Korea Workshop (2024/11/18 ~11/29)

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Analysis Plan during INTT workshop

Analysis topic

Searching the best value of DAQ0 to cut off a lot of noise

Current knowledge/status of this topic

- I made a linear function histgram of run data from DAC scan (My state)
- · I made a code to be able to make other Run's one by changing written number

Goal for the workshop

- Making the graph which tells us which value is the best as DACO's value
- Leranning about DAC more

Milestones to reach to my goal

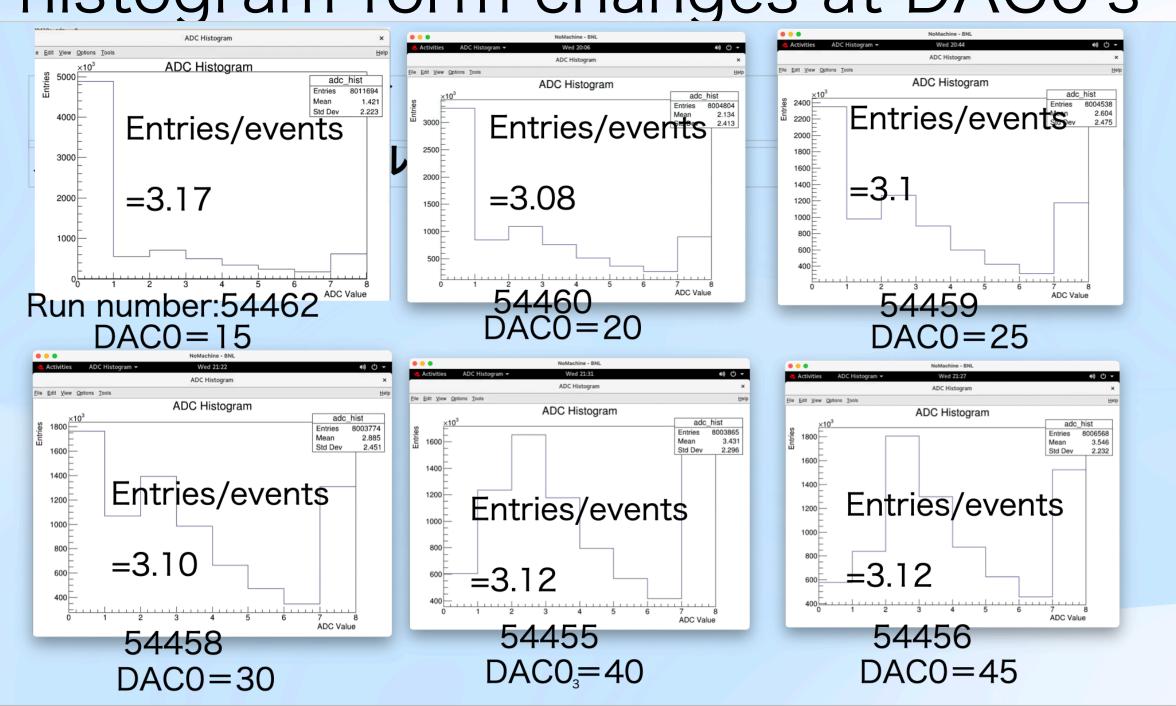
- Making other linear function histgrams of run data from DAC scan ← I did last week
- Making graph about relation of DACO's value and the number of entries per Run data

Summery of middle presentation event number depending on DAC0's minimum value

• [What I did] I made histgram about entries and ADC depending on different DAC0's minimum value

[result] I found that ADC's histogram form changes at DACO's

minimum value = 30~40.



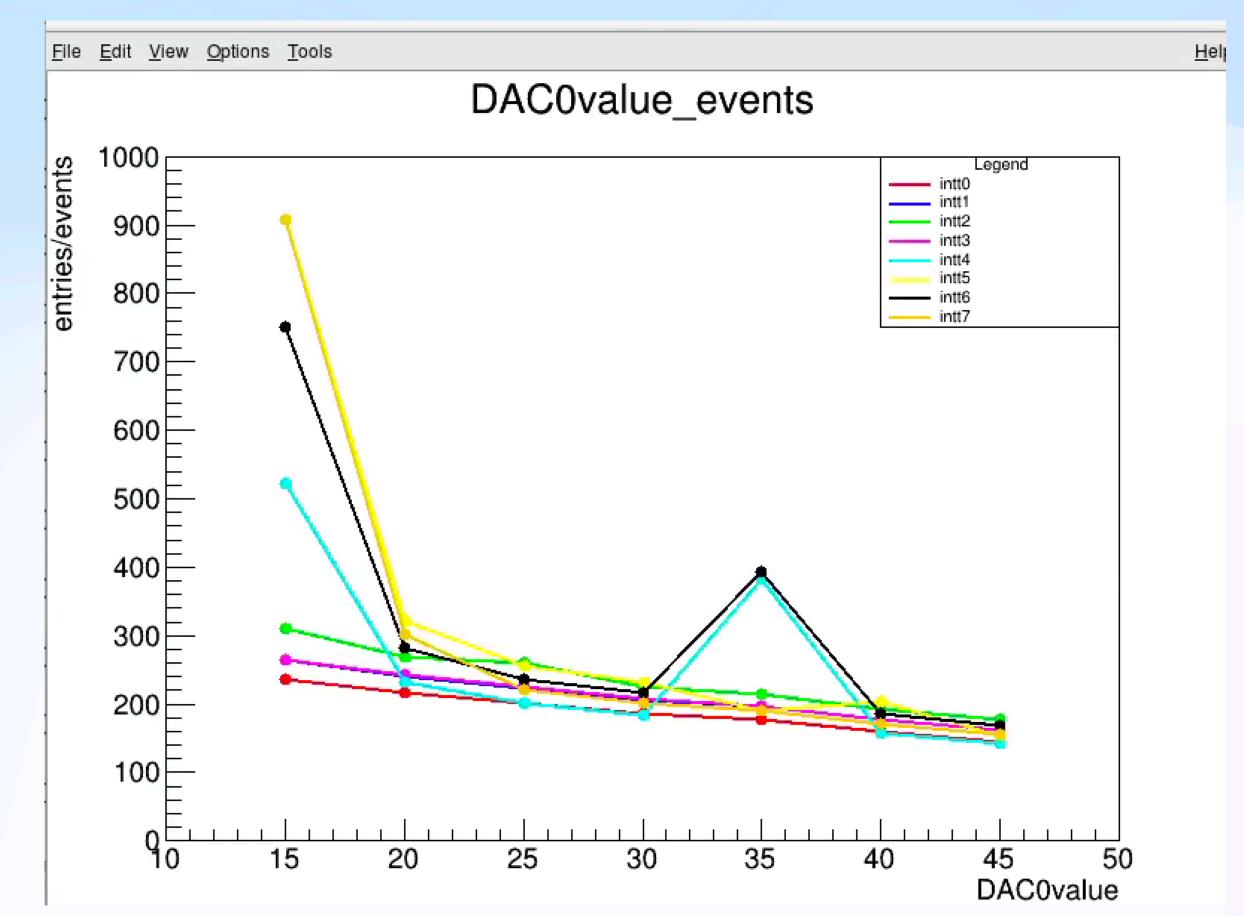
About what I did this week

- Making graph about relation of DACO's minimum value and the number of hits per events from intt0~7 data
- I tried to make graph about relation of DAC0's minimum value and the number of hits per events from intt0~7's modules

Making graph about relation of DAC0's minimum value and the number of entries per events from intt0~7 data

I found that the number of hits/events decrease by increasing

DACO's minimum value



About what I did this week

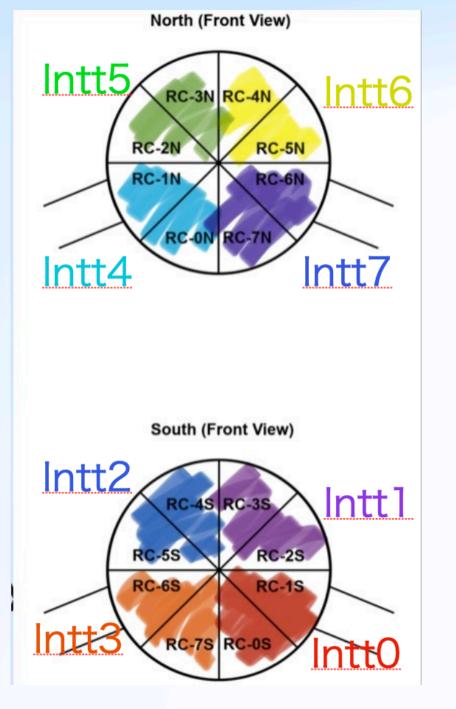
- Making graph about relation of DACO's minimum value and the number of hits per events from intt0~7 data
- I tried to make graph about relation of DAC0's minimum value and the number of hits per events from intt0~7's modules

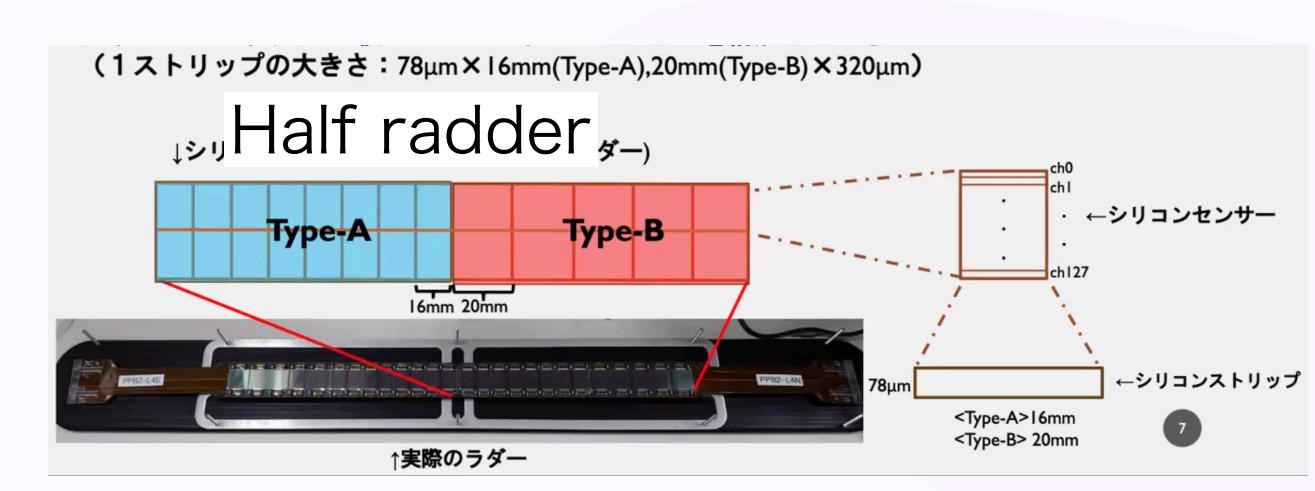
What is module?

- Intt detecter is consisted by intt0~intt7
- Each intt0~7 has 14 half rather

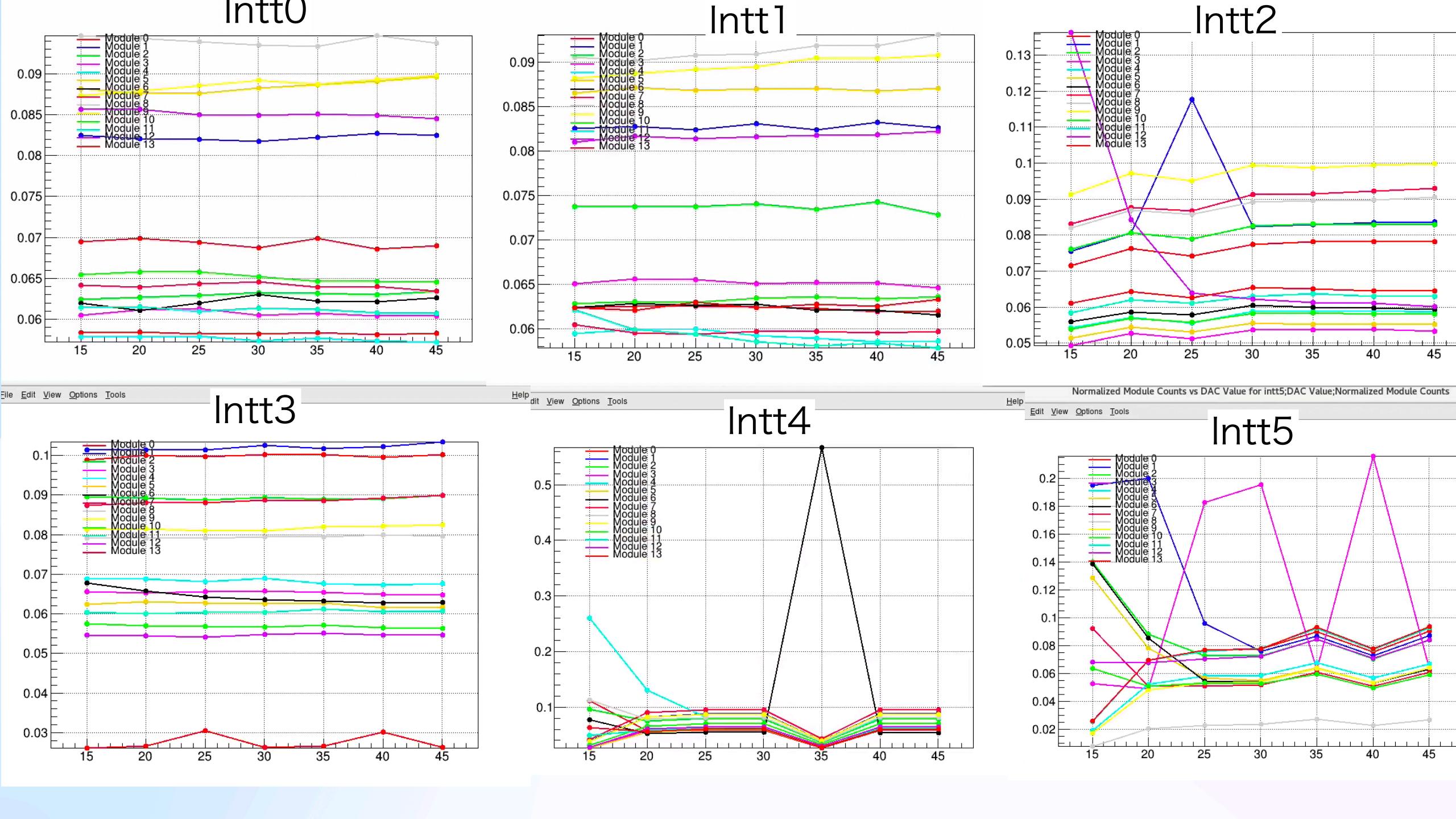
Each half radder has 13 modules which is consists by 8 typesA and 5

typeB.

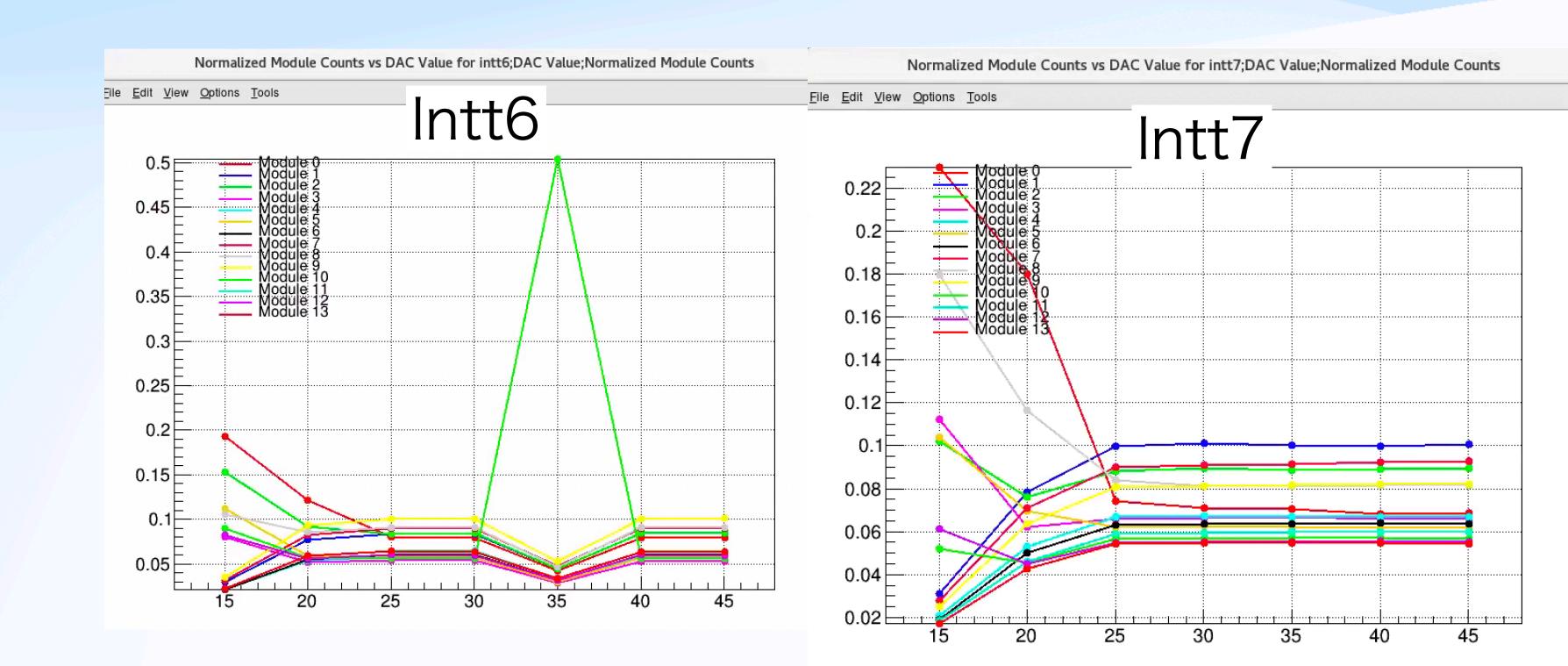




 relation of DACO's minimum value and the number of hits/events from intt0~7's modules(10,000events)

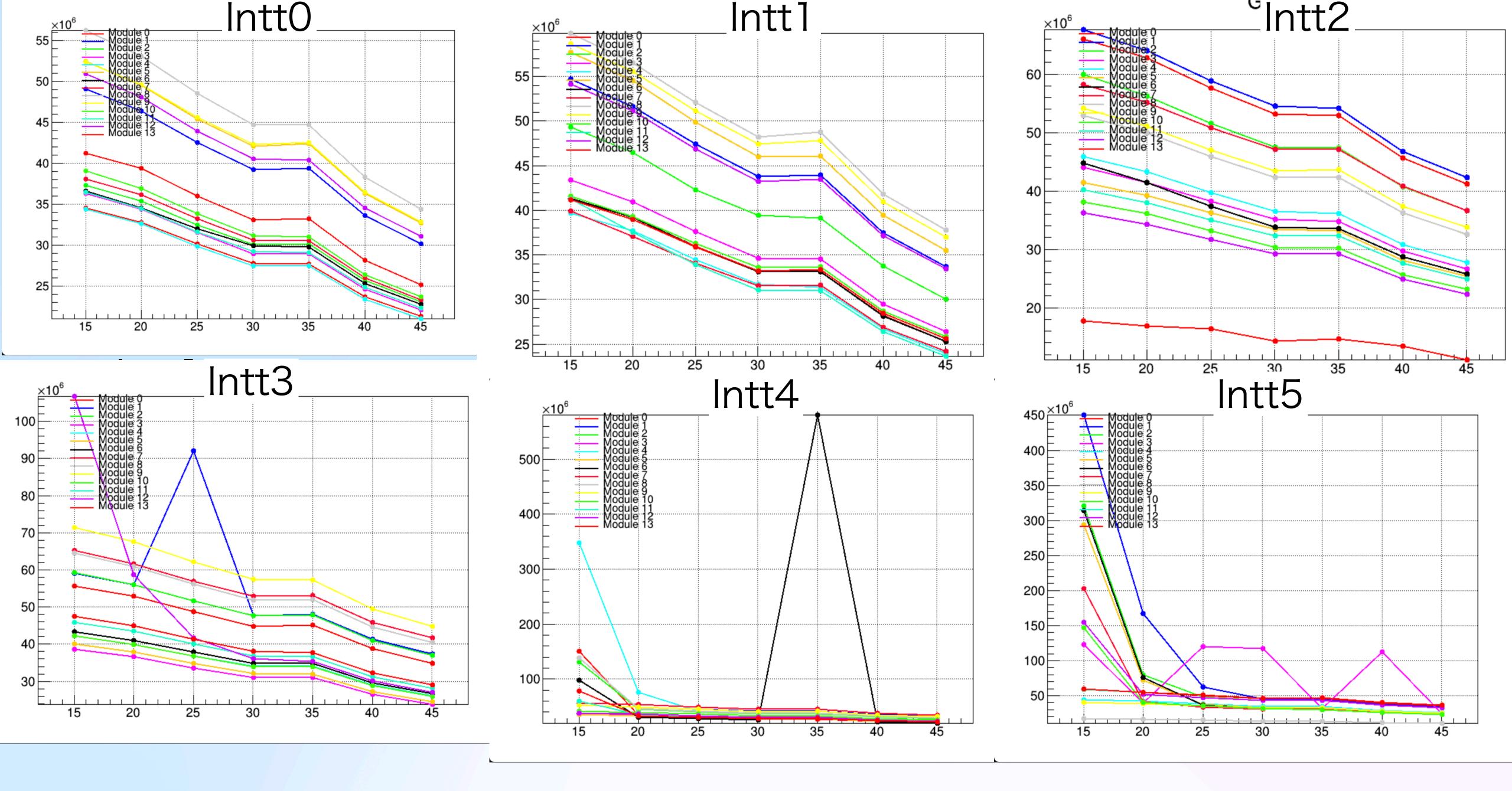


- I tried to make graph about relation of DACO's minimum value and the number of hits per events from intt0~7's modules
 - I found that half of modules increase the number of hits/events from intt77 graph
 - These graph may be incorrect…

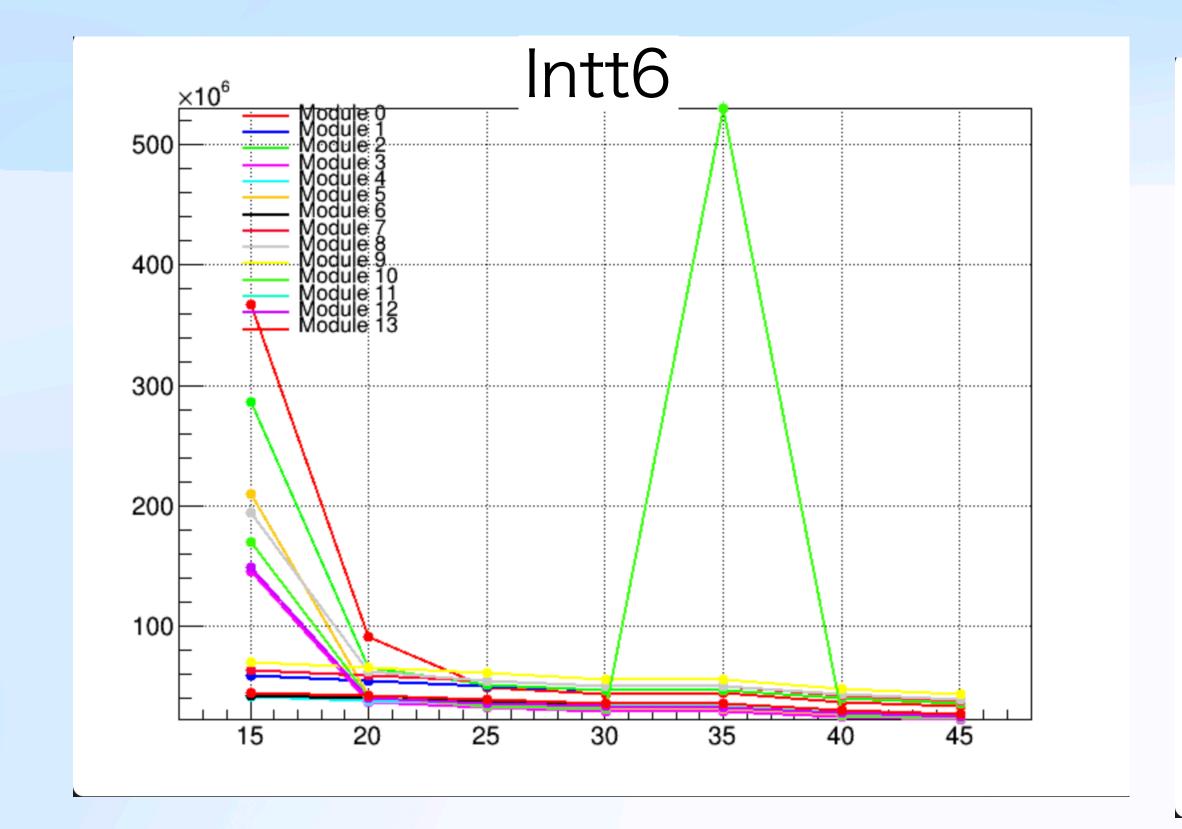


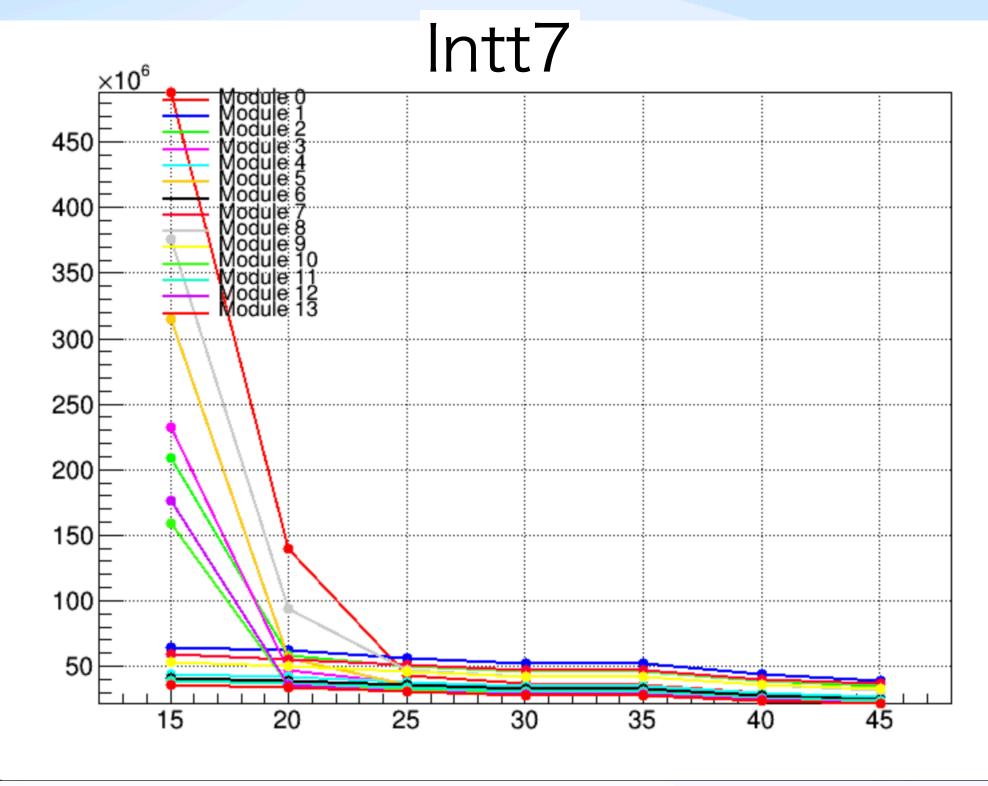
The graph made in around 2,500,000 events (relation with DACO's minimum value and the number of hits)

Akitomo made in around 2,500,000 events with my code!



- It became more realistic than before
- It seems that most of modules's number of hits decrease
- This graph seem to be correct…



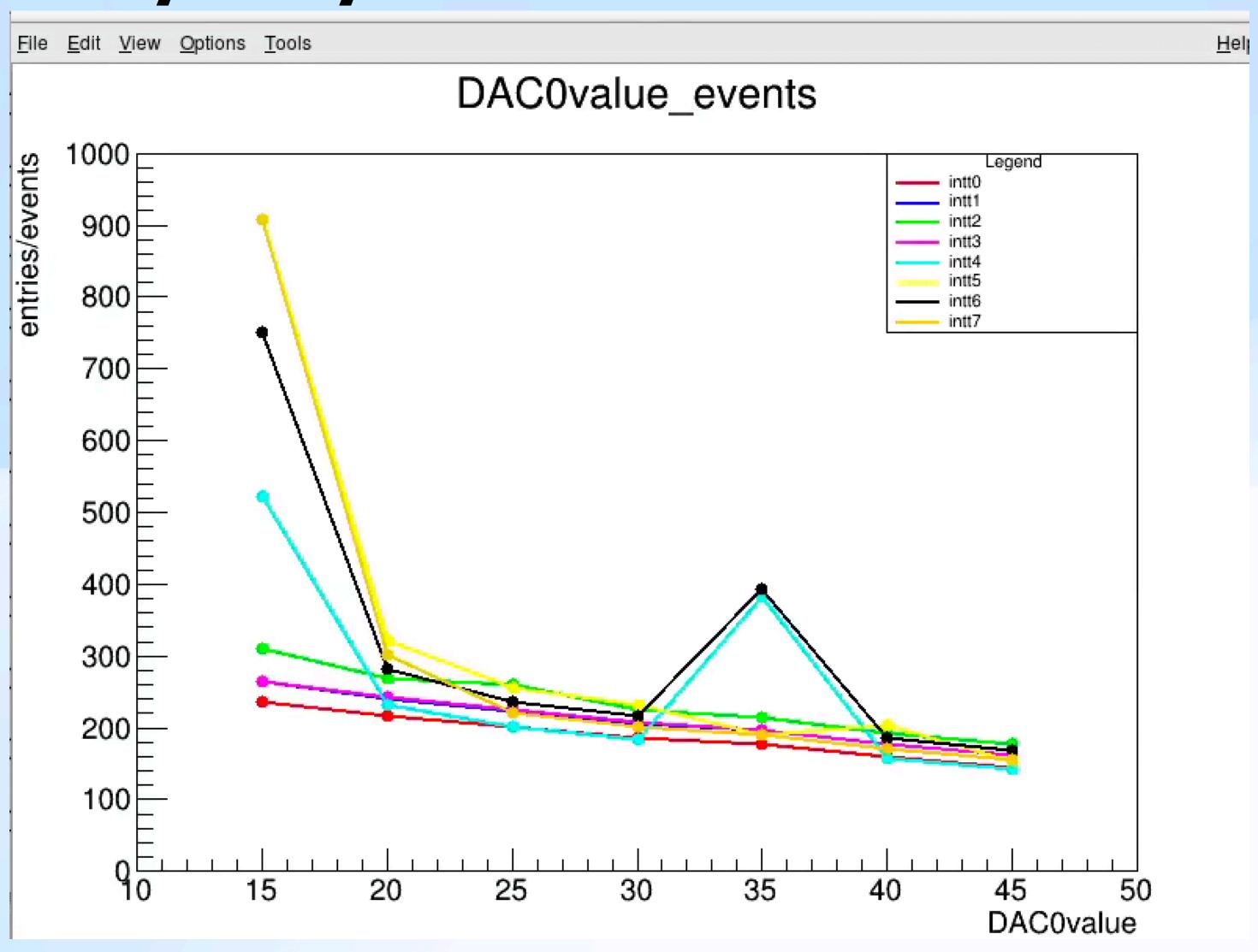


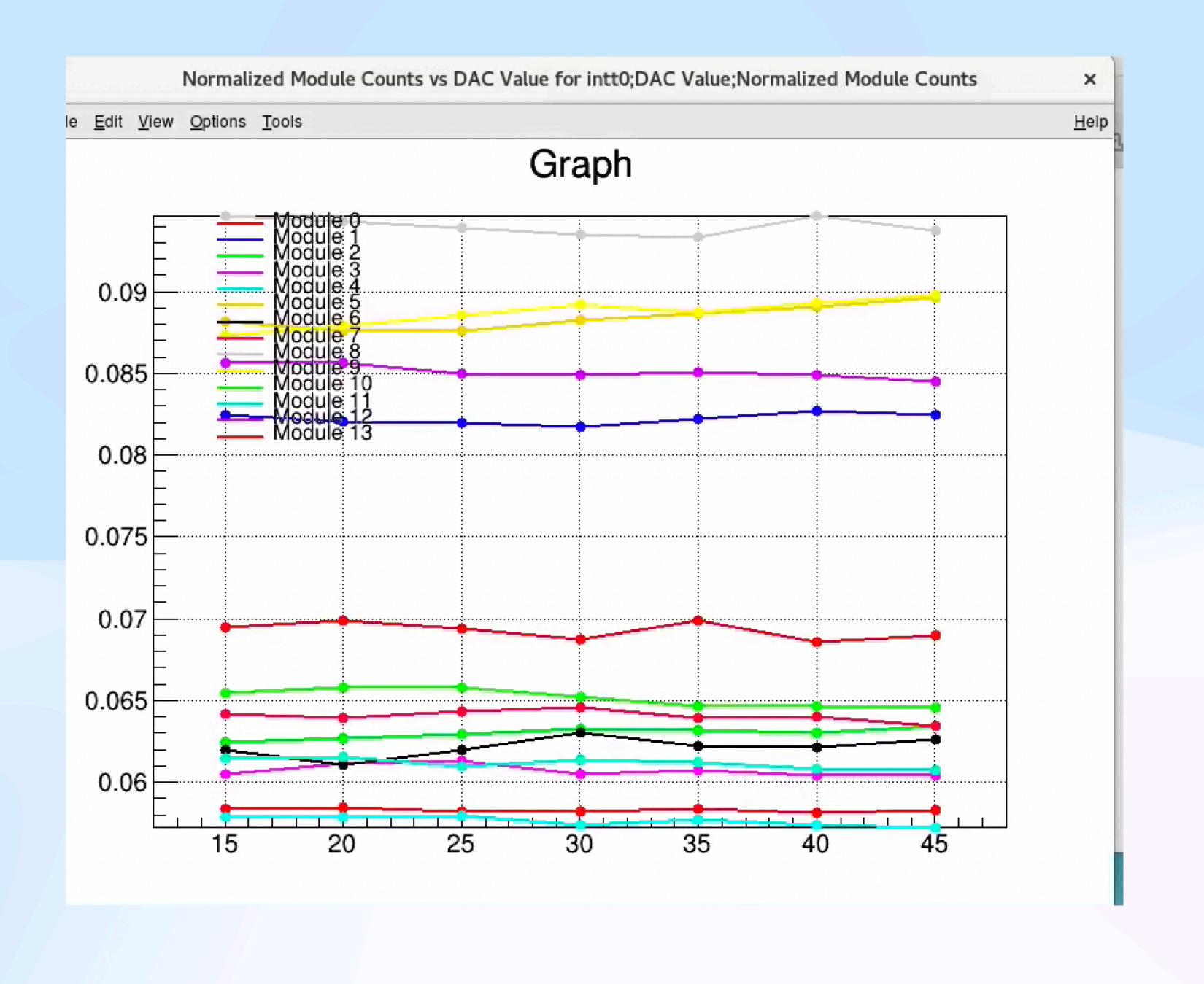
Next steps

I will make the graph without hot cannel with Fun4All.

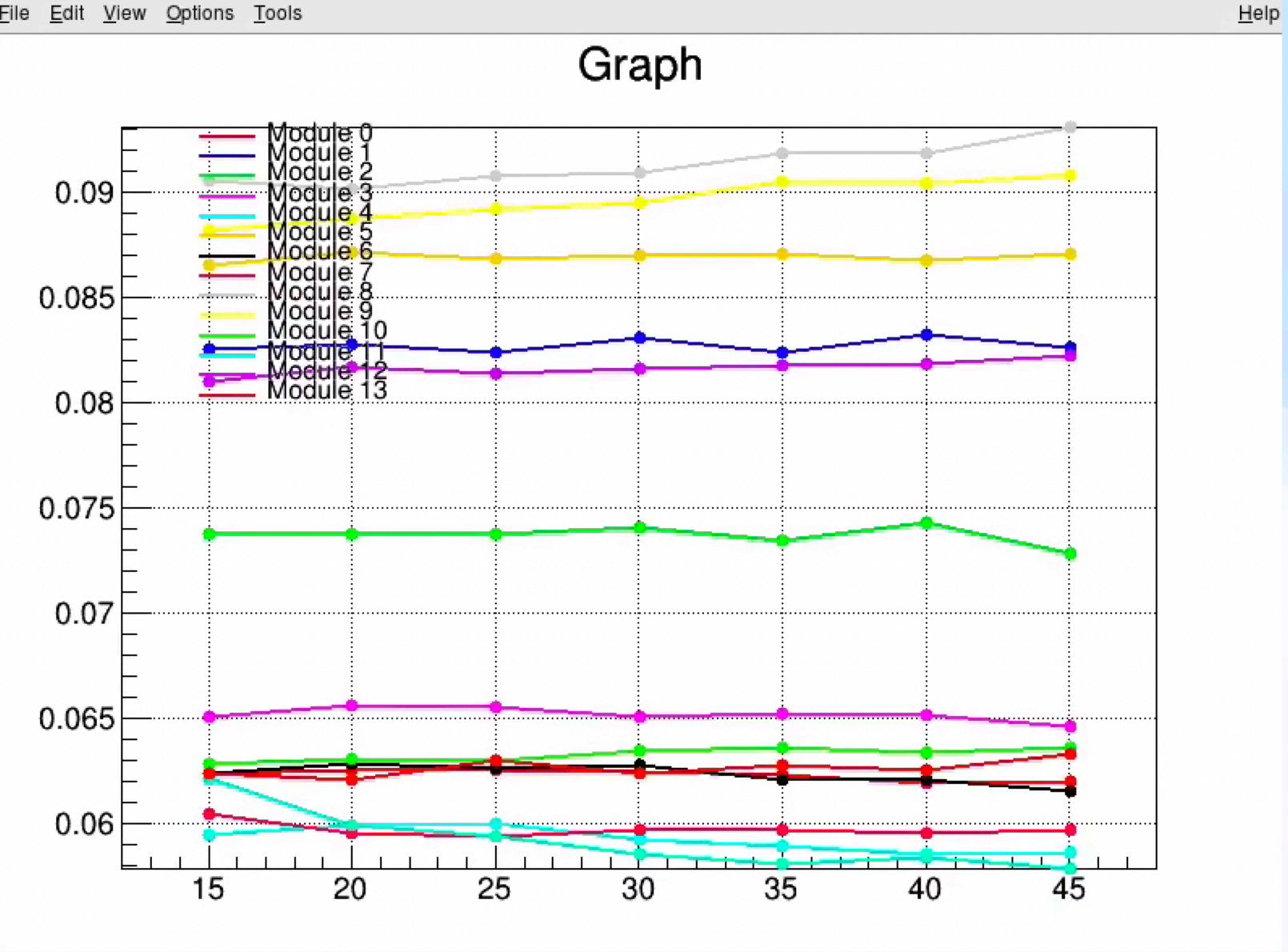


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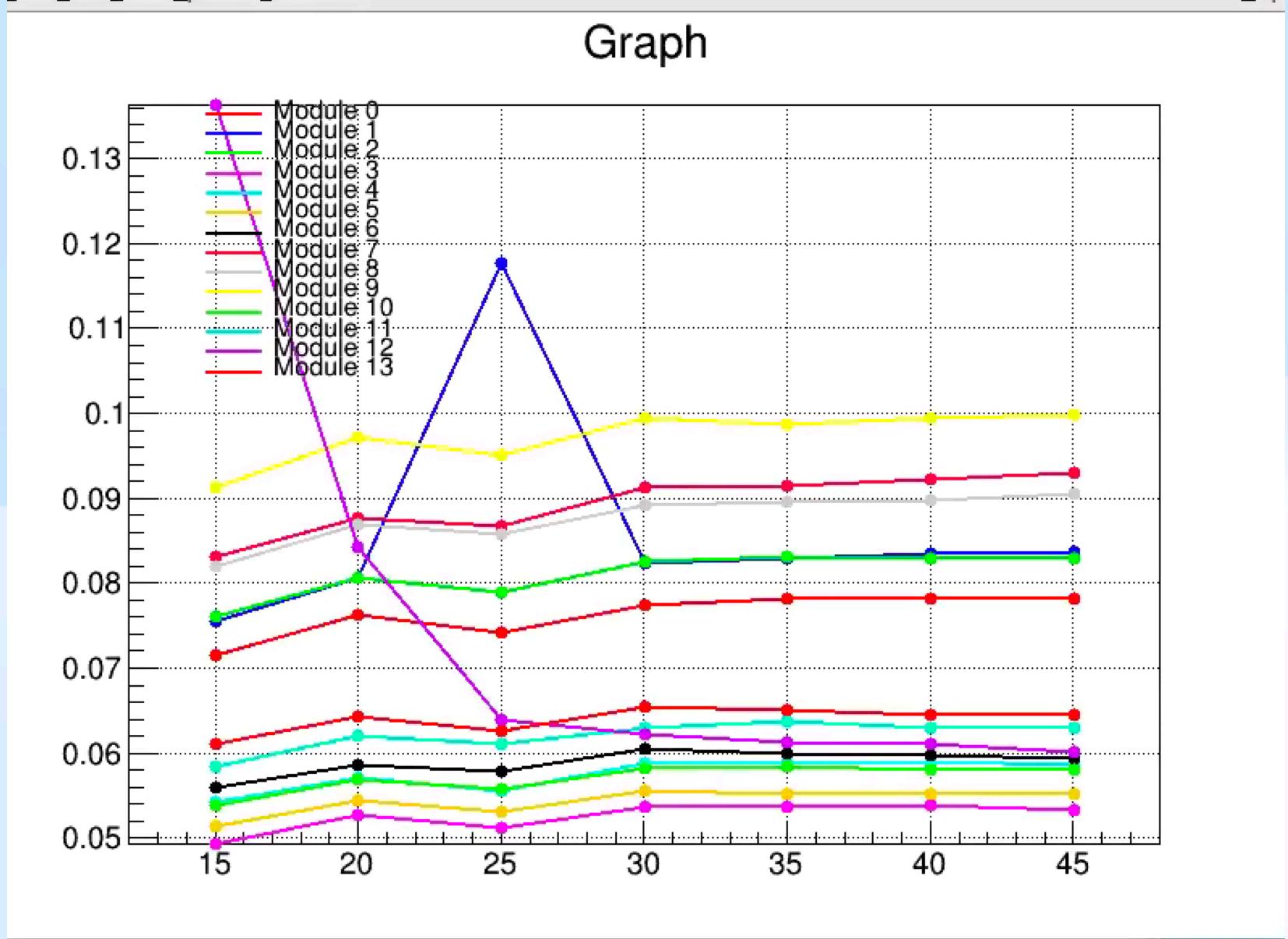


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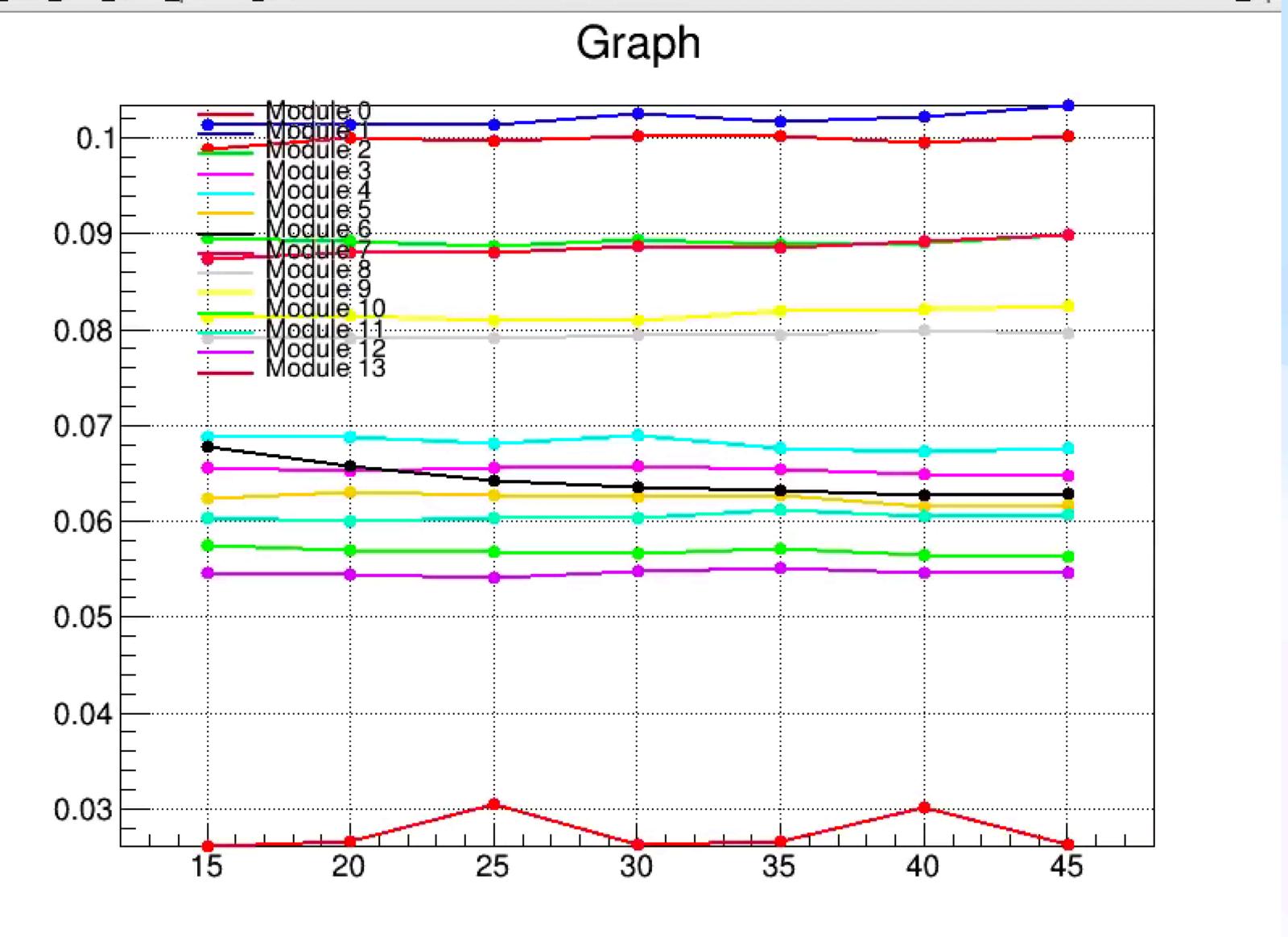
<u>F</u>ile <u>E</u>dit <u>V</u>iew <u>O</u>ptions <u>T</u>ools <u>H</u>elp



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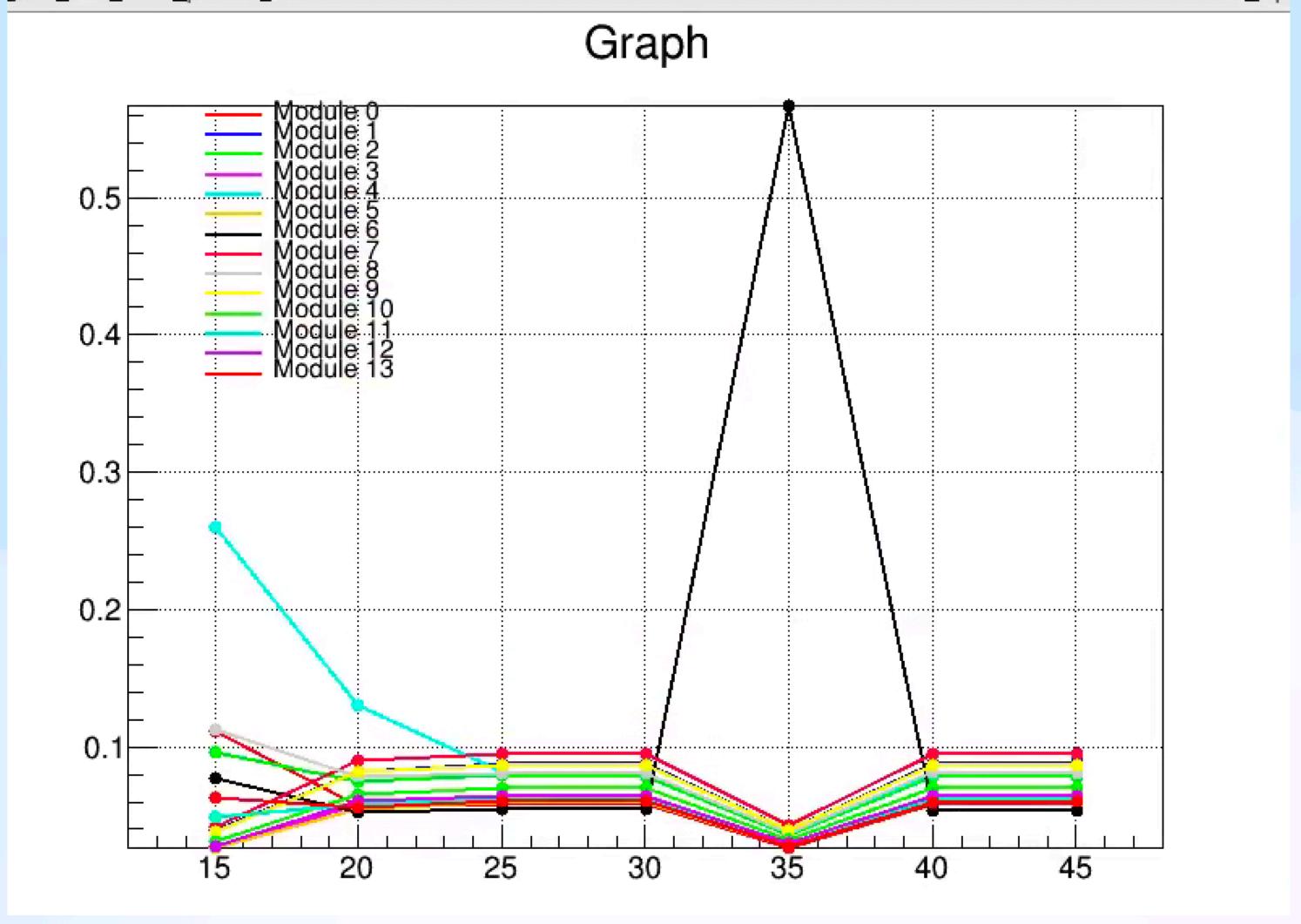
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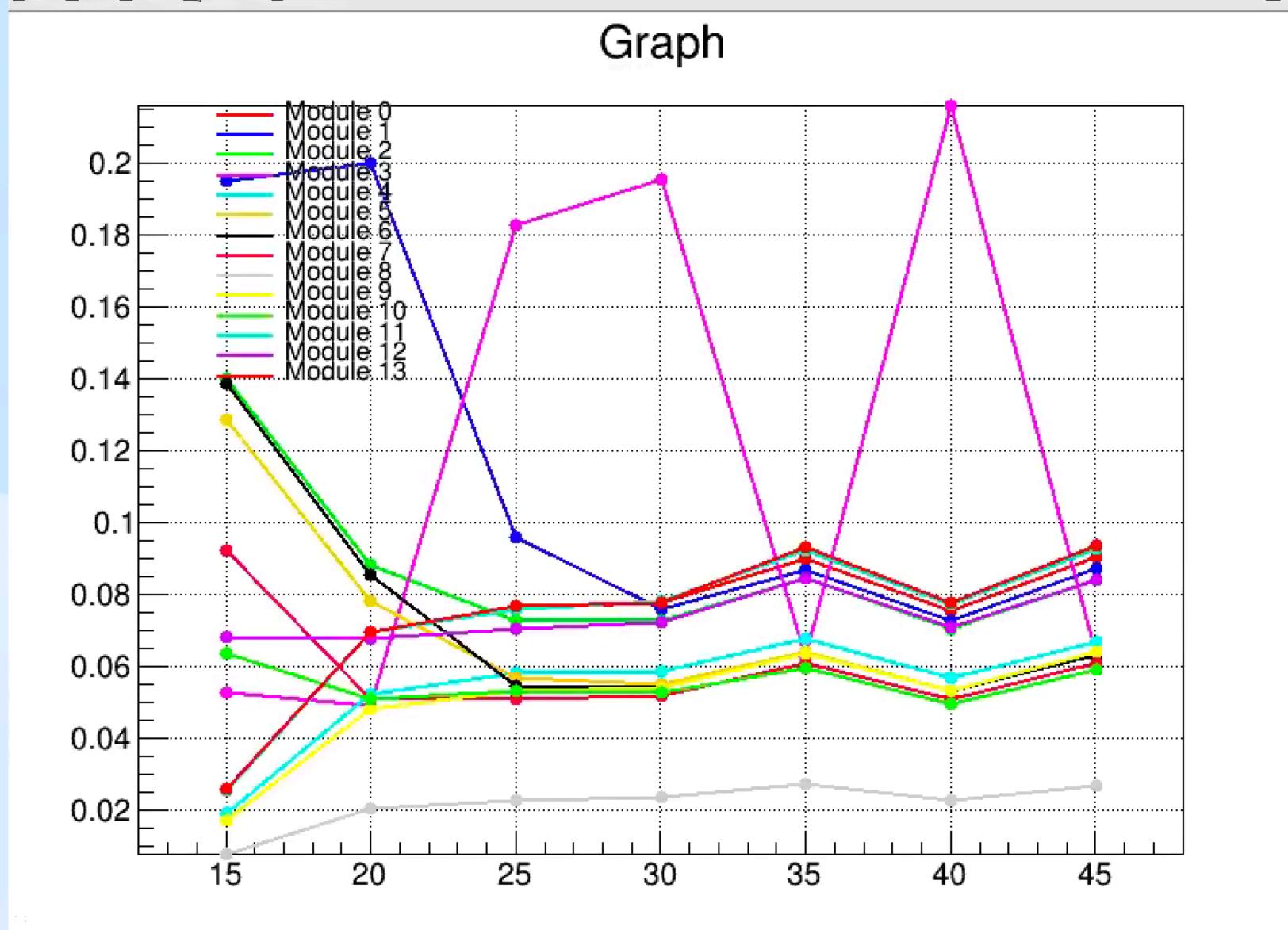
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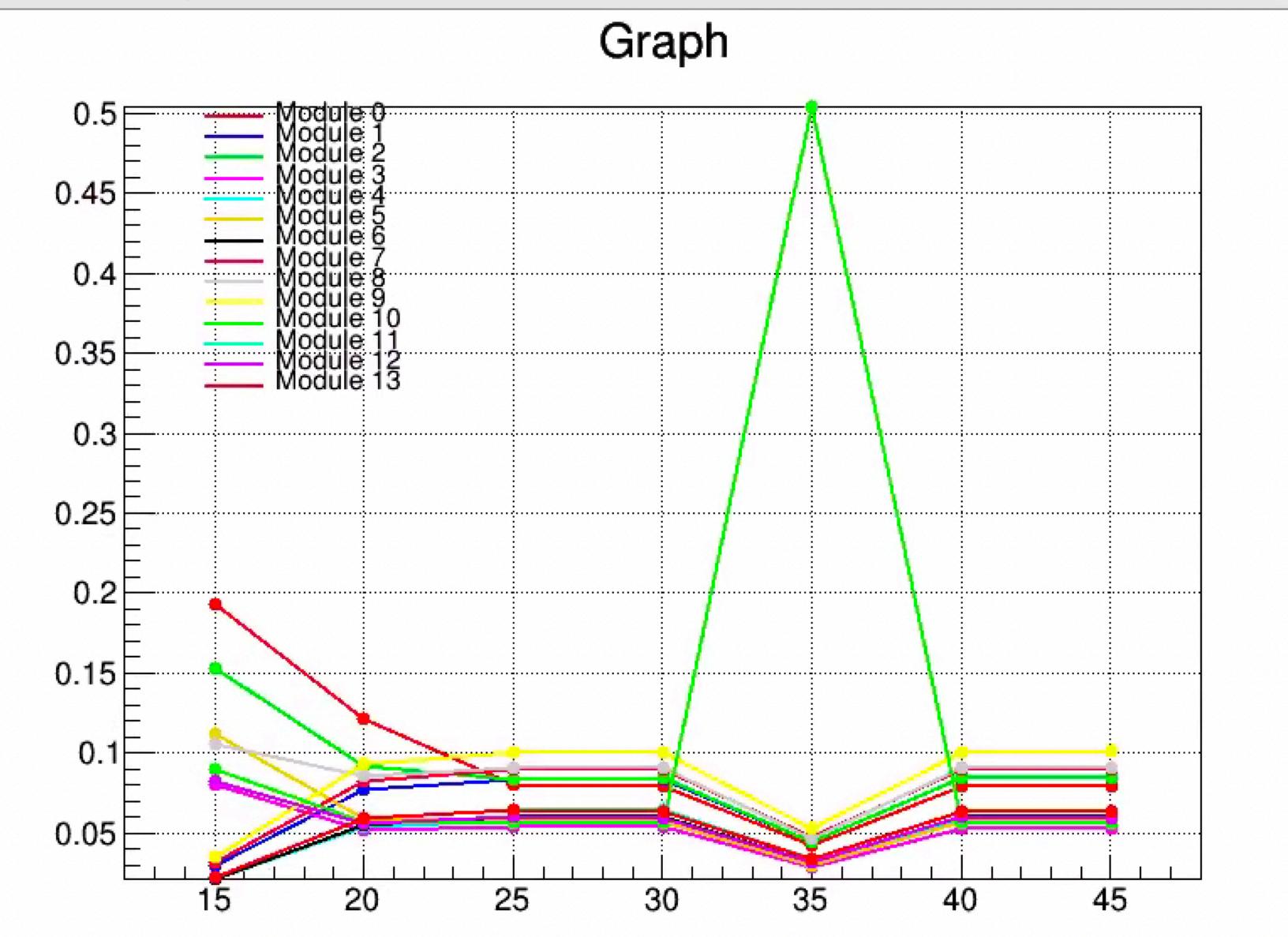
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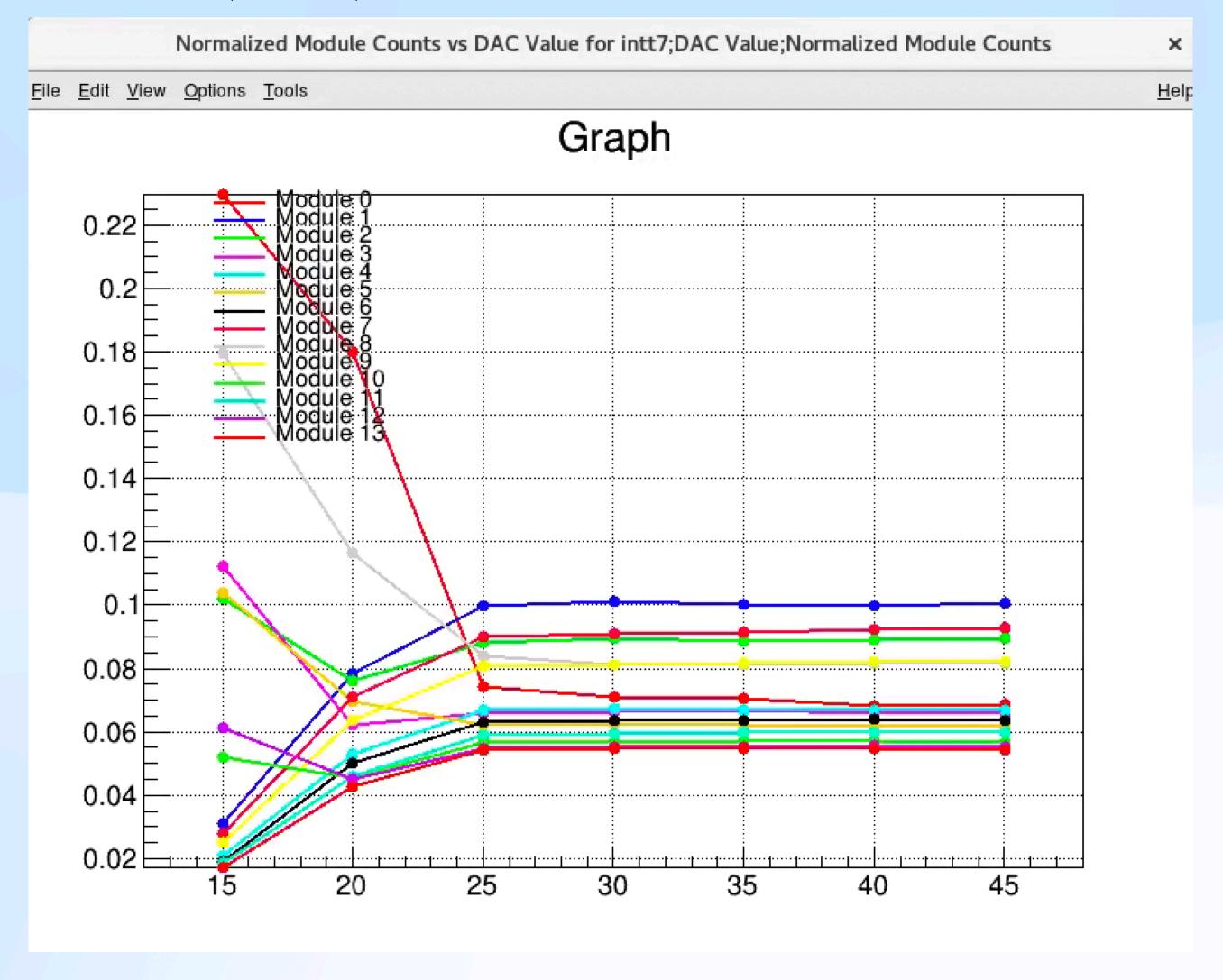


<u>F</u>ile <u>E</u>dit <u>V</u>iew <u>O</u>ptions <u>T</u>ools <u>H</u>elp

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11月28日(木)~



Normalized Module Counts for intt7: Module 0: 0.229707 0.180069 0.0744485 0.0708609 0.0704541 0.0682178 0.0688804 Module 1: 0.0309224 0.0784678 0.0998156 0.101008 0.10012 0.0999755 0.100472 Module 2: 0.101867 0.0761186 0.0882103 0.0893592 0.0887545 0.0891987 0.0897318 Module 3: 0.112334 0.0621825 0.0659451 0.0665279 0.0665898 0.0660559 0.0659833 Module 4: 0.0209798 0.052947 0.0669244 0.0674946 0.0666153 0.0667222 0.06693 Module 5: 0.103843 0.0697679 0.0621616 0.0624375 0.062317 0.0616978 0.0616484 Module 6: 0.0192728 0.050058 0.0632411 0.0636766 0.0635266 0.0638117 0.0635808 Module 7: 0.0279004 0.0709138 0.0902336 0.0908977 0.0913162 0.0924587 0.0930103 Module 8: 0.179418 0.116667 0.0838183 0.0810049 0.0813028 0.0817754 0.0817413 Module 9: 0.0250694 0.063521 0.0806052 0.0809814 0.0818221 0.0822715 0.0821067 Module 10: 0.0520885 0.0454779 0.0564693 0.0563967 0.0569202 0.0572277 0.0567866 Module 11: 0.0183918 0.045983 0.0591405 0.0594153 0.0600709 0.060046 0.0596708 Module 12: 0.0611076 0.0450993 0.0547634 0.0553577 0.0554301 0.0556825 0.0552083 Module 13: 0.0170974 0.0427273 0.0542231 0.0545815 0.0547607 0.0548586 0.054249

Calculate

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Normalized Module Counts for Intt7:

Module 0: 0.229707 0.180069 0.0744485 0.0708609 0.0704541 0.0682178 0.0688804

Module 1: 0.0309224 0.0784678 0.0998156 0.101008 0.10012 0.0999755 0.100472

Module 2: 0.101867 0.0761186 0.0882103 0.0893592 0.0887545 0.0891987 0.0897318

Module 3: 0.112334 0.0621825 0.0659451 0.0665279 0.0665898 0.0660559 0.0659833

Module 4: 0.0209798 0.052947 0.0669244 0.0674946 0.0666153 0.0667222 0.06693

Module 5: 0.103843 0.0697679 0.0621616 0.0624375 0.062317 0.0616978 0.0616484

Module 6: 0.0192728 0.050058 0.0632411 0.0636766 0.0635266 0.0638117 0.0635808

Module 7: 0.0279004 0.0709138 0.0902336 0.0908977 0.0913162 0.0924587 0.0930103

Module 8: 0.179418 0.116667 0.0838183 0.0810049 0.0813028 0.0817754 0.0817413

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Module 13: 0.0170974 0.0427273 0.0542231 0.0545815 0.0547607 0.0548586 0.054249
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Cout

