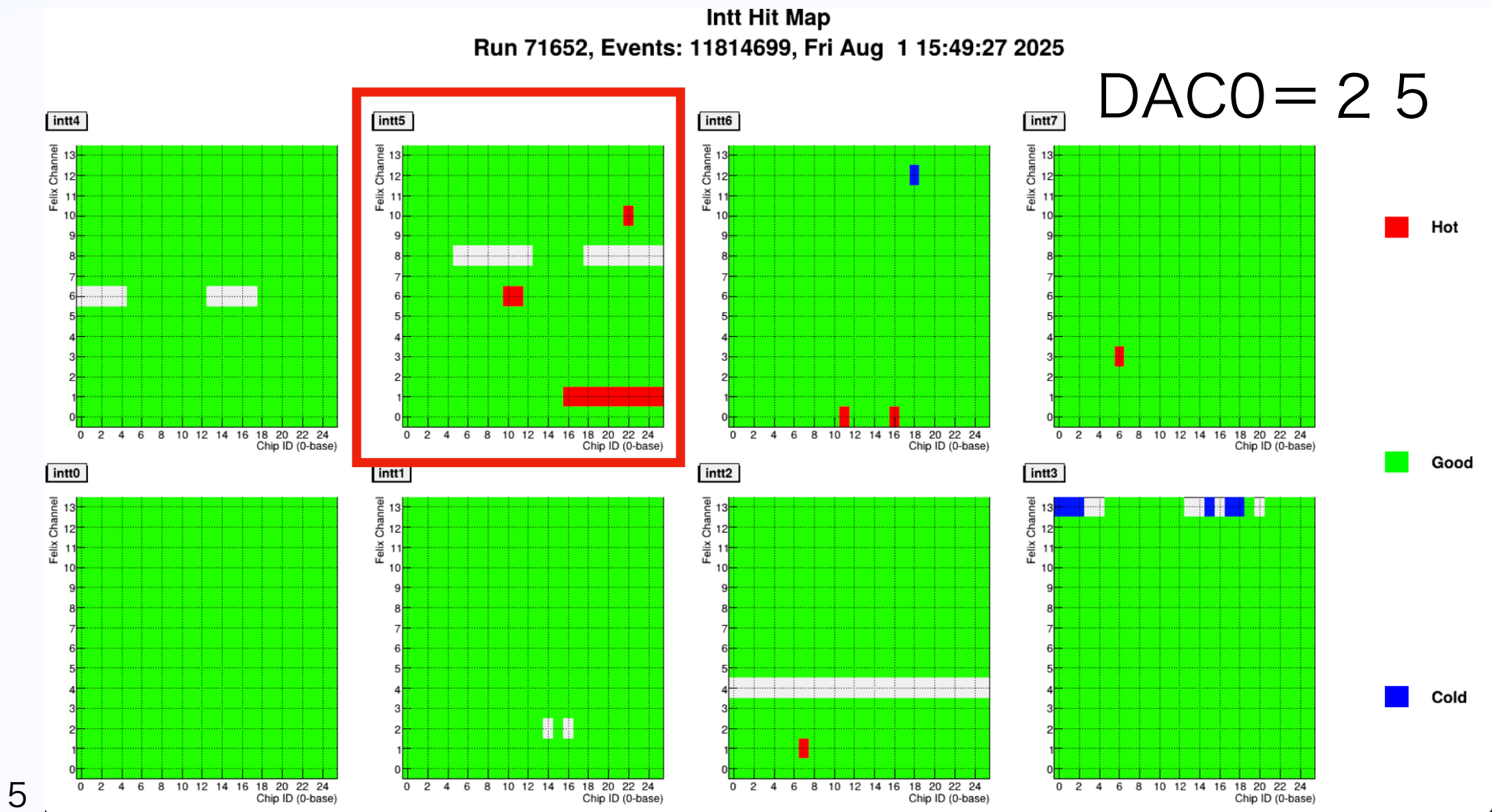
3.Comparison of the hit rates between June and August data



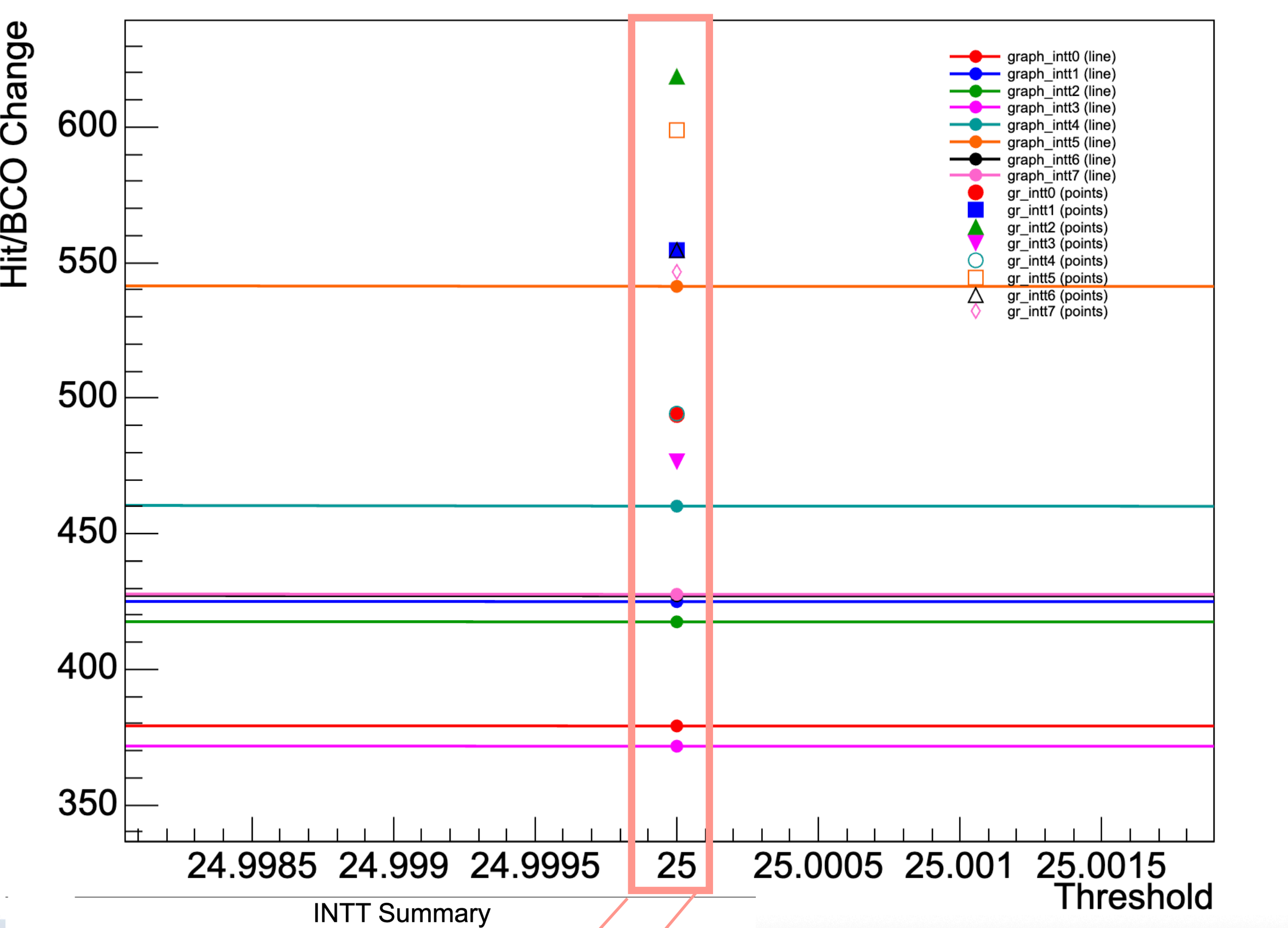
Conclusion :

hit rate doesn't depend on collision rate

Intt2,5's hit rate is high



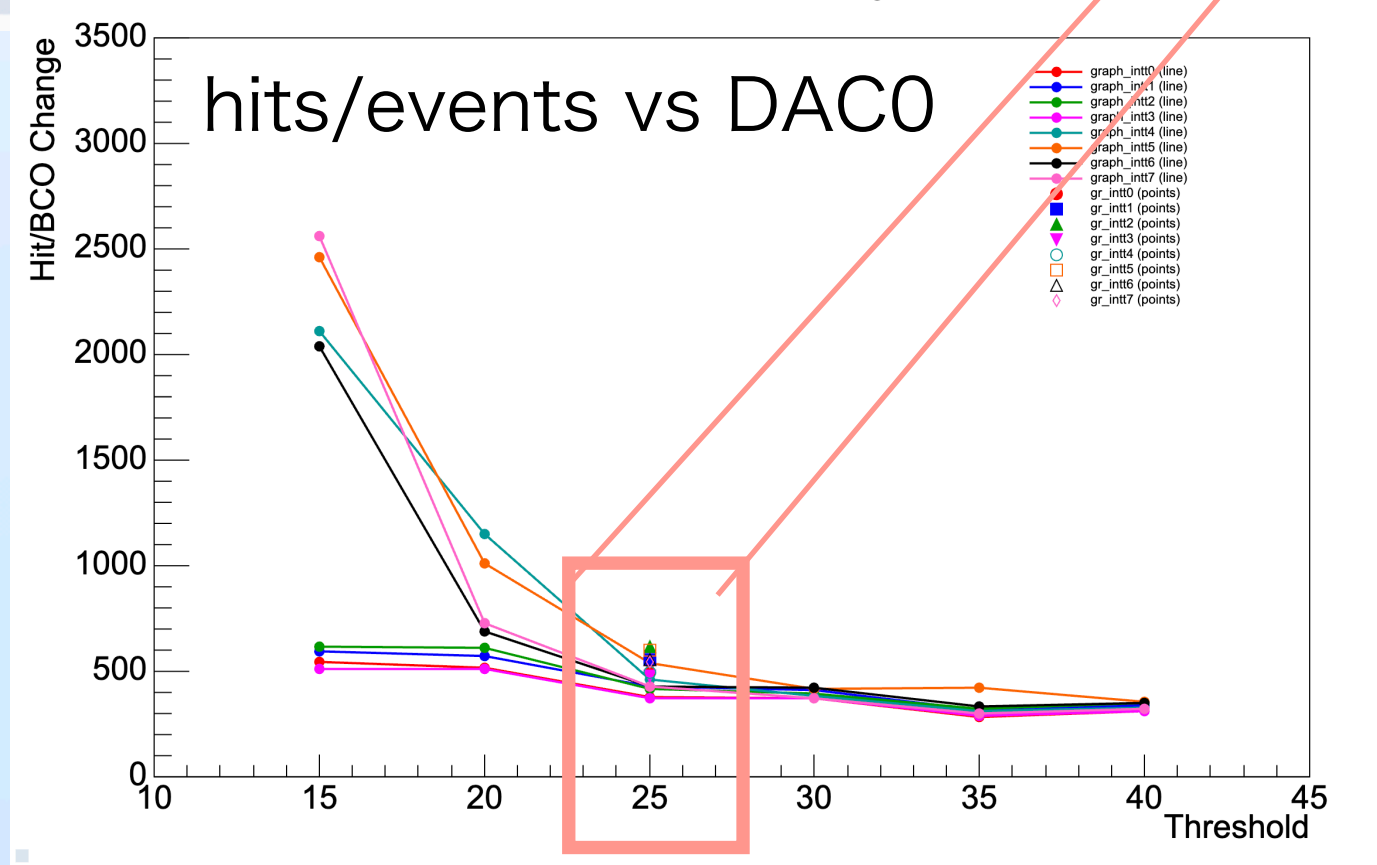
4. Comparing hit rate



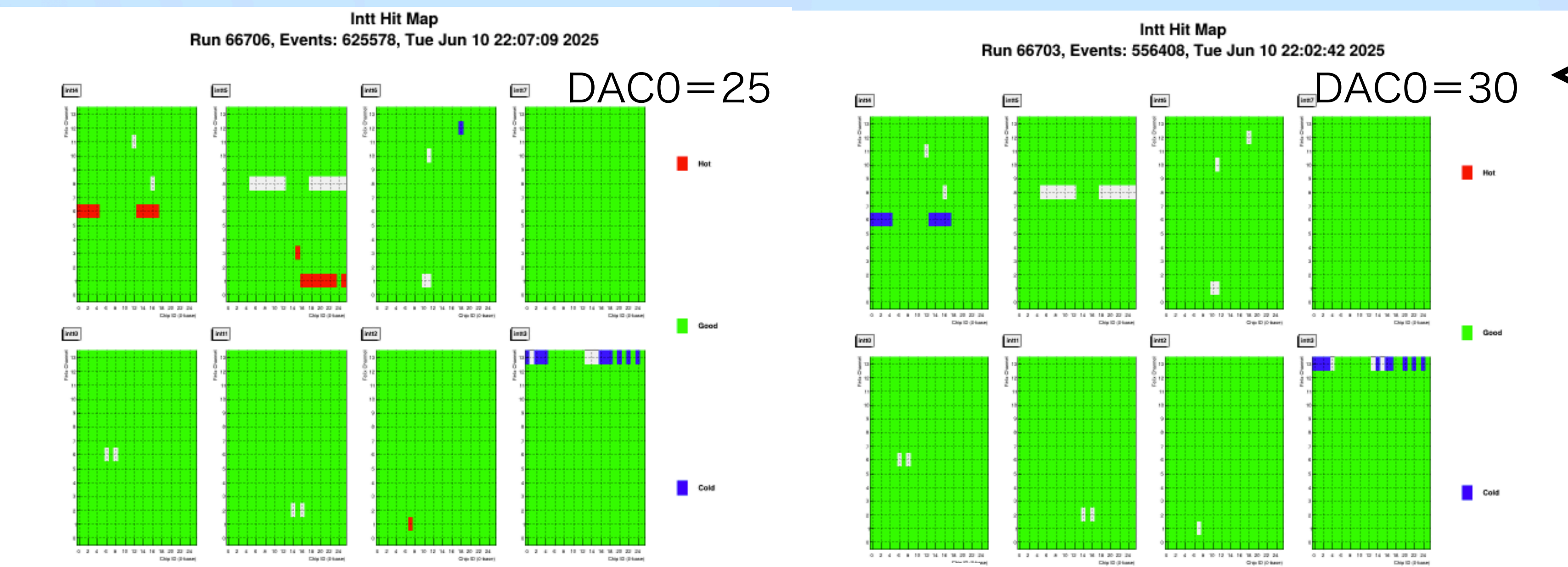
There are no big differences between hit rate of August's data and of June's

Final conclusion:

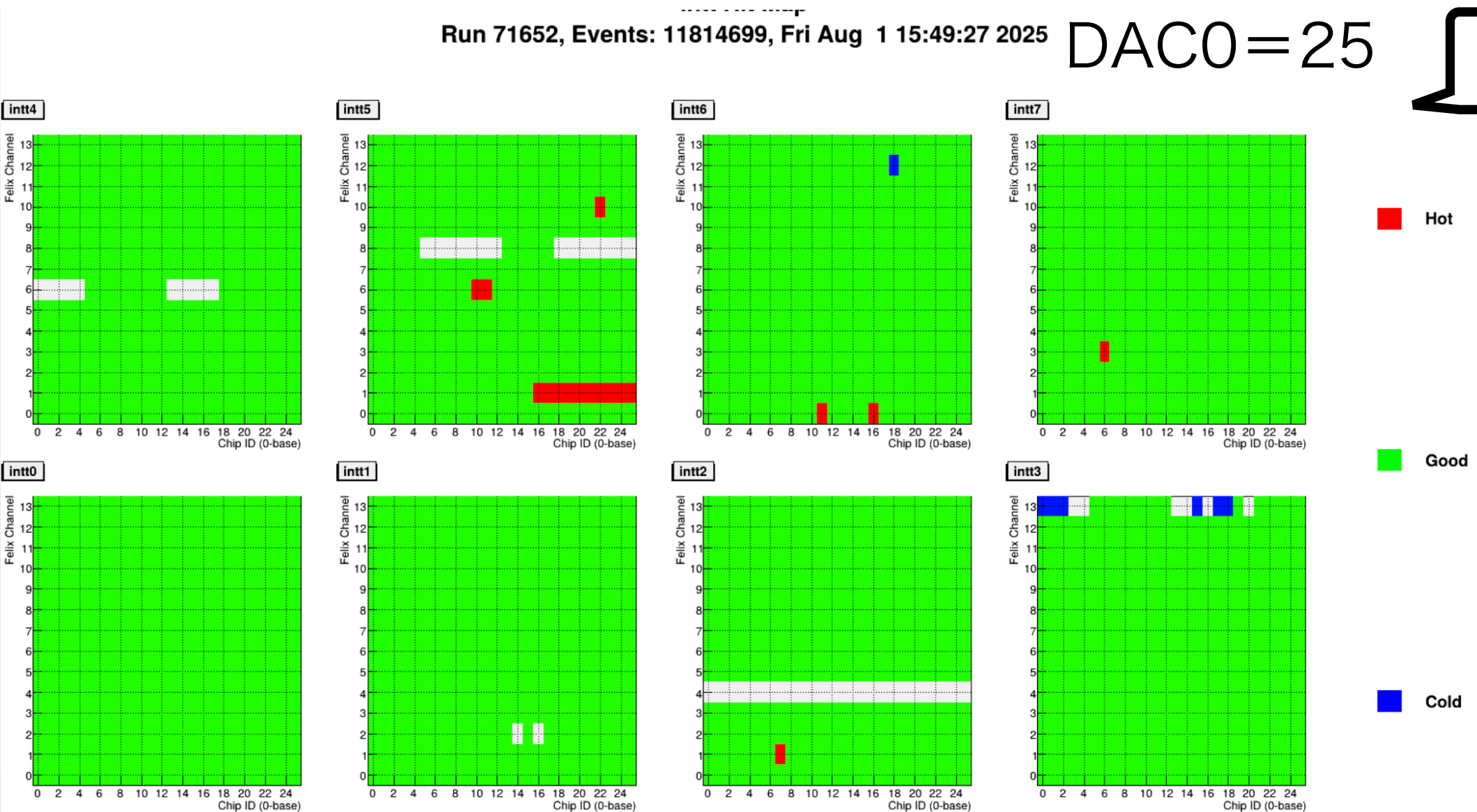
It seems ok with DAC0=25 !



5.Hit map online monitoring for DAC0=25



June



August

- Some hot ch appear at same place(DAC0=25)
 - DAC0=30 don't have hot ch
- The hot channel threshold for the hit map online monitoring has to be updated for DAC0=25