

Time in data

2023/06/20

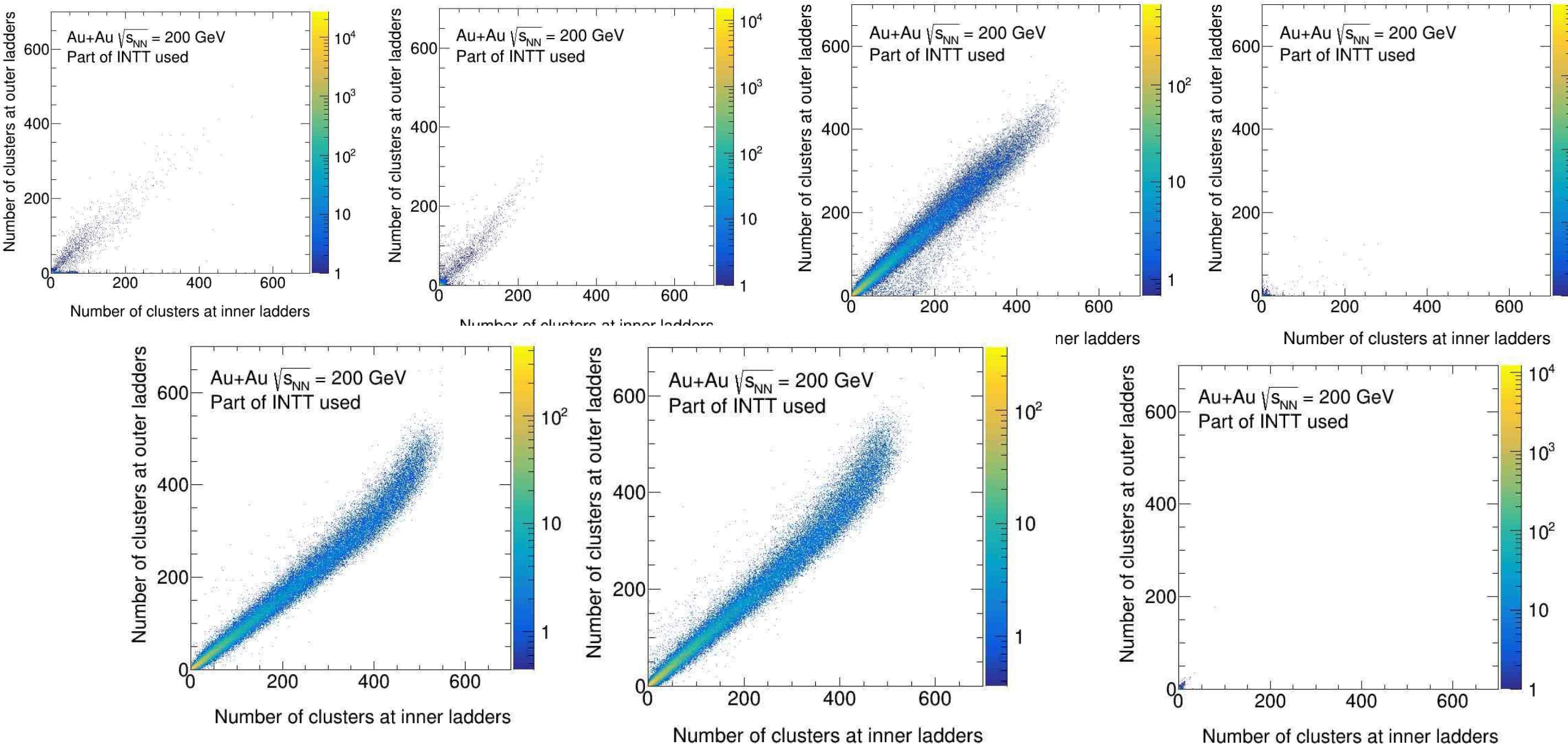
INTTJPMT

加納麻衣

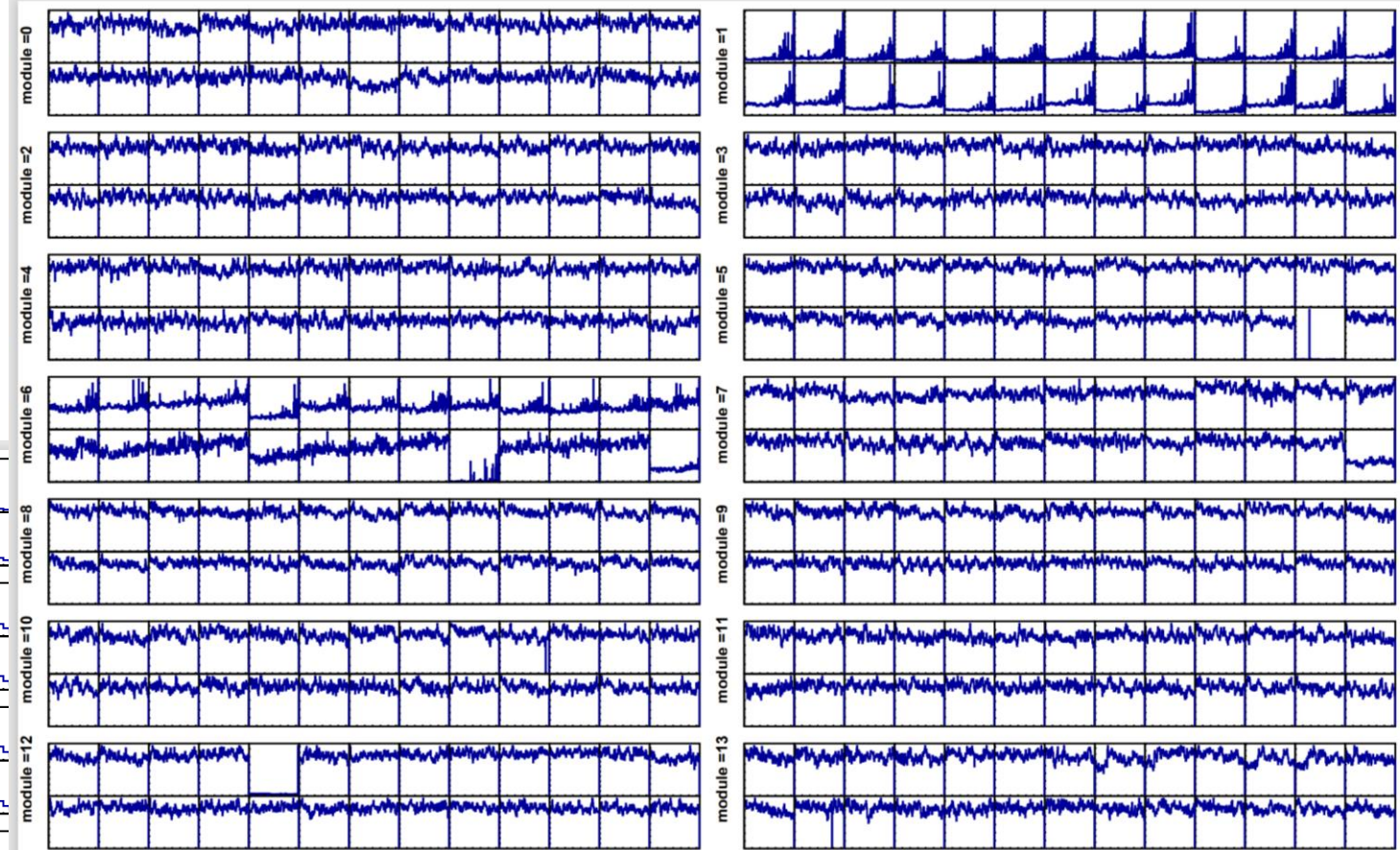
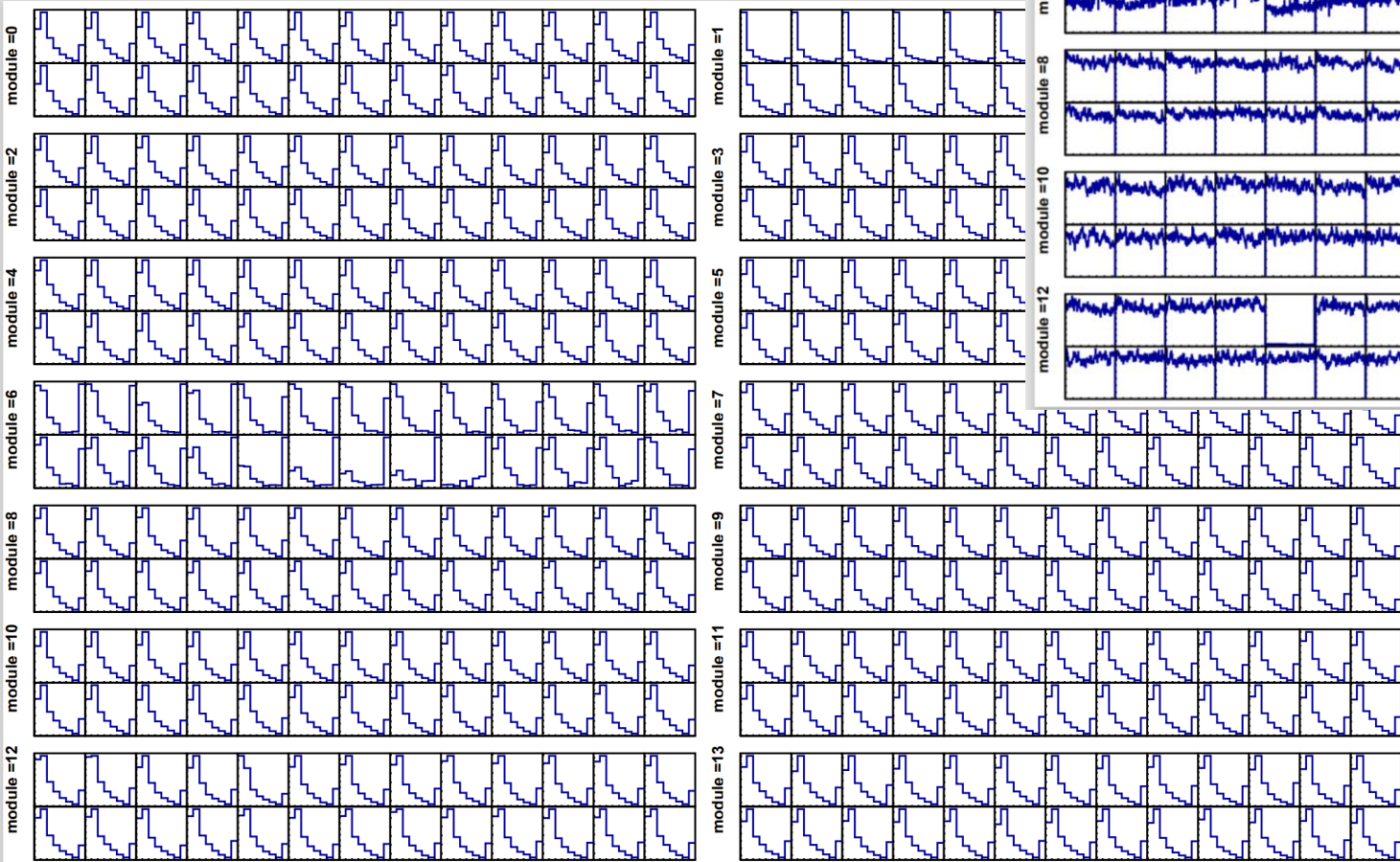
状況

- デコーダーが新しくなった為、ADC分布やentry vs chan の分布の様子が変わった。
- 解析の為 Time inをしているFelixが多いRunがどれか探すため分布の確認と、inner vs outer barrelのプロットを作って確認作業を行った。
- 確認したのはRun # 13181~13654 n_collision=6
Modebits=74

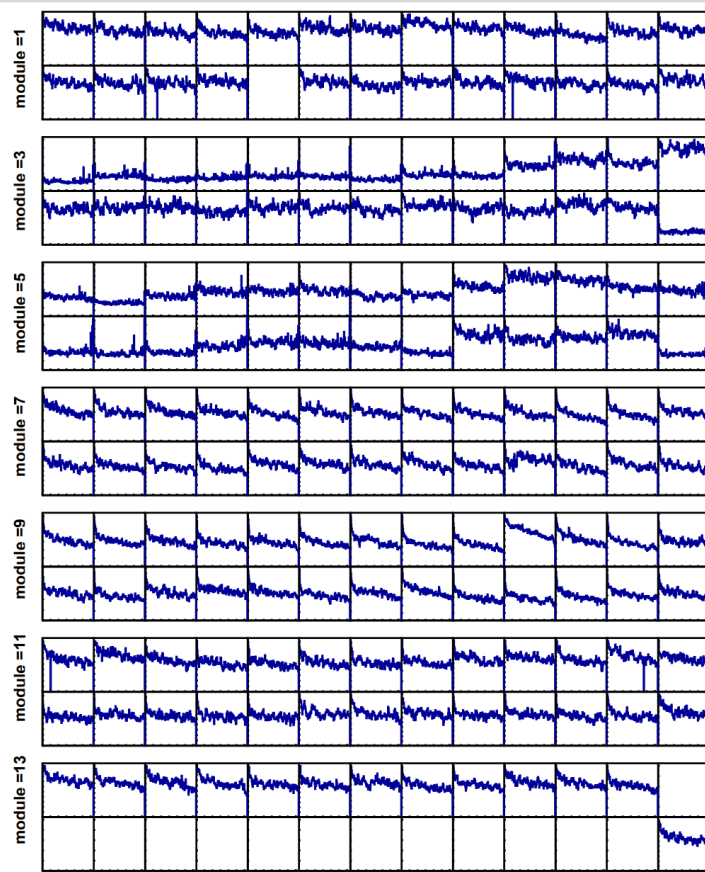
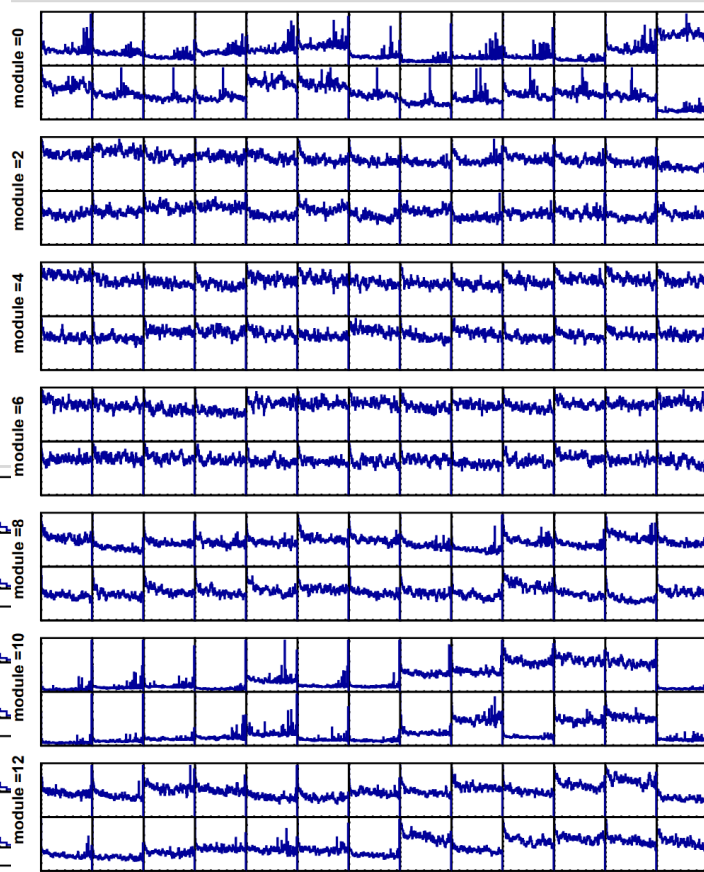
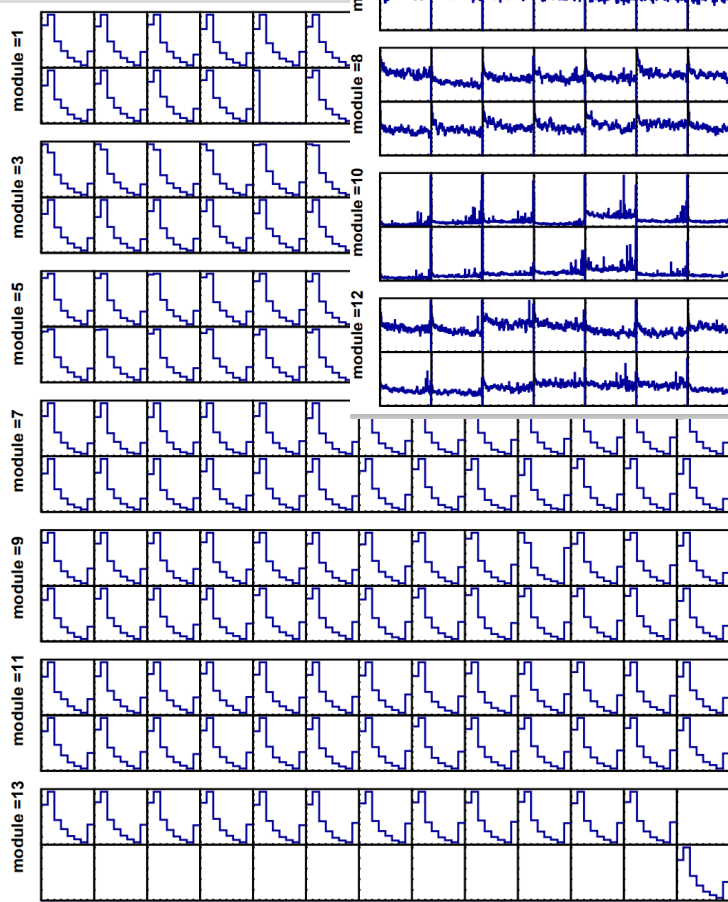
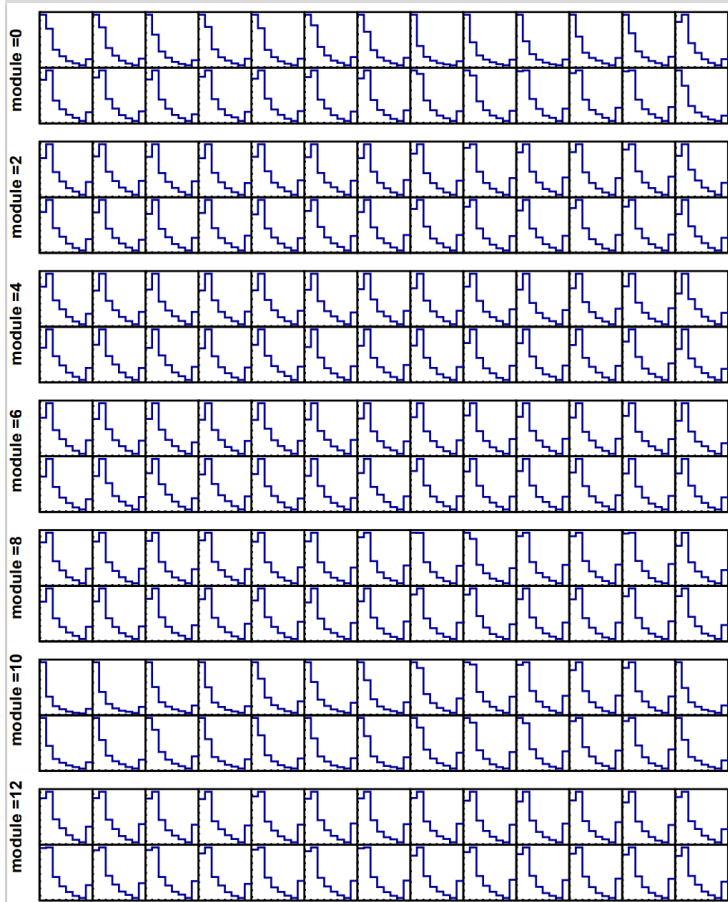
Run#13183 $n_{\text{collision}}=6$ Modebits=74



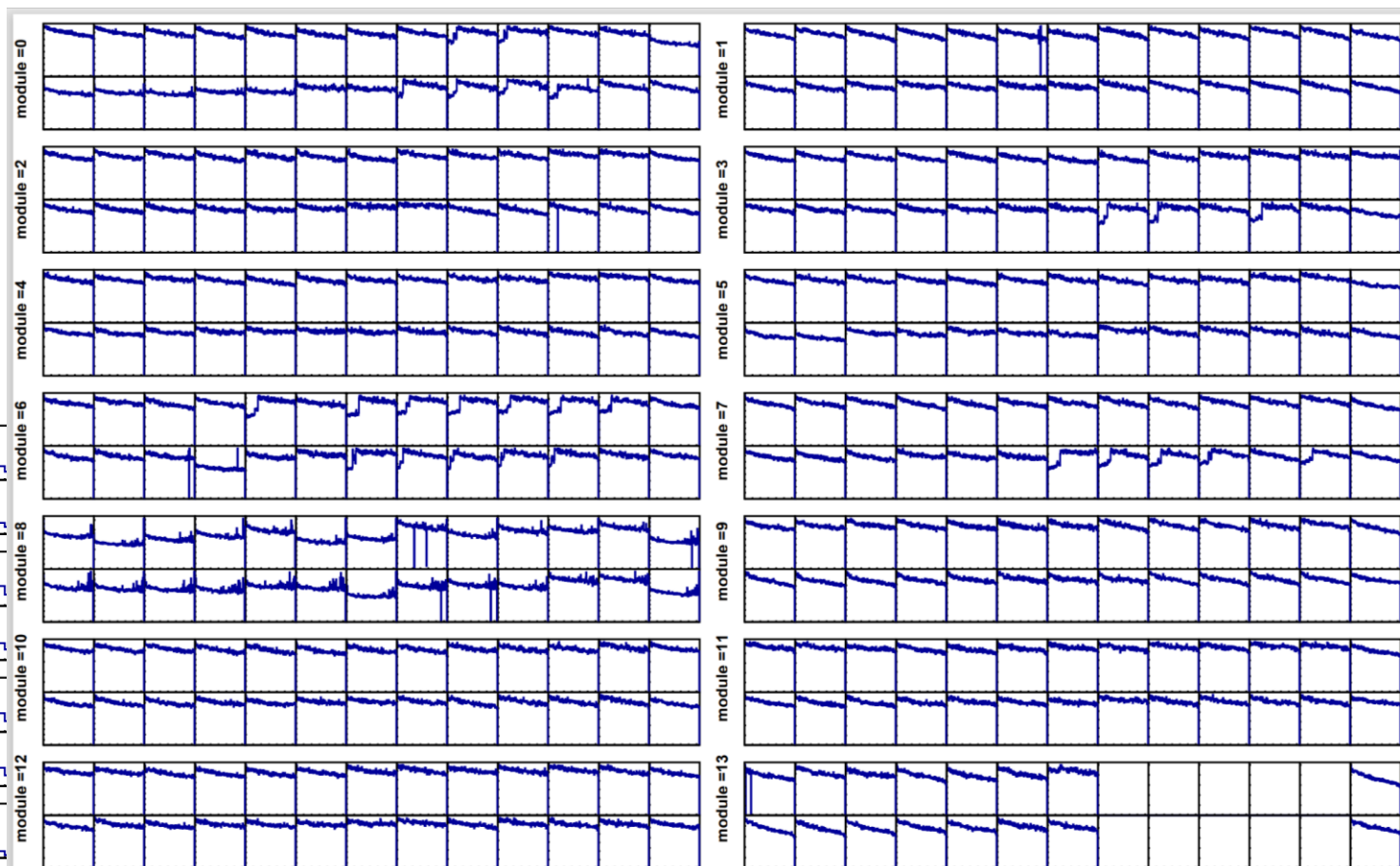
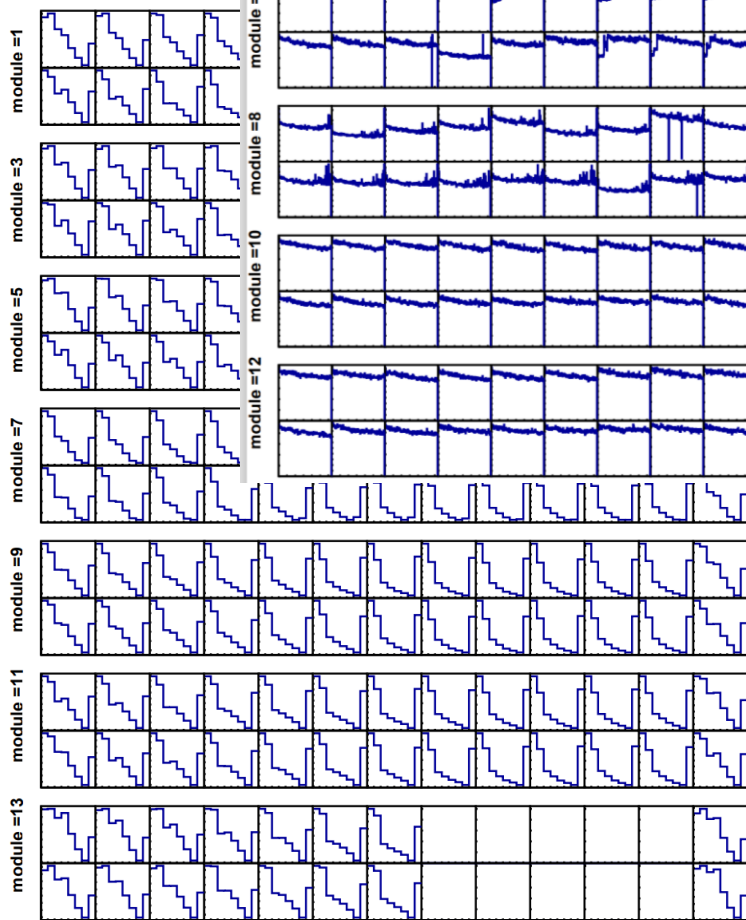
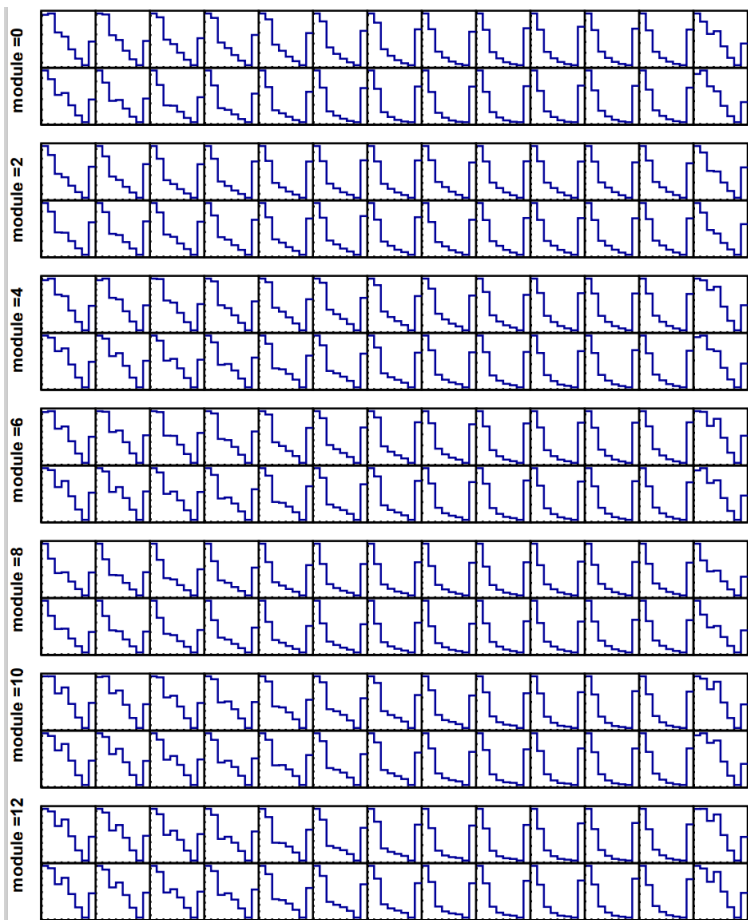
intt0



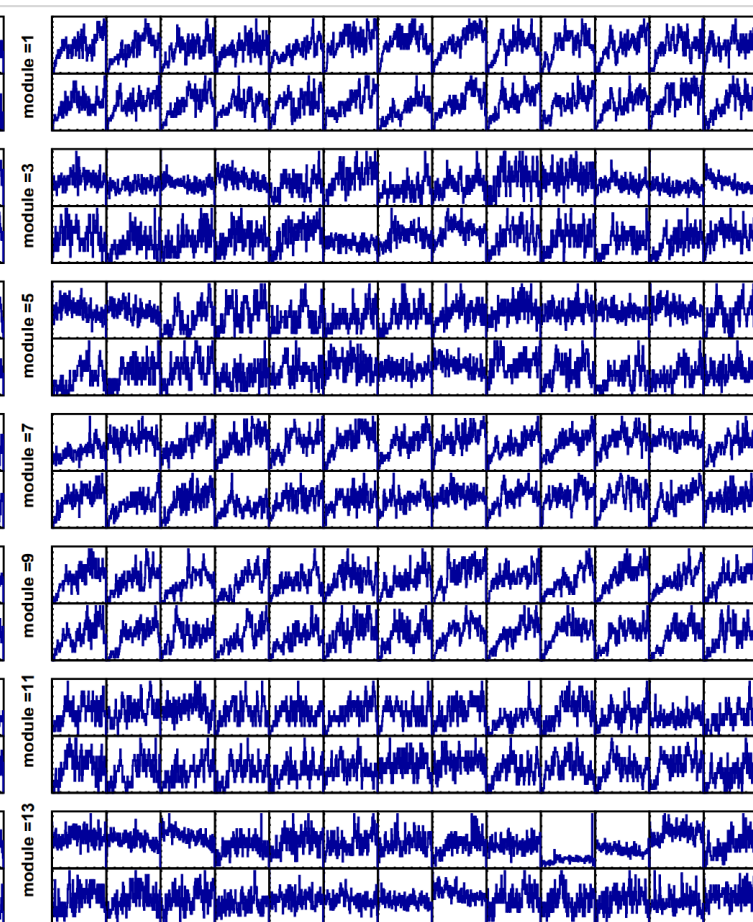
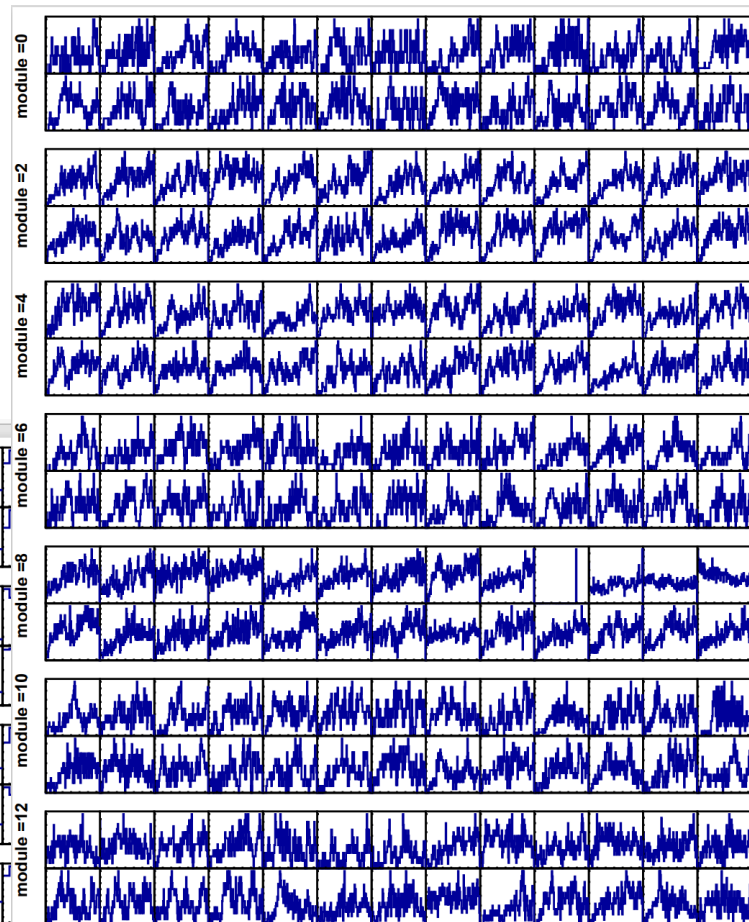
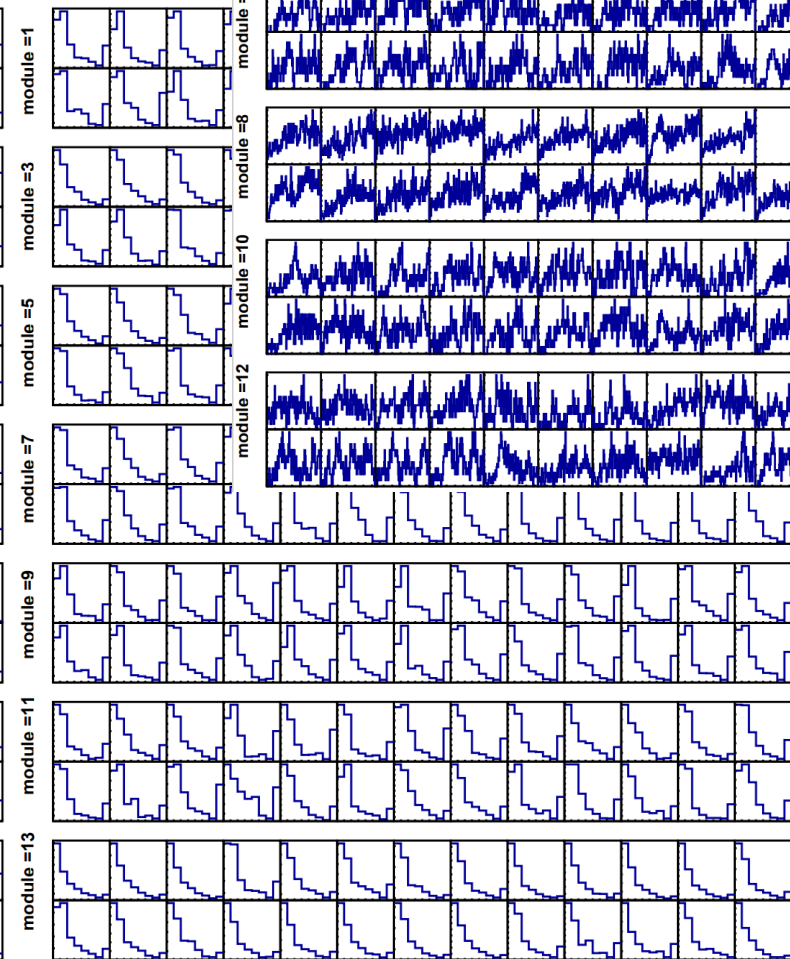
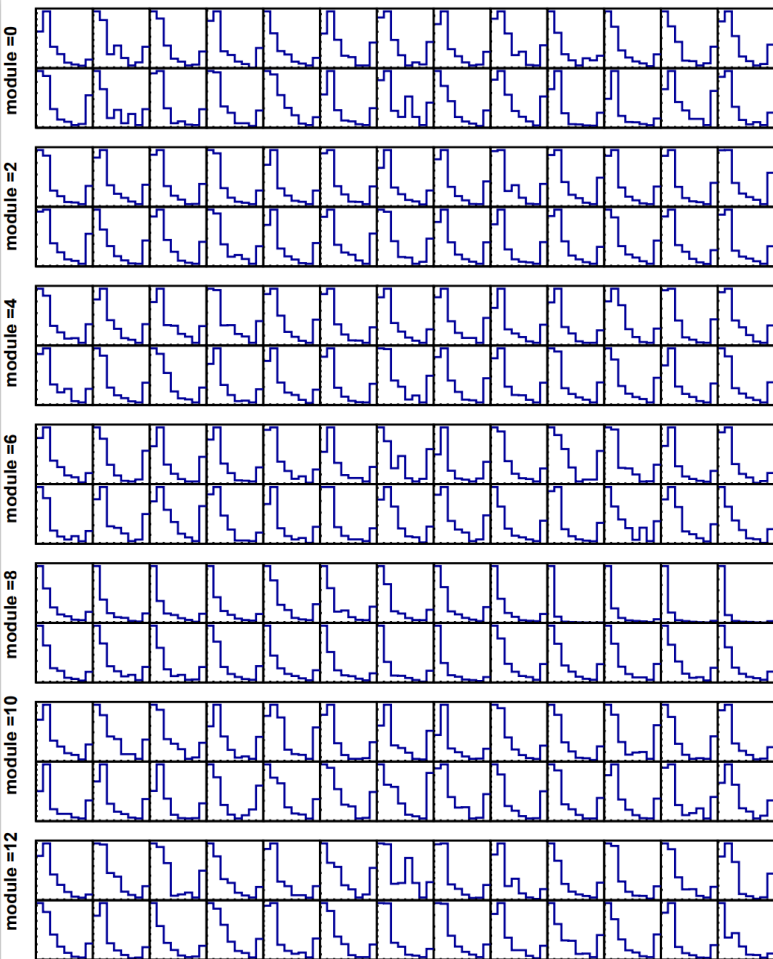
intt2



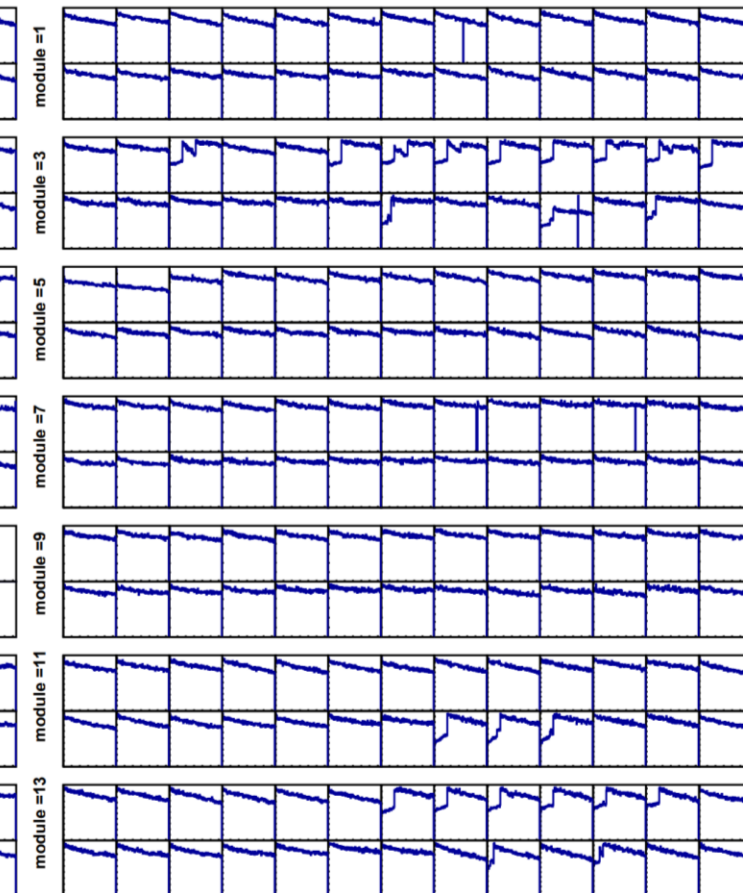
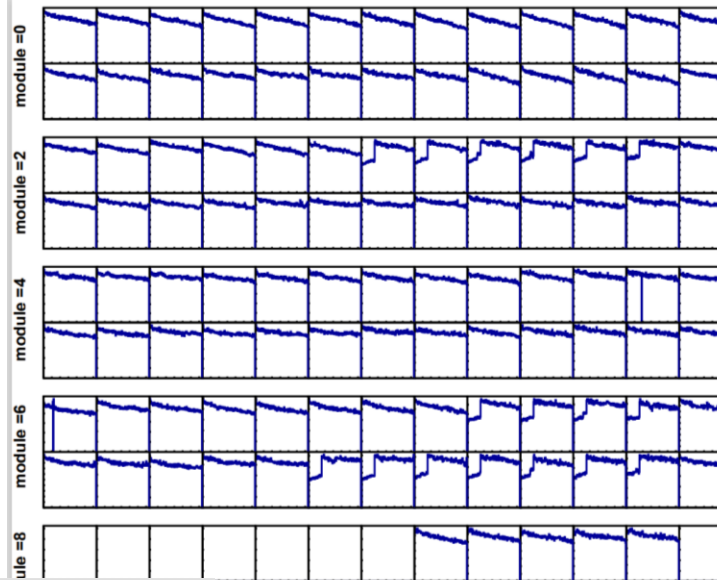
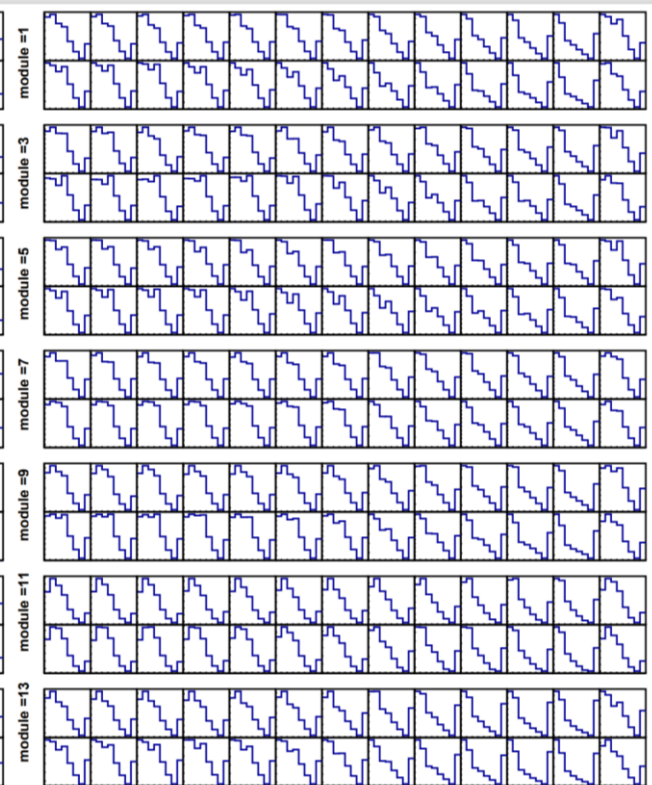
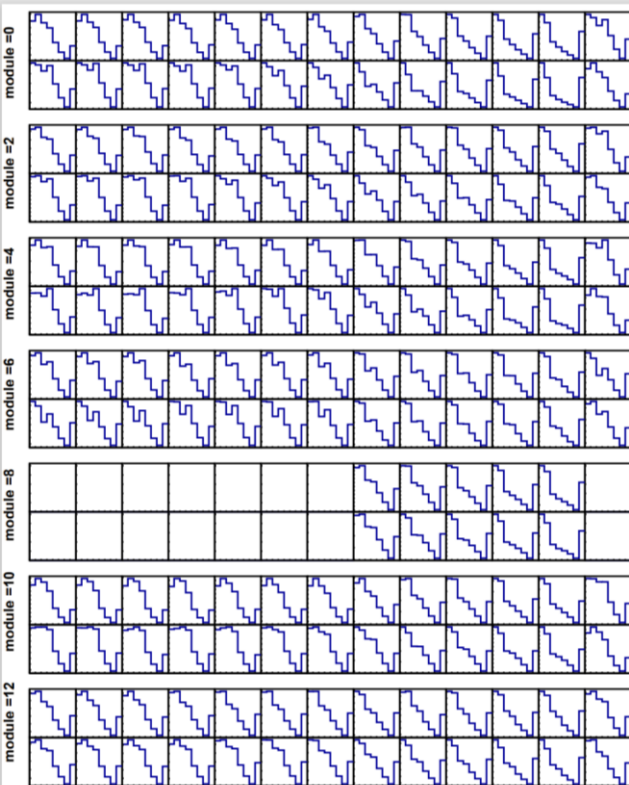
Intt3 Time in



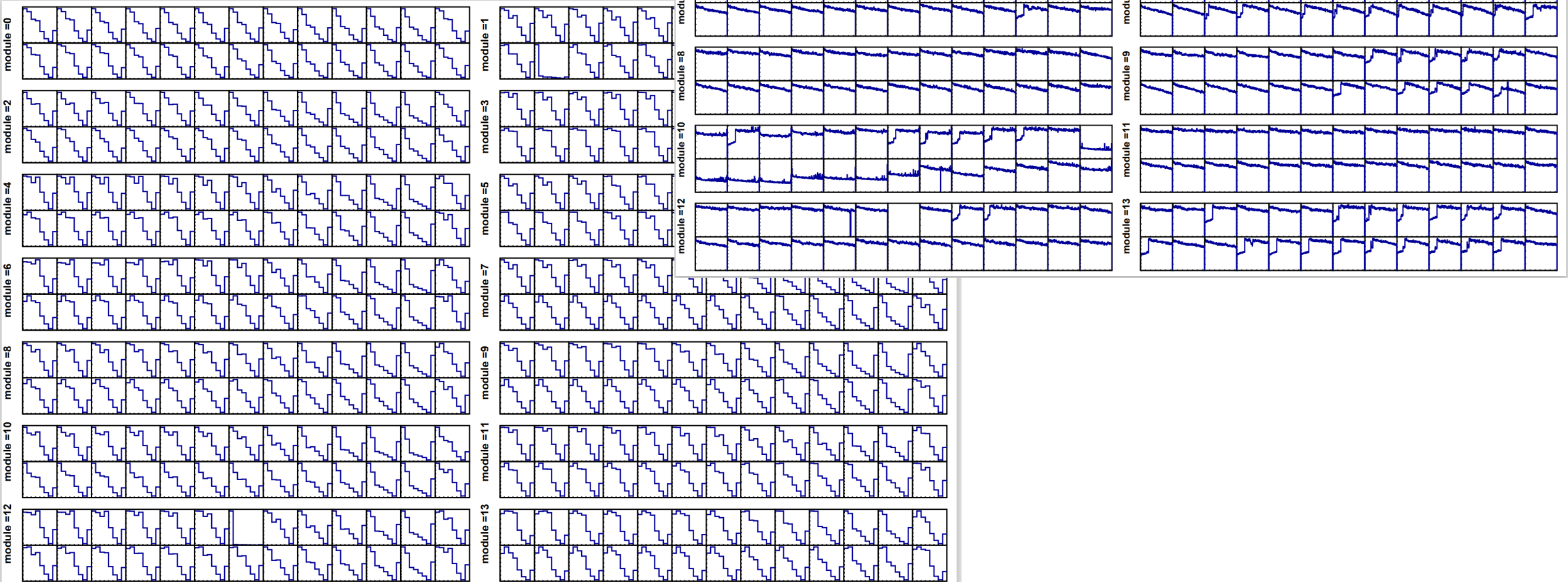
intt4



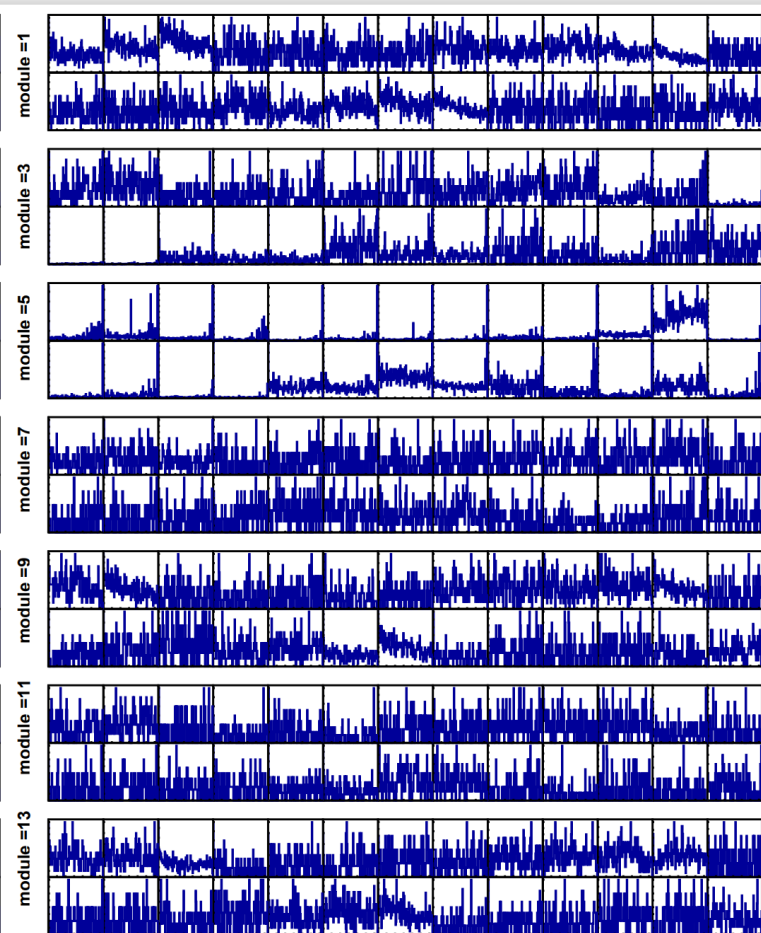
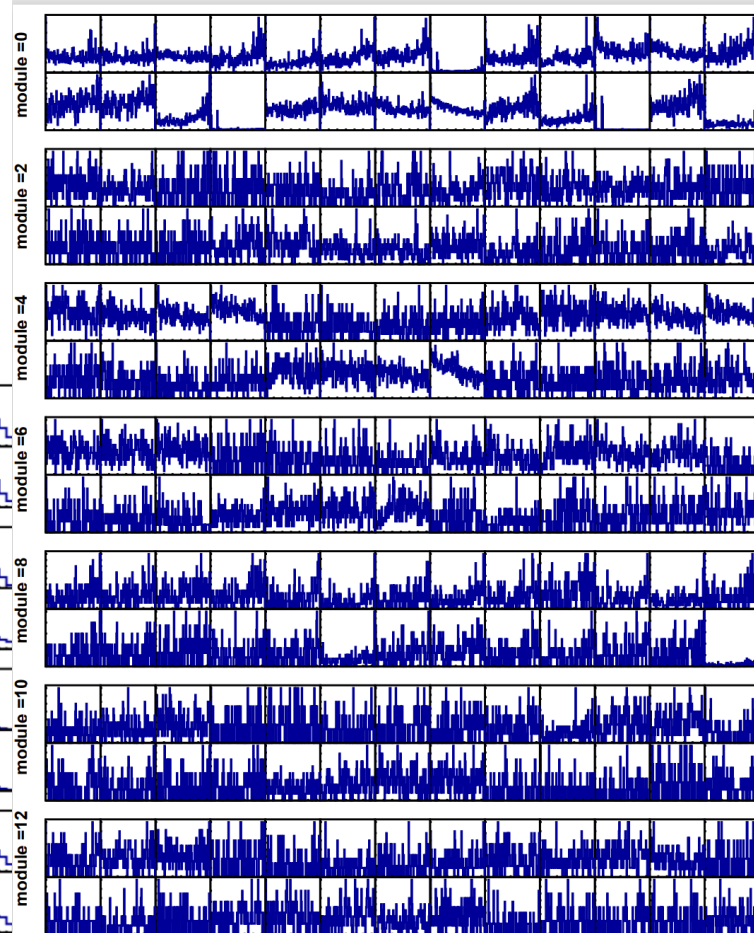
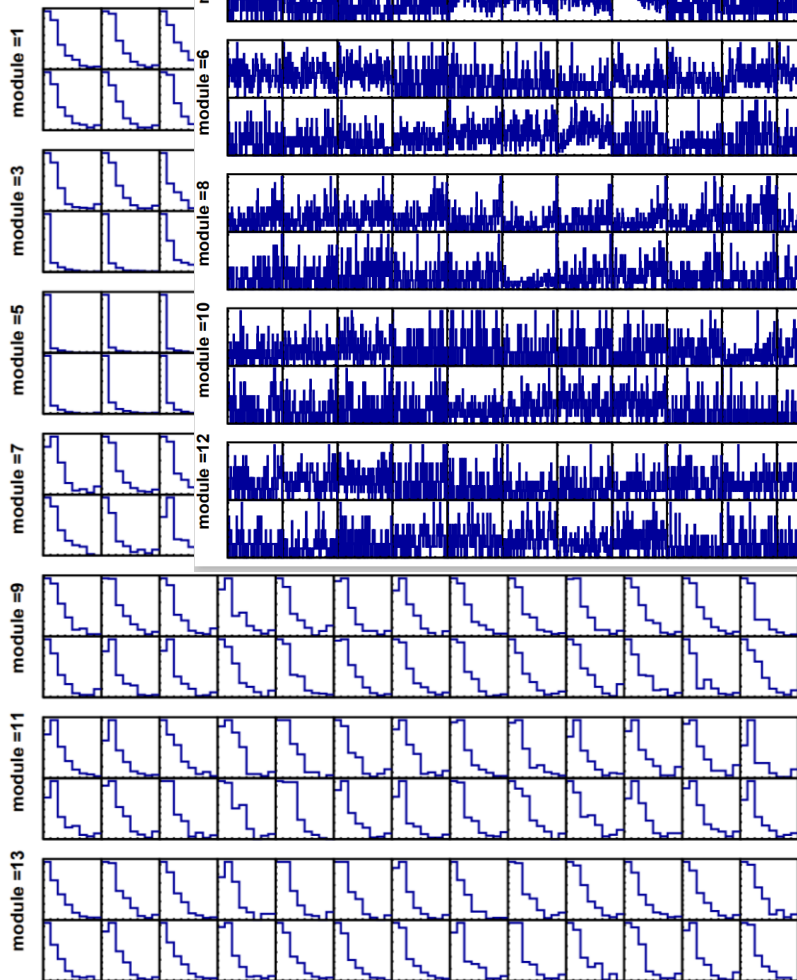
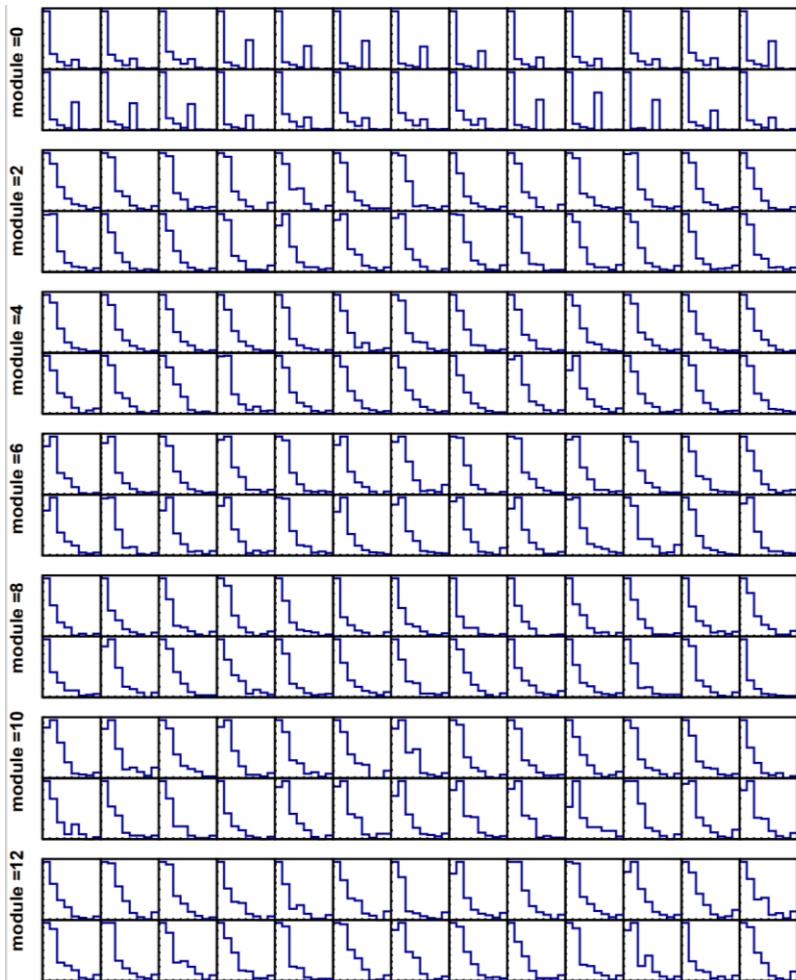
intt5 Time in



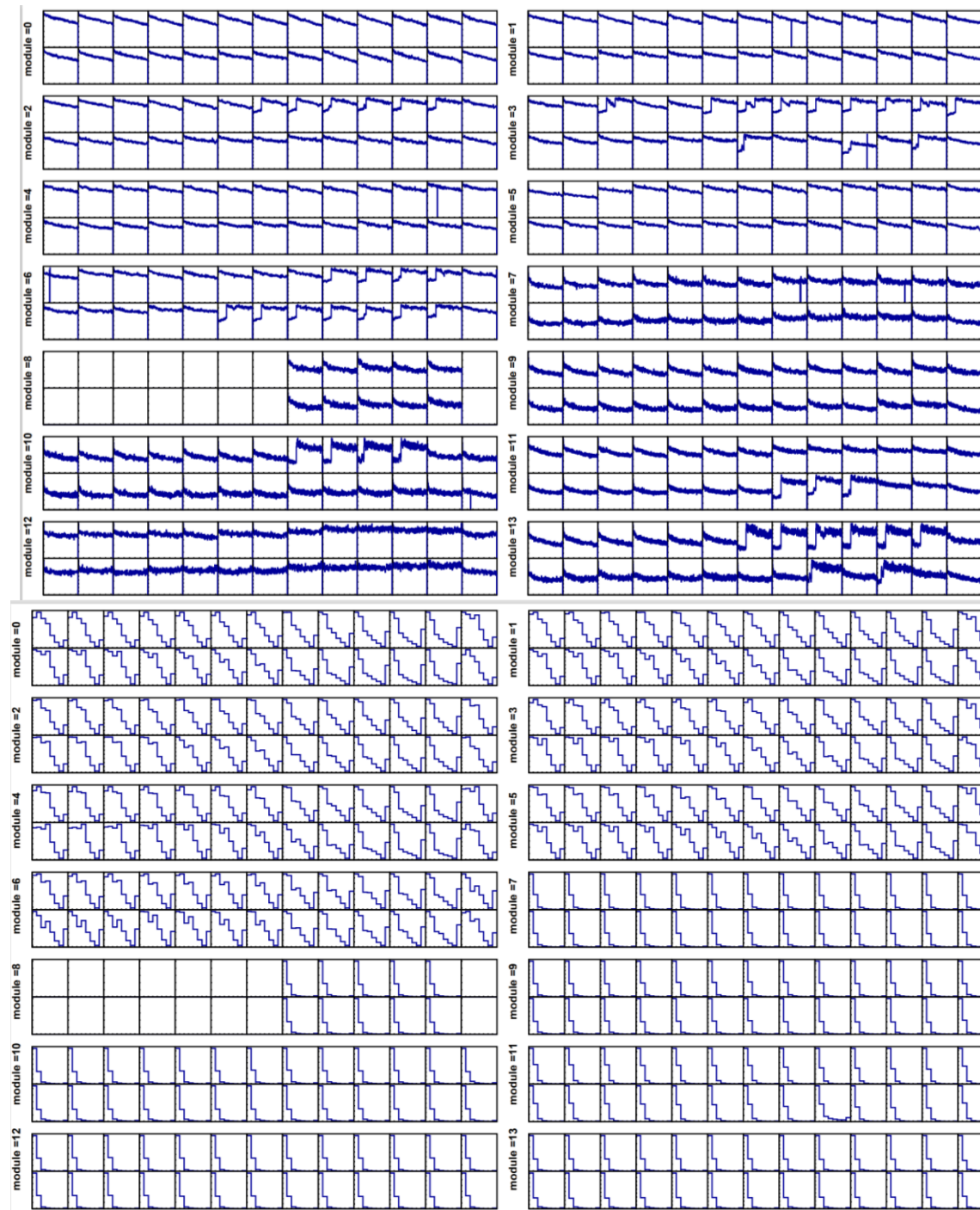
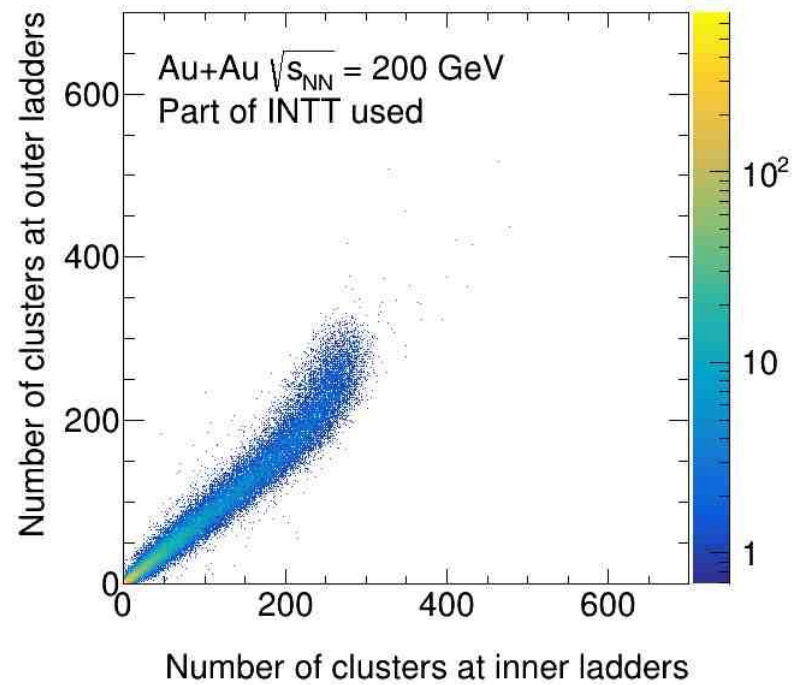
Intt6 Time in



intt7



Run # 13183 intt5
半分Time in



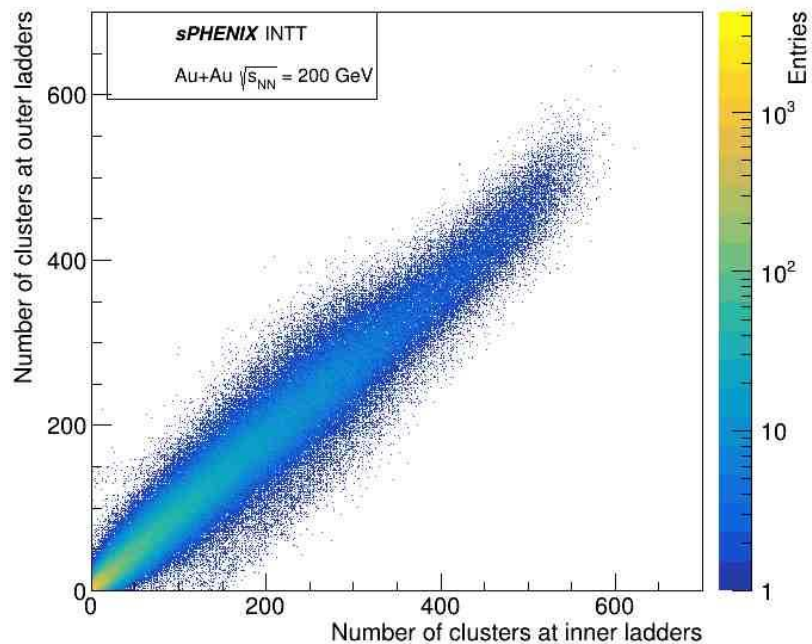
結果

- 分布をみたRun($n_{\text{collision}}=6$, Modebits=74) のなかでは intt3,5,6 (まれにintt4とintt5の半分) のみTime inしていることが確認できた。
- またTime inしたときのADC分布とストリップ分布の形が分かった。→Timing scanの時に判断するのに用いた。

Back up

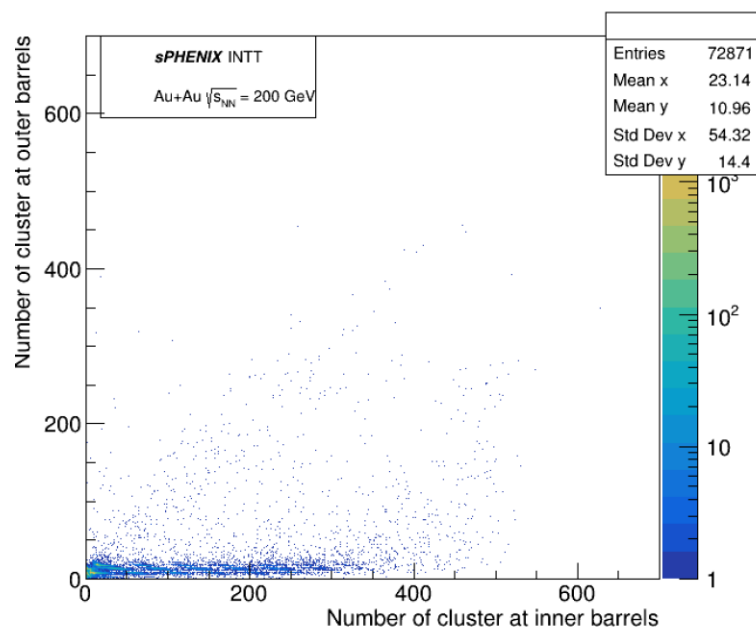
Run#9328 with $n_{\text{collision}}=4, \text{modebits}=78$ (Time in)

Intt7

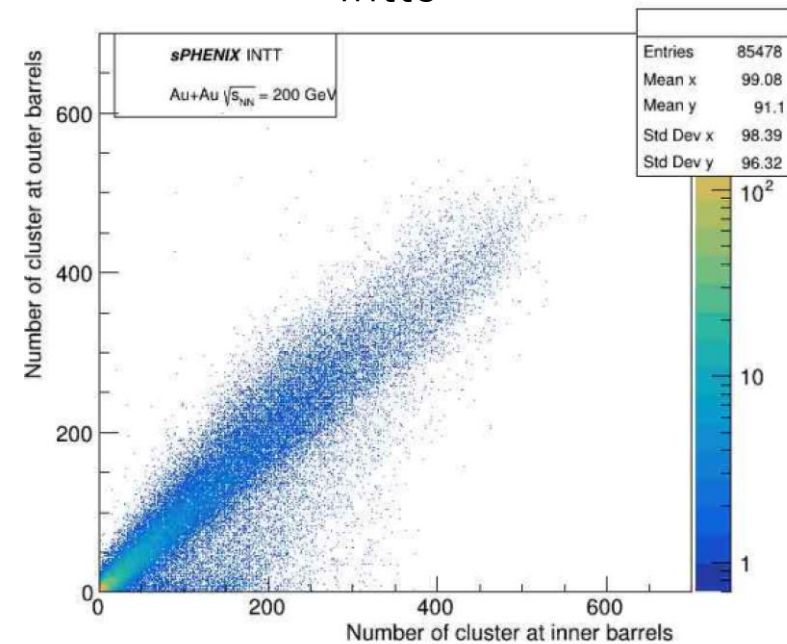


100% of Entris

Intt0

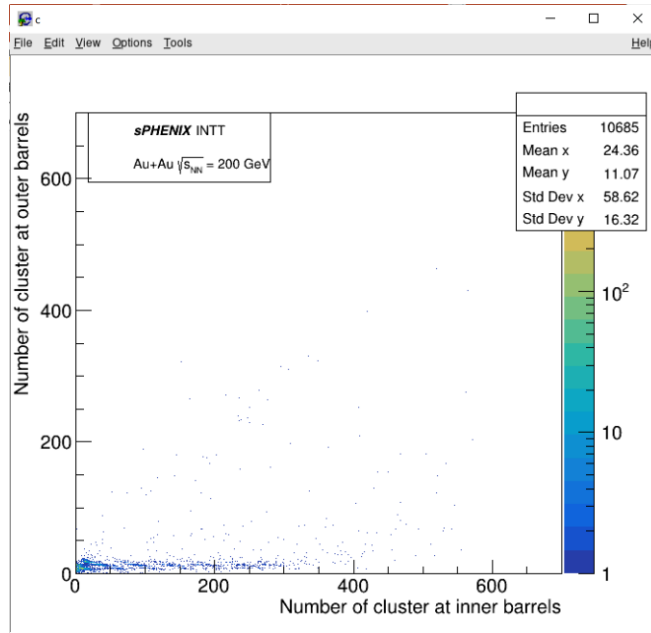


Intt3

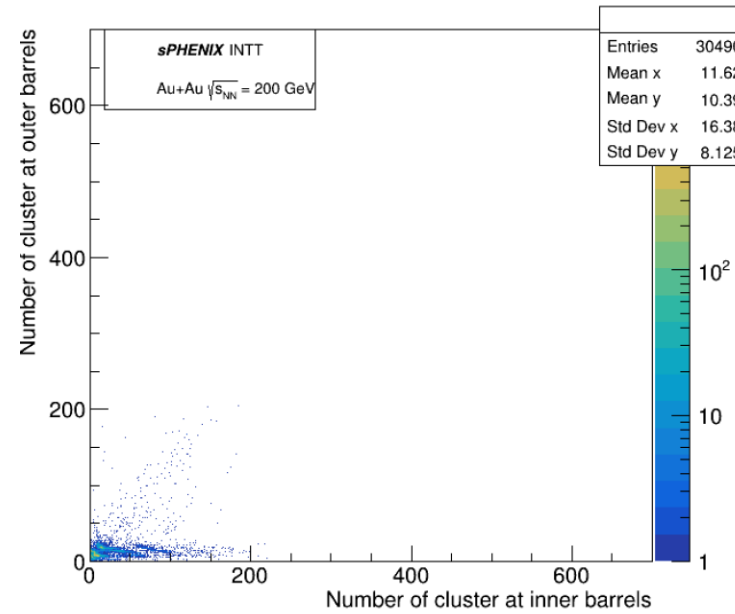


Run#9324 with $n_{\text{collision}}=4, \text{modebits}=60$ (Out of time)

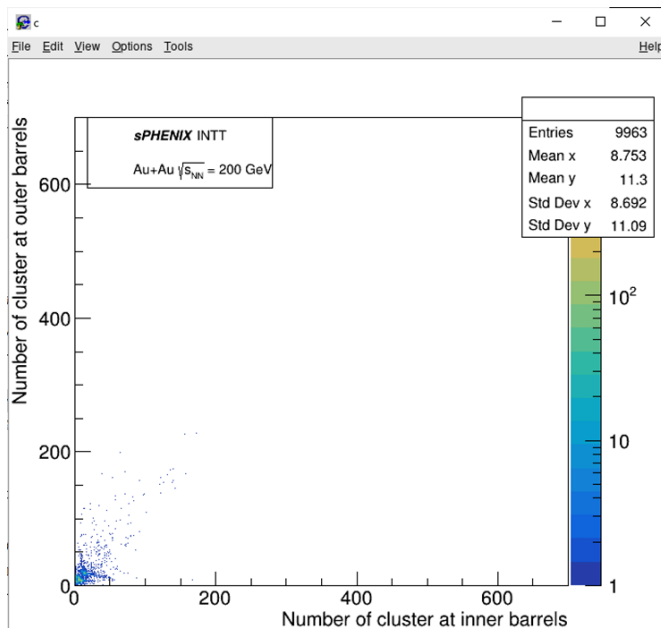
10% of Entris



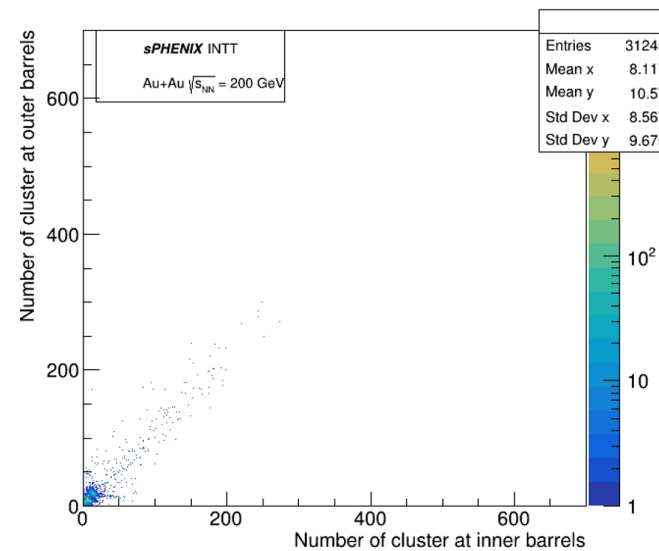
Intt0



Intt3



Intt2



Intt7