

Plots of Event Mixup to show in JPS meeting

2024/03/13

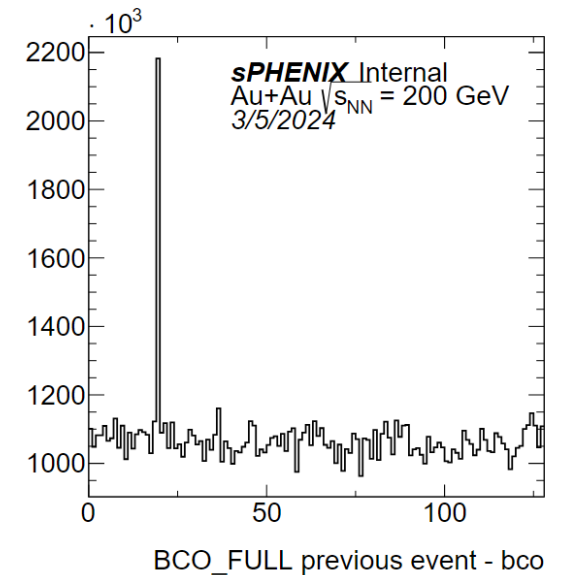
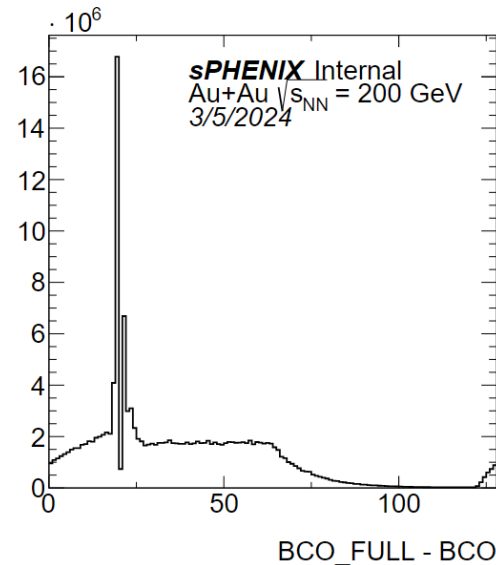
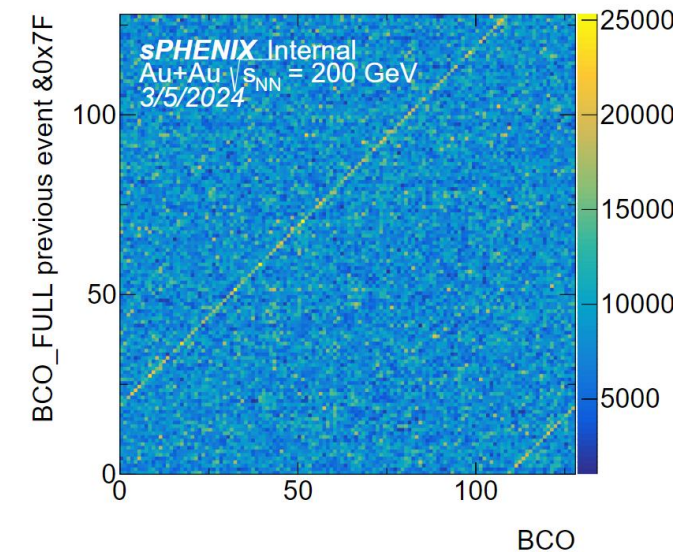
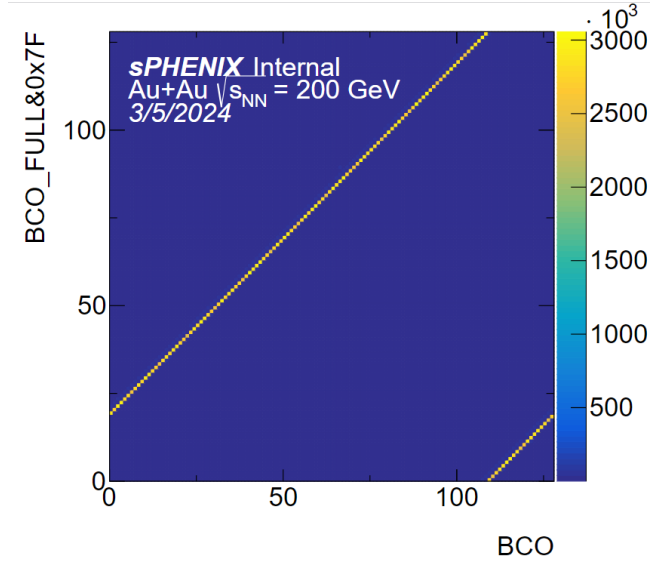
INTTMT

NWU

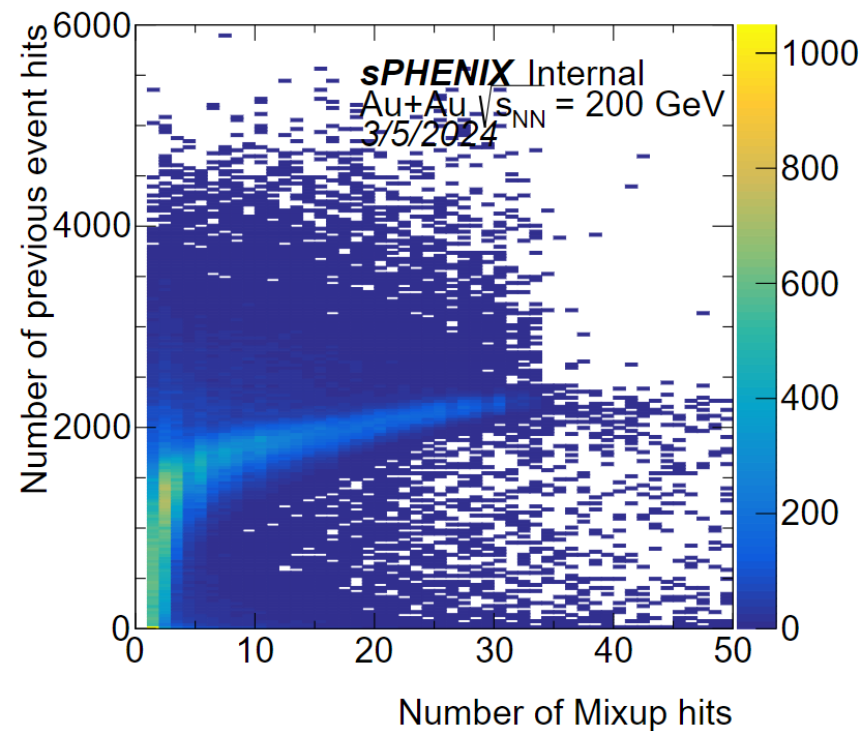
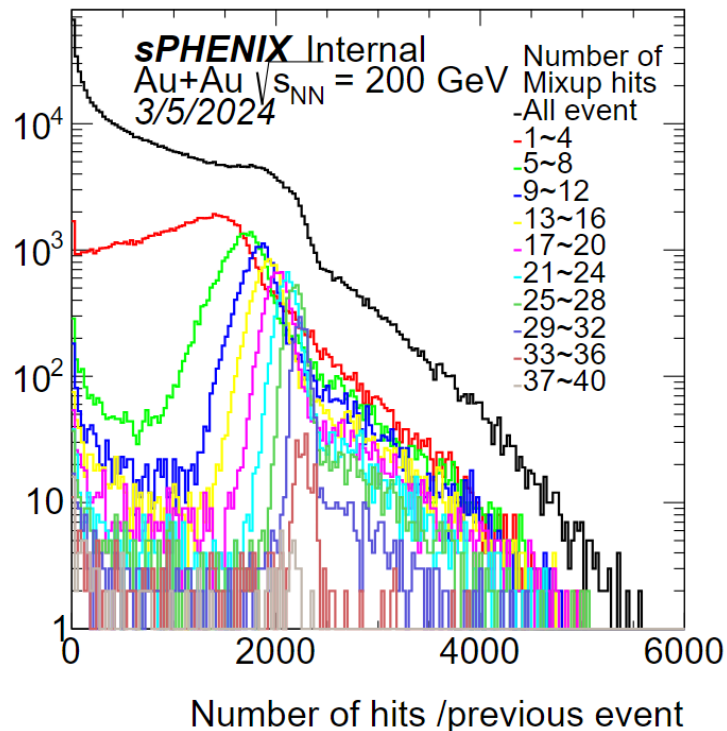
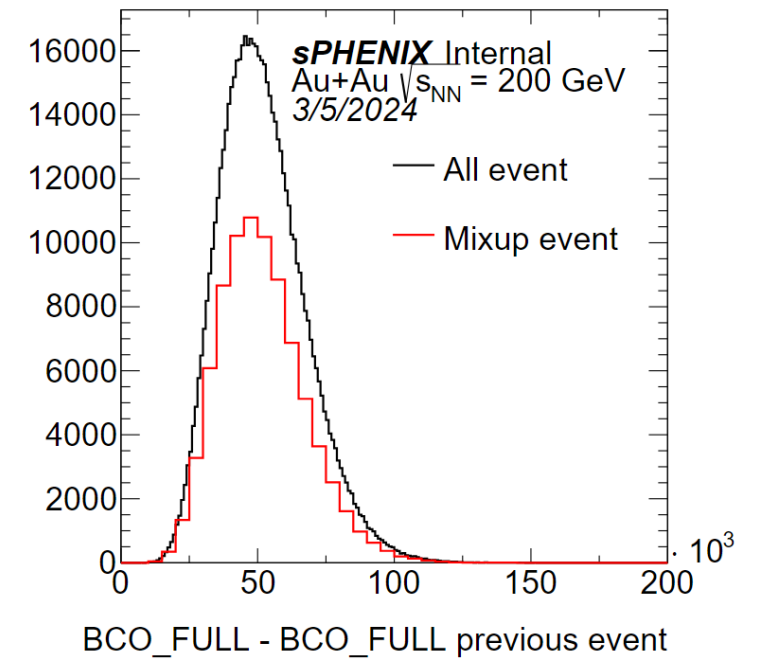
Mai Kano

- I will talk about Event Mixup to report on the current status of INTT data readouts at JPS meeting.
- The right plots are ones I have shown at previous INTT meetings.
- These will be shown at JPS.
- These plots suggests that the previous and current collision data are mixed.

Run#20708 intt5



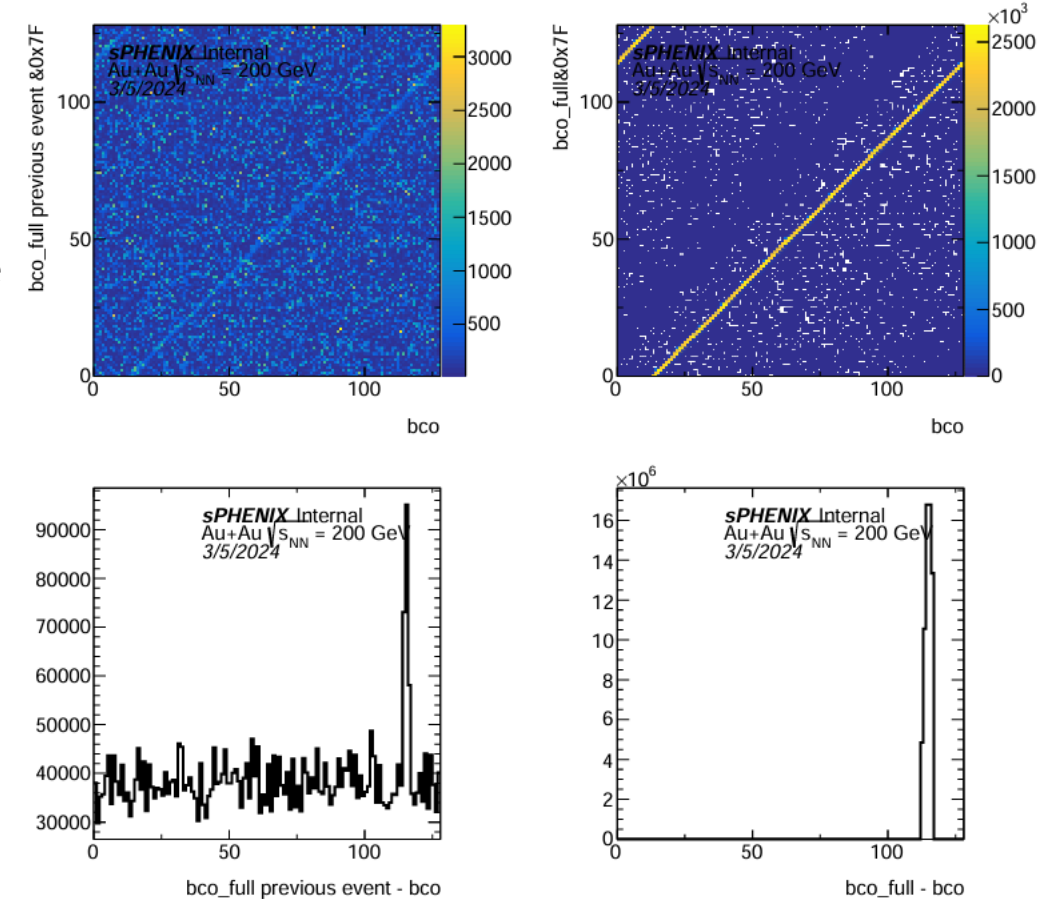
- These plots also are ones I have shown at previous INTT meetings and will be shown at JPS.
- The right figure shows that there is no correlation between Mixup and collision interval, while the bottom two figures show that there is a correlation between the number of Mixup hits and Multiplicity.



Run#20708 intt5

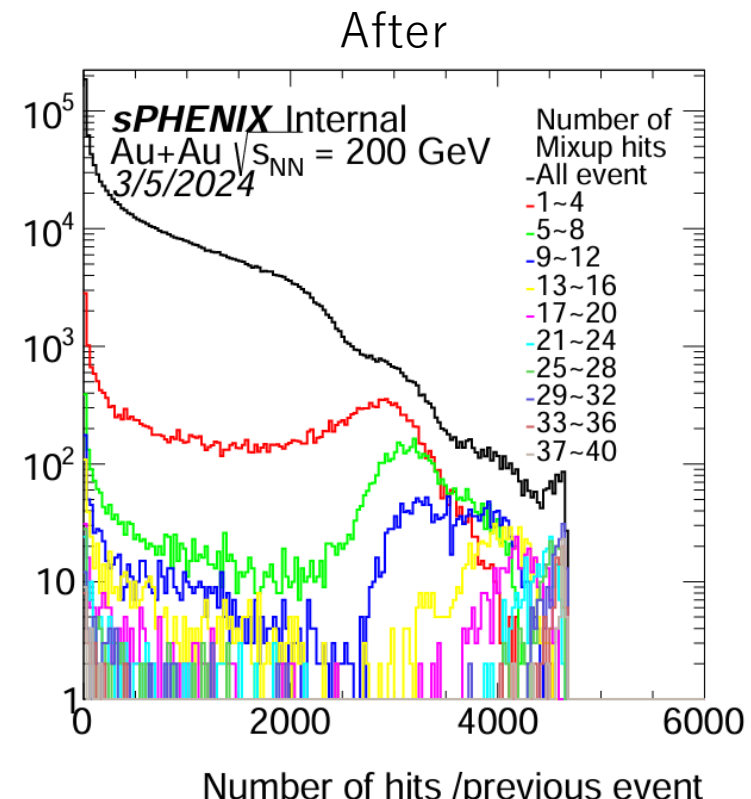
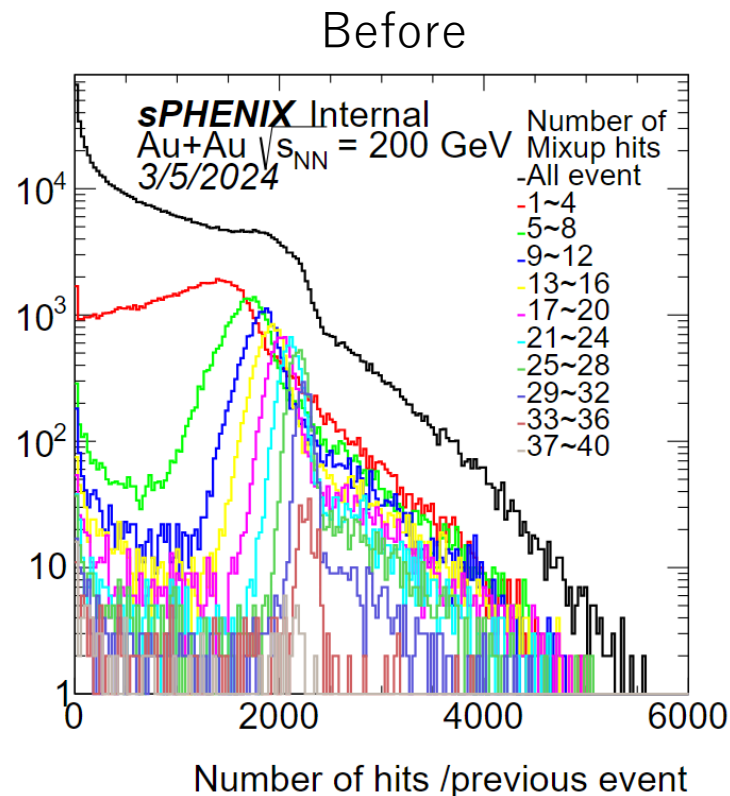
After Felix upgrade(Run24768 08/2023)

- The next result is a new one. After analyzing the Run data after the Felix version upgrade, we found that there were Run and Felix where the mixup could be confirmed and others where it could not be clearly confirmed.
- At Run24768 intt1,6 mixups could be confirmed, changes were observed in the multiplicity distribution.



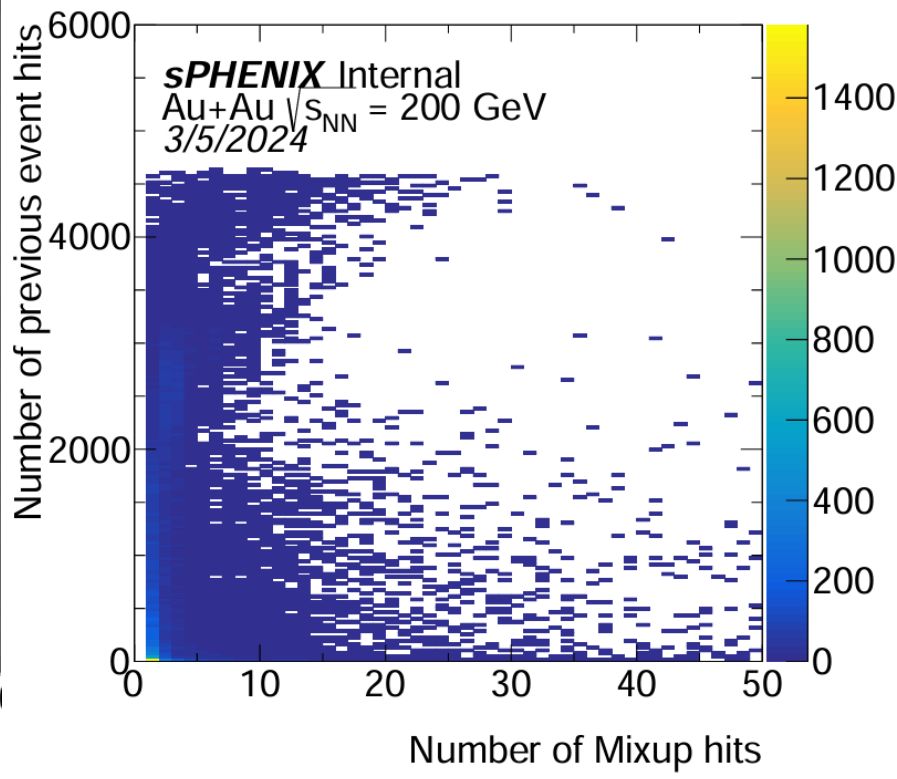
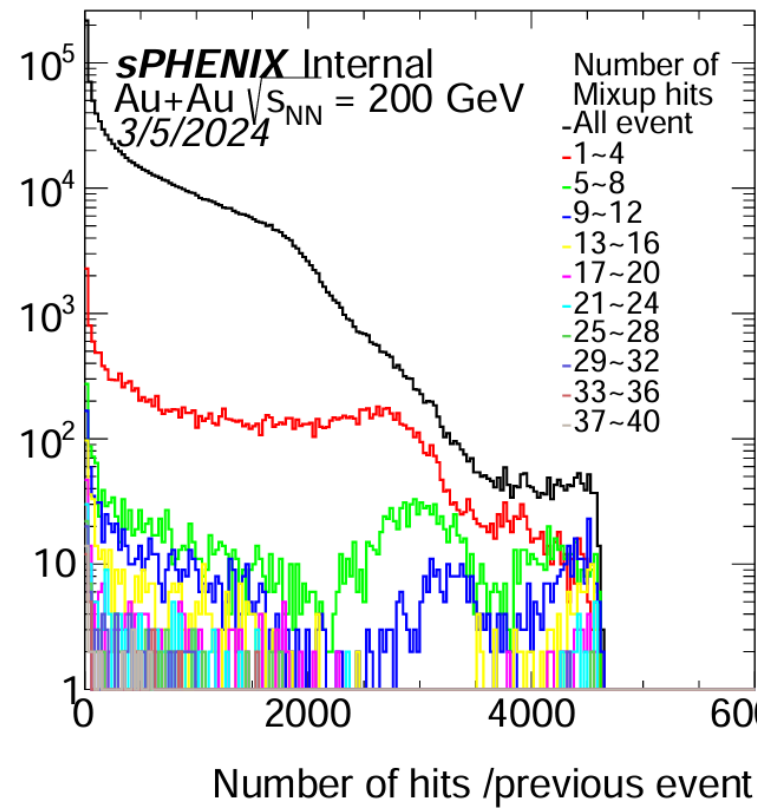
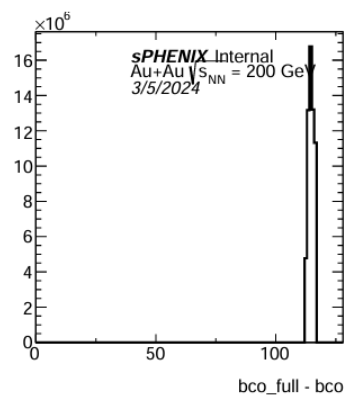
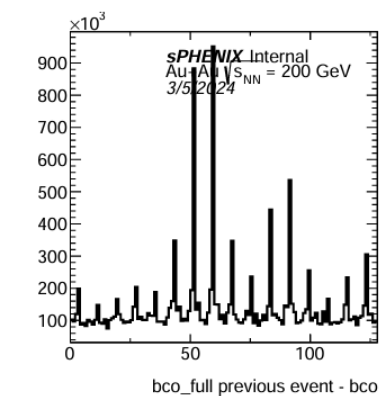
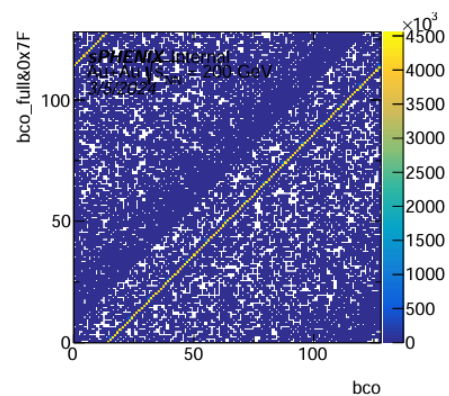
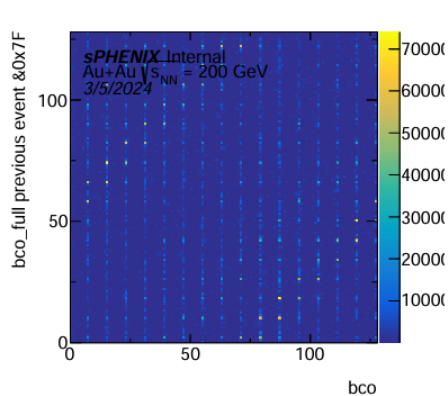
After Felix upgrade (Run24768 08/2023)

- The position of the Multiplicity peak shifted to the larger side, and the Multiplicity at which more Mixup occur changed from 1500~2500 to 3000~4000.
 - This suggests that Mixup were less likely to occur after the upgrade.
- I plan to continue to examine other data.

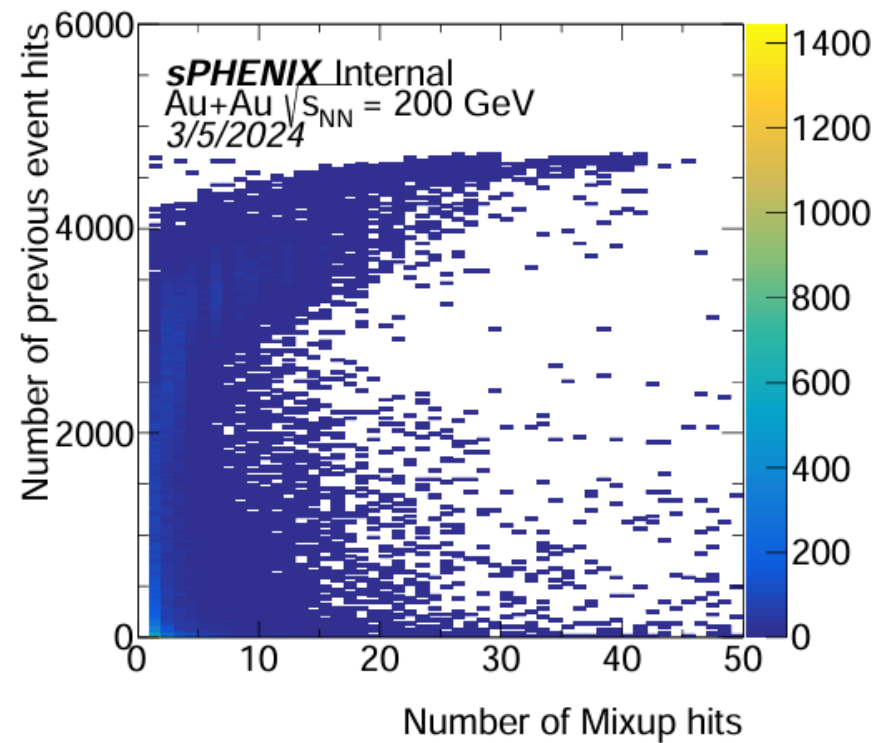
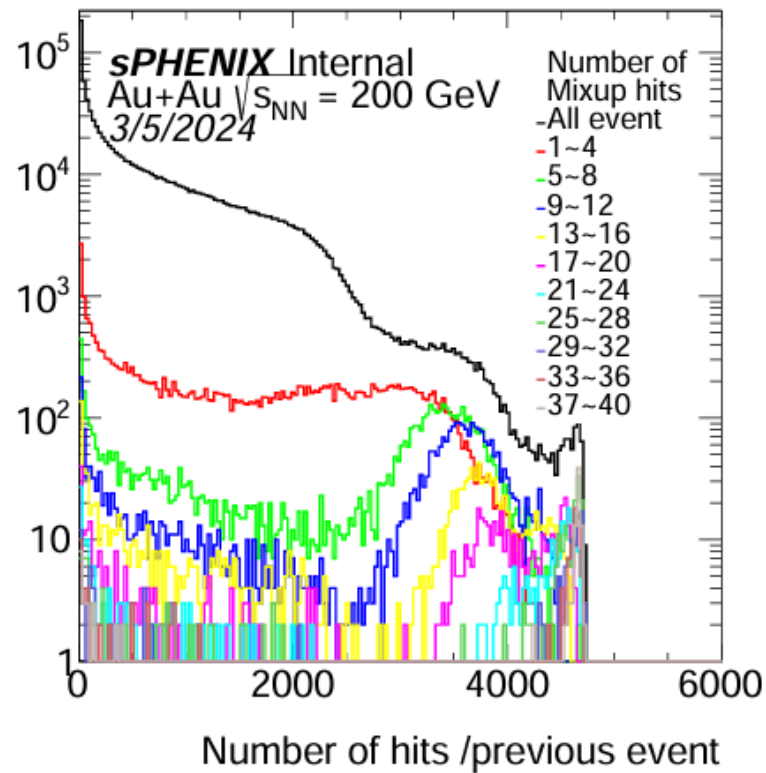
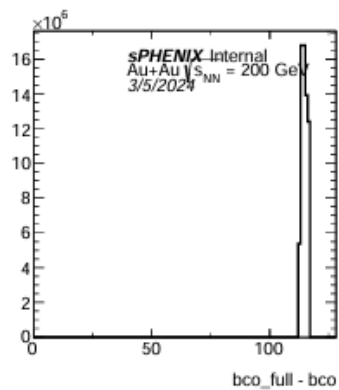
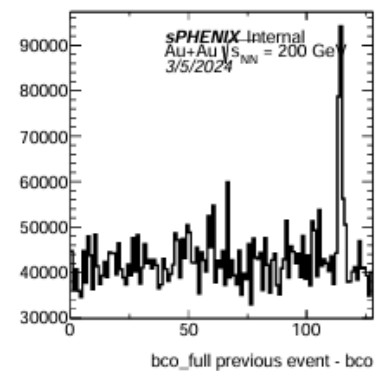
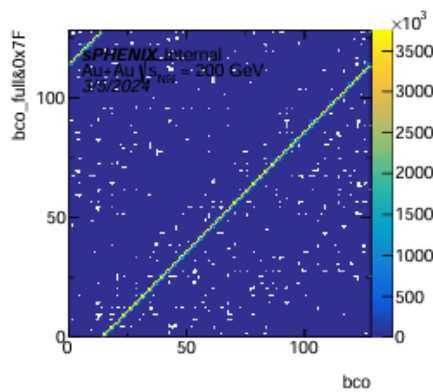
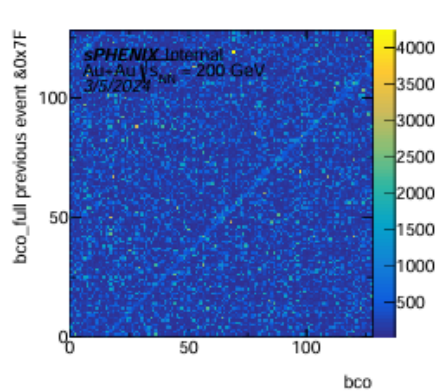


Backup (Run24768)

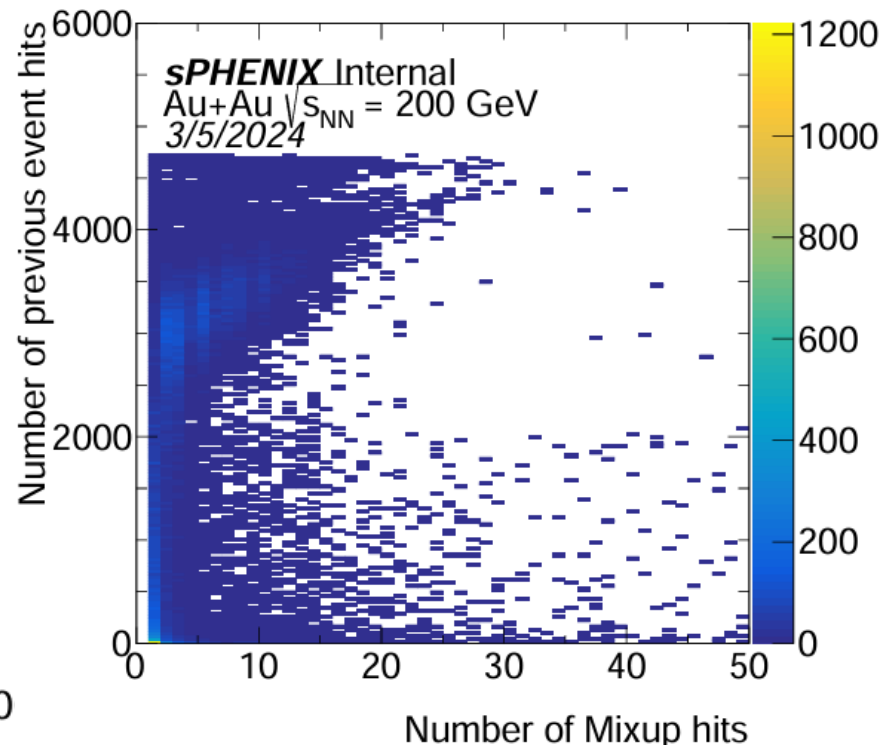
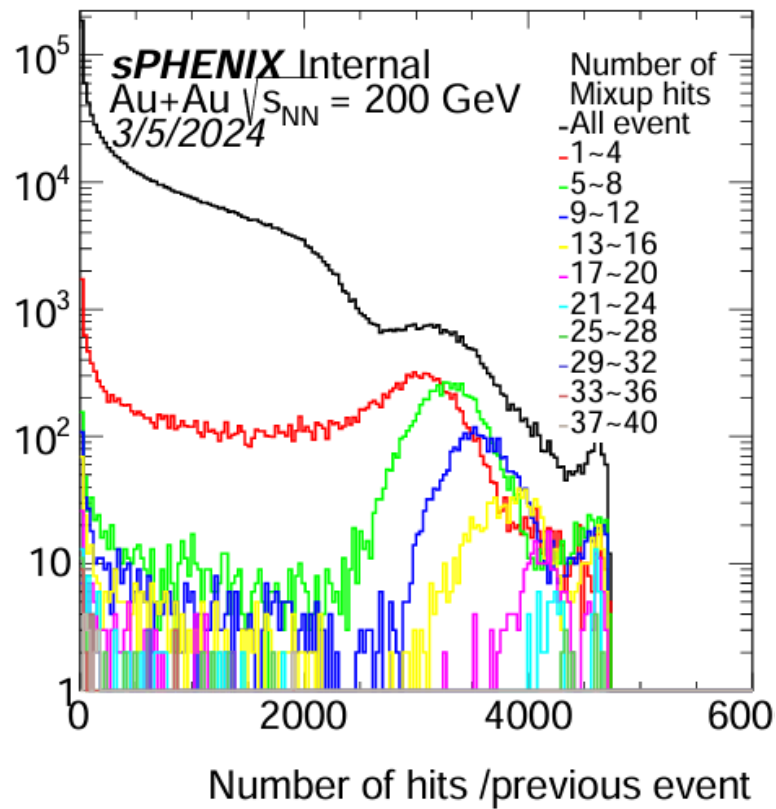
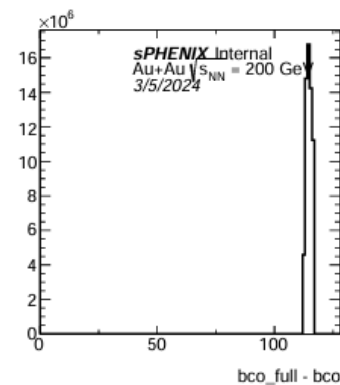
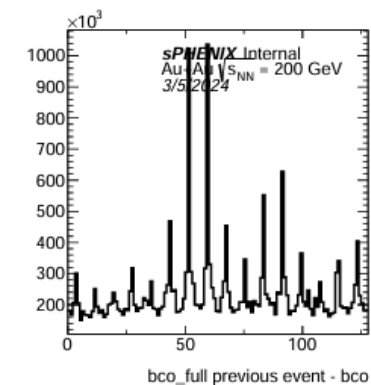
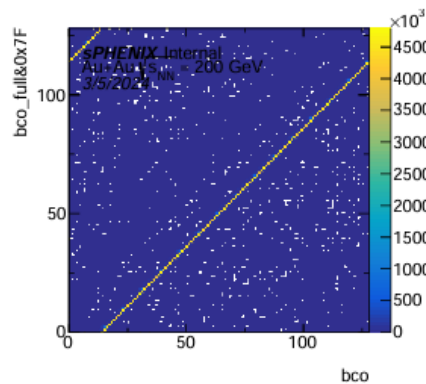
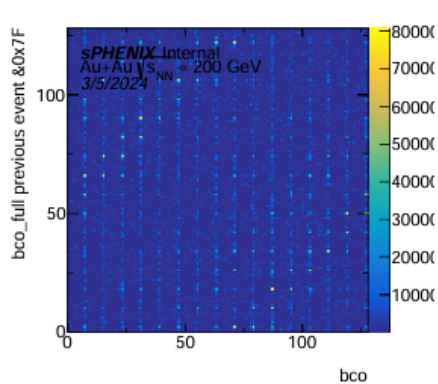
intt0



intt1

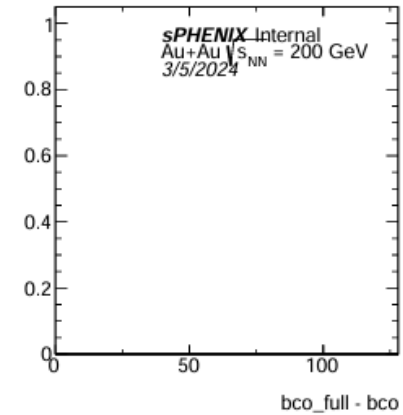
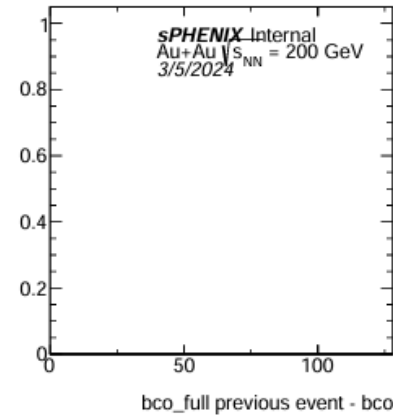
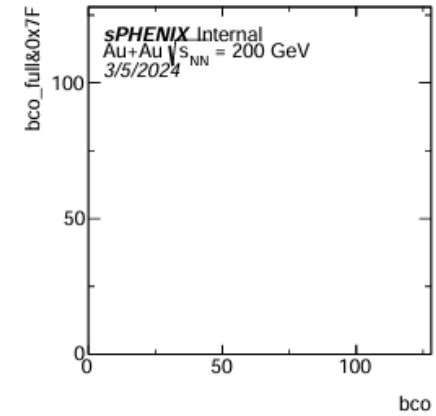
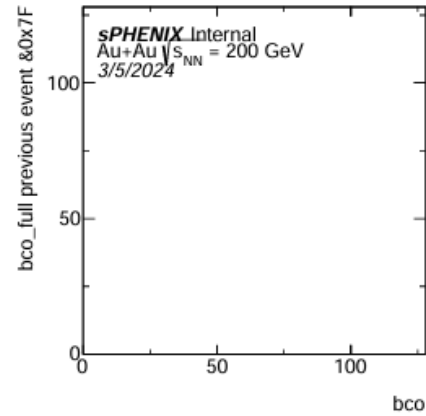


intt2

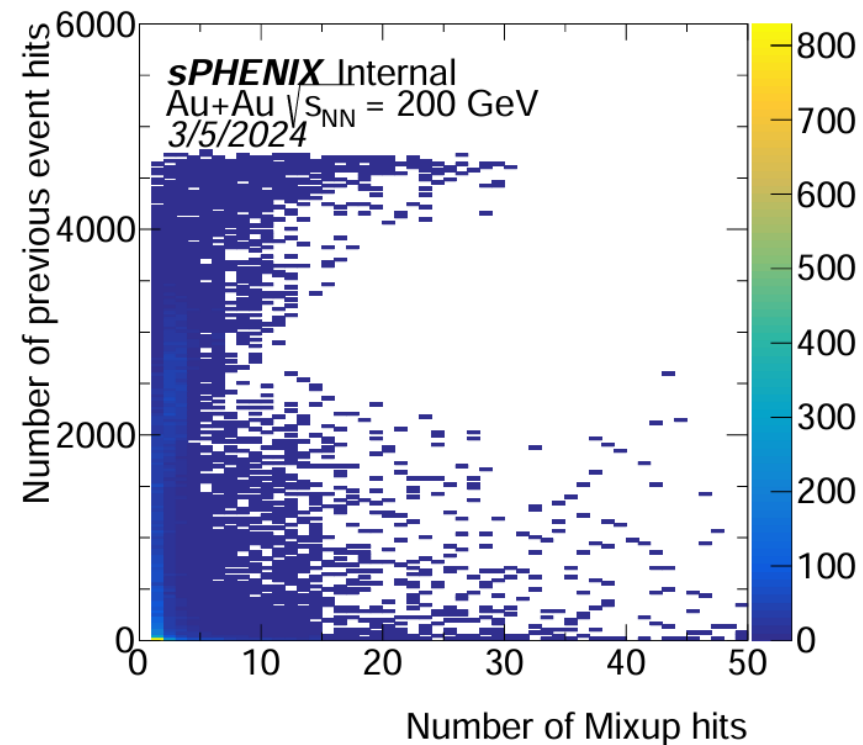
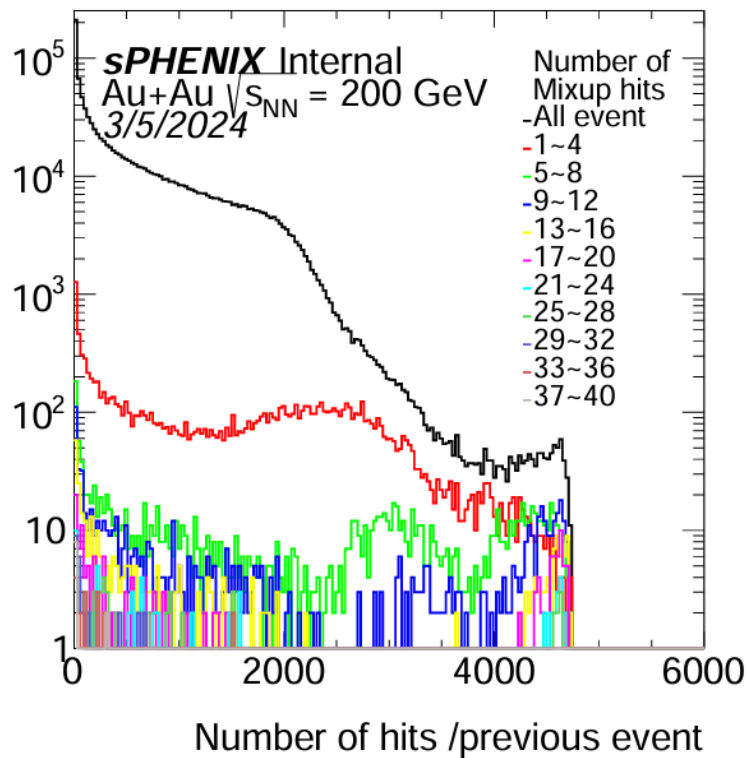
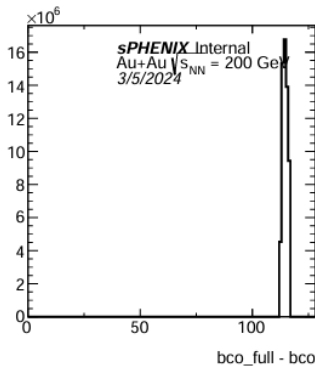
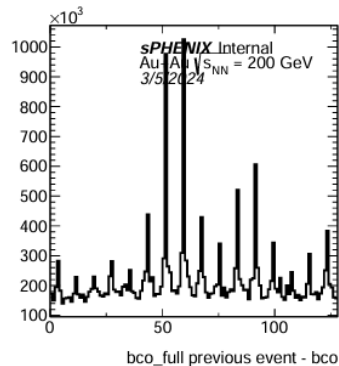
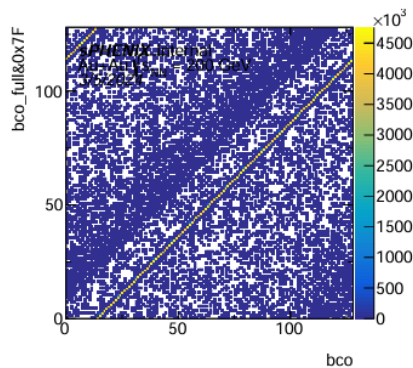
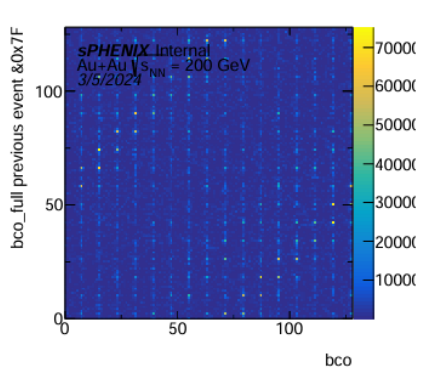


Intt3 No data?

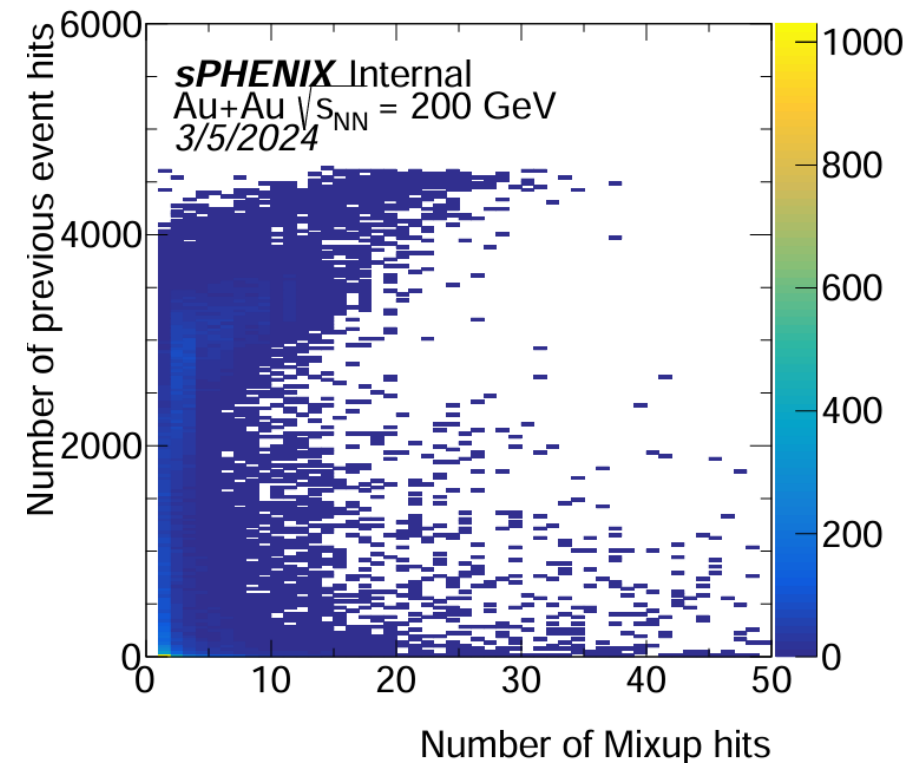
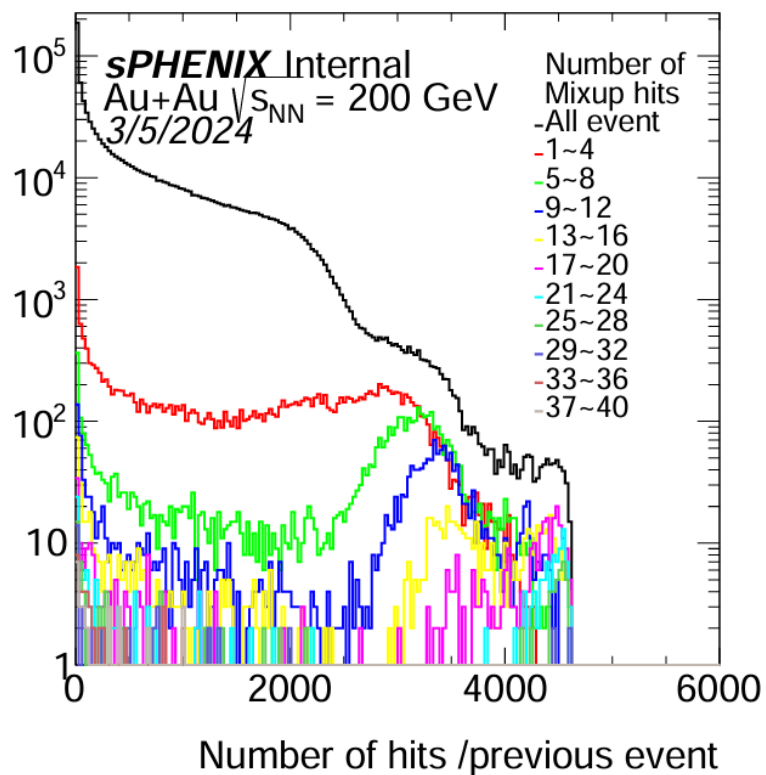
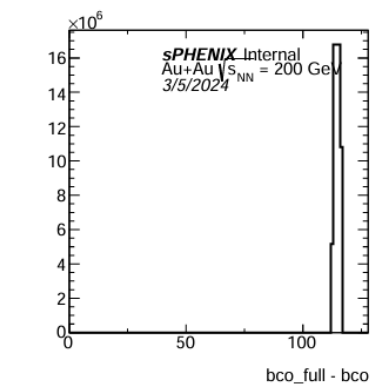
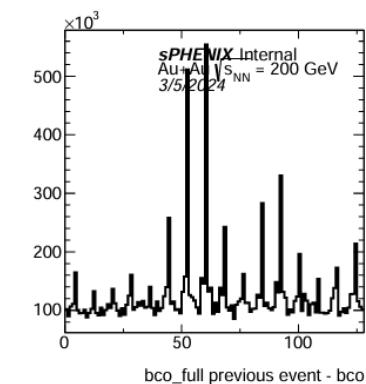
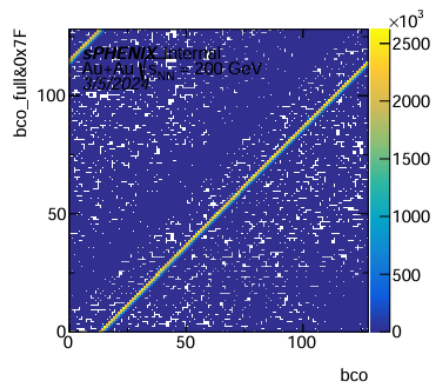
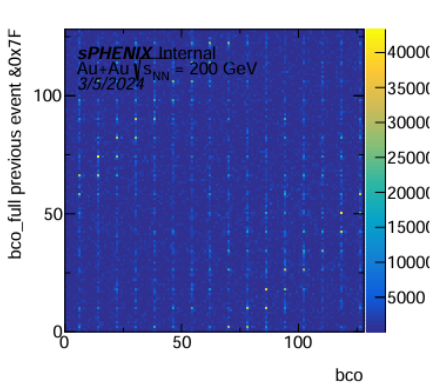
- Couldn't find the peak.



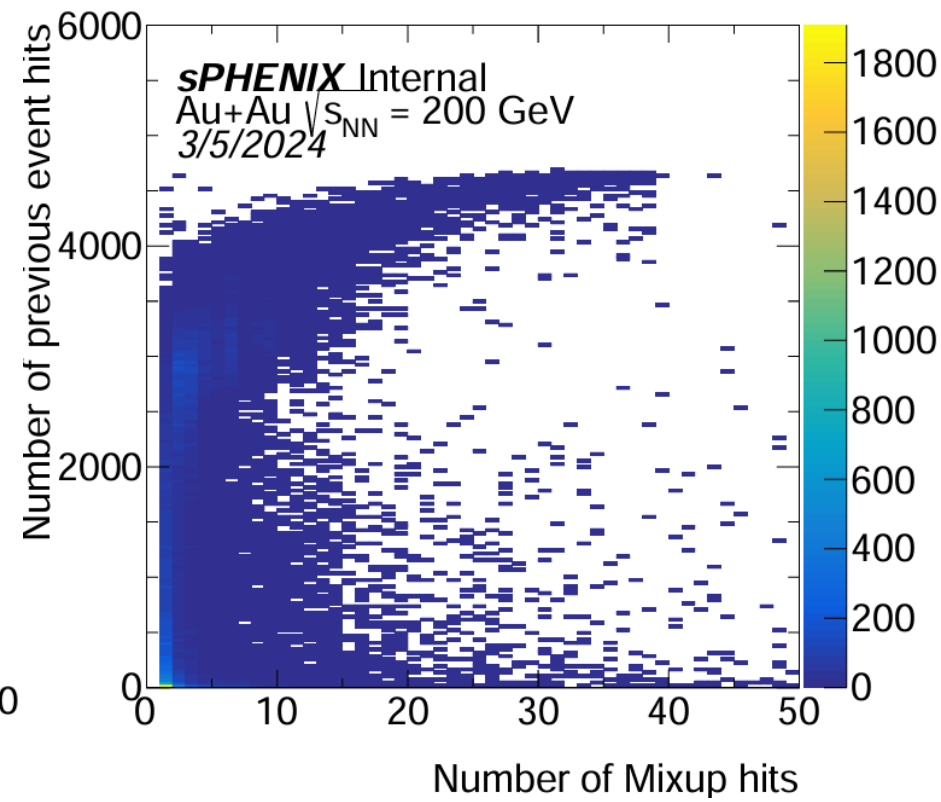
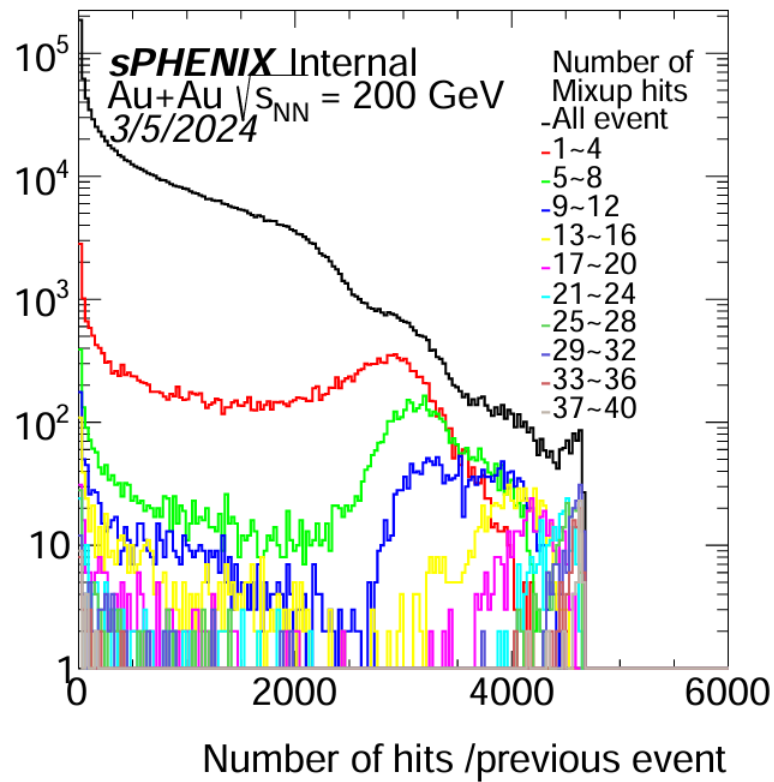
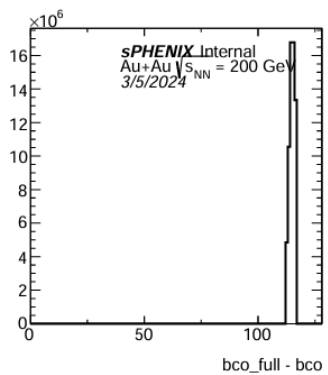
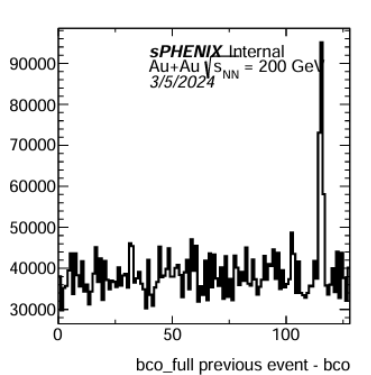
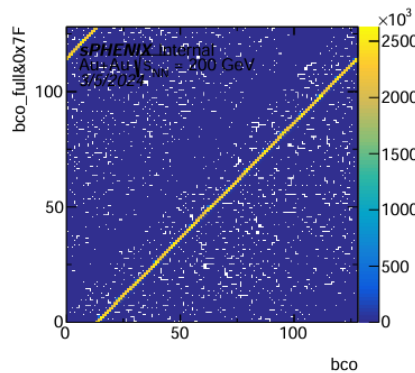
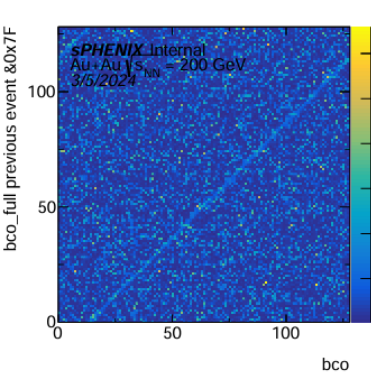
intt4



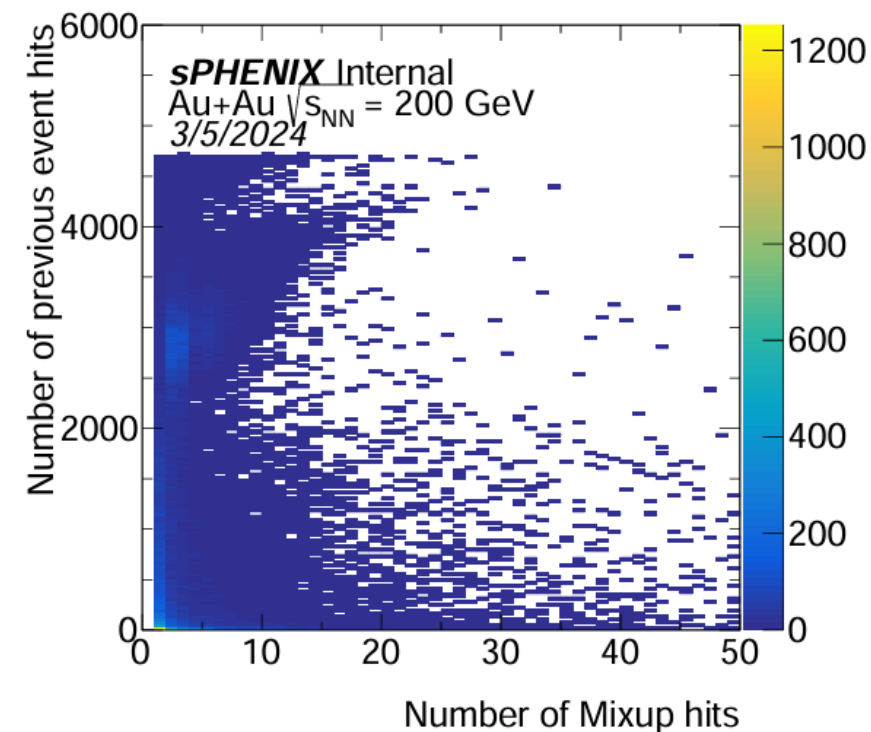
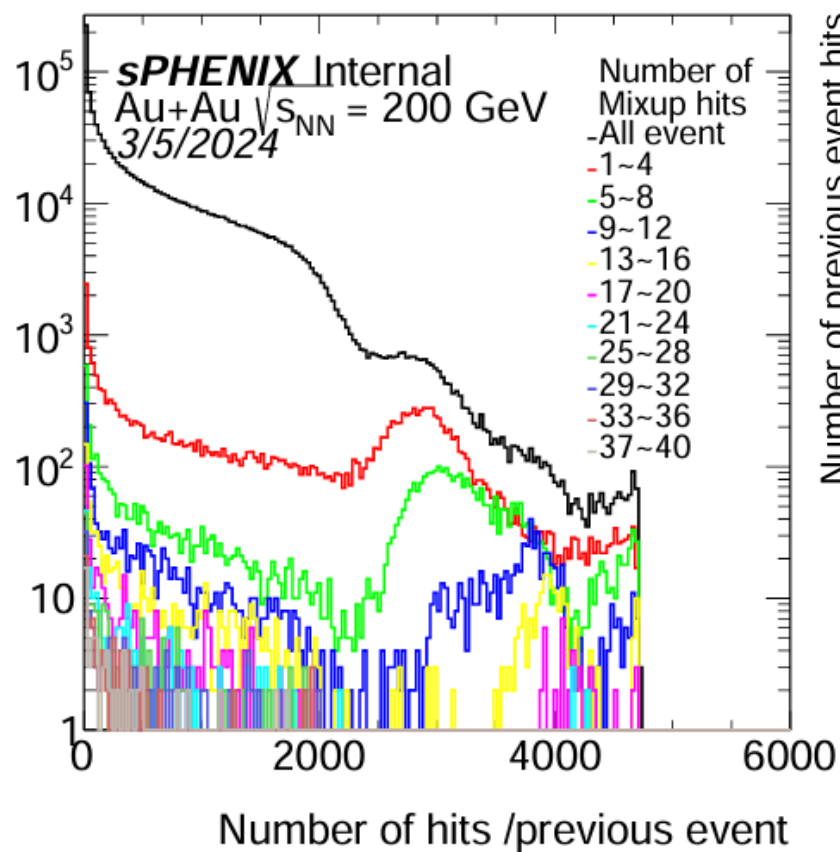
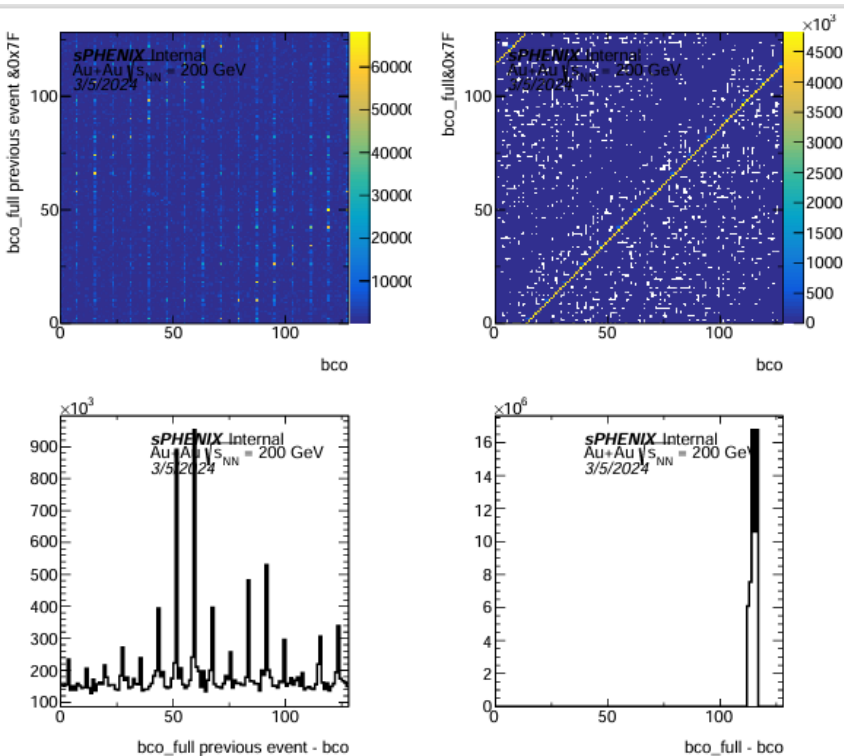
intt5



intt6

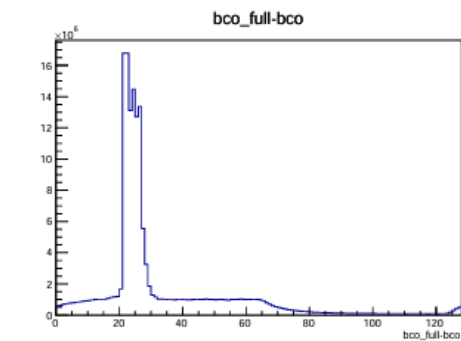
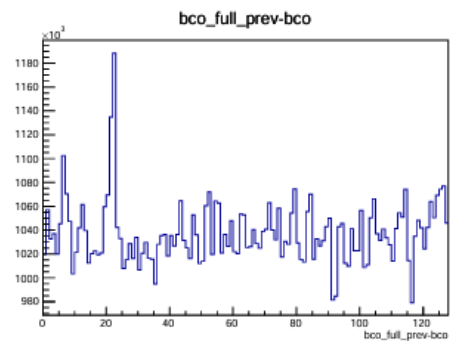
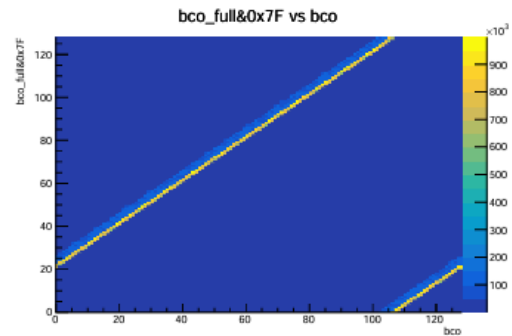
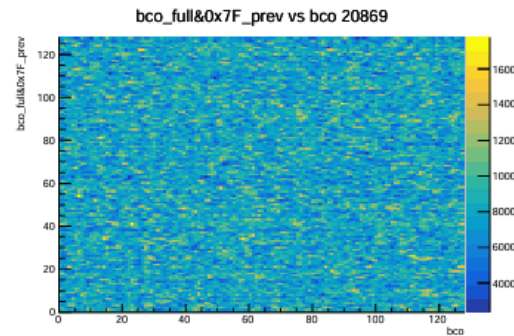


intt7

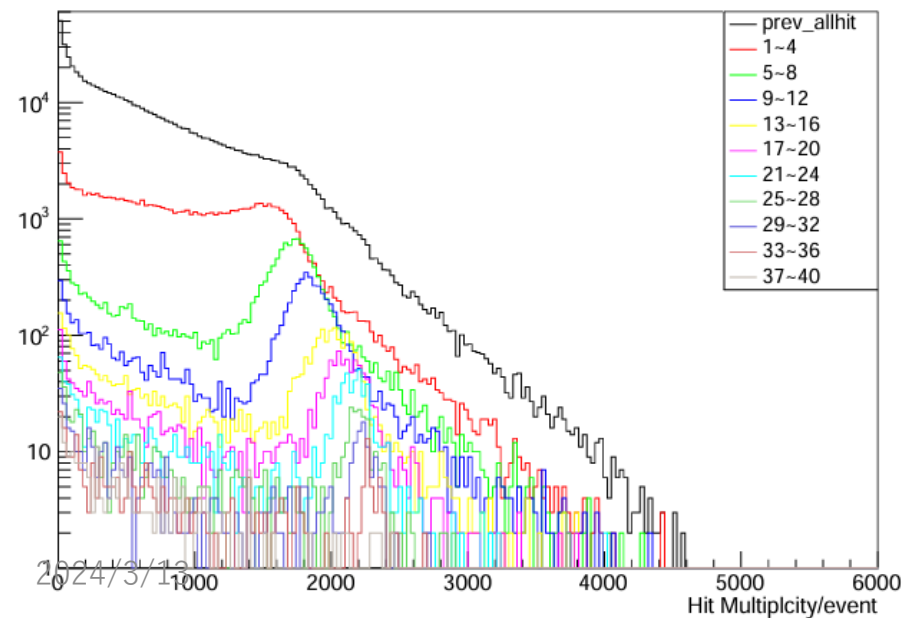


Backup (Run20869)

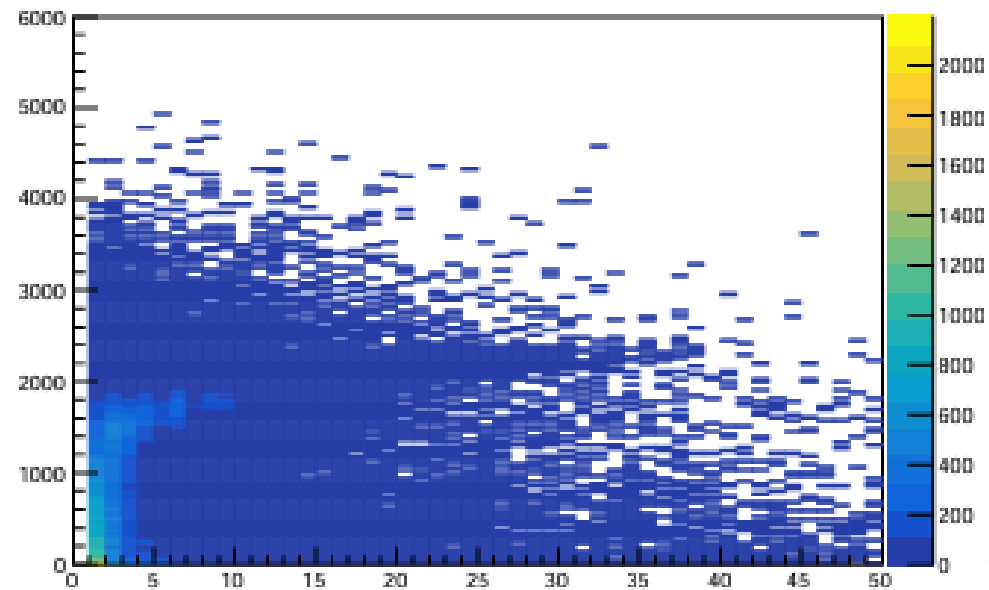
intt0



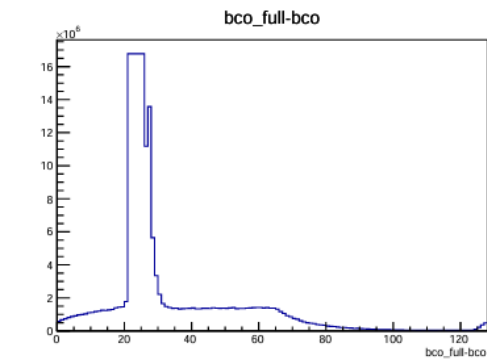
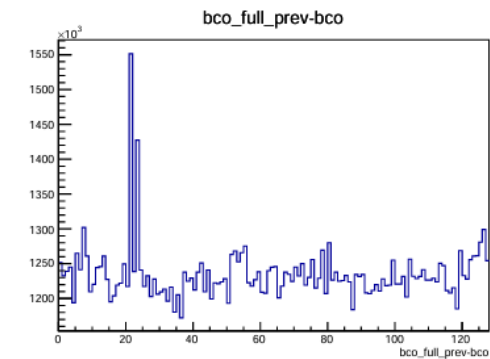
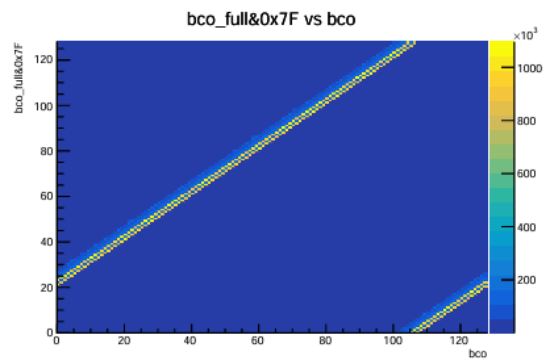
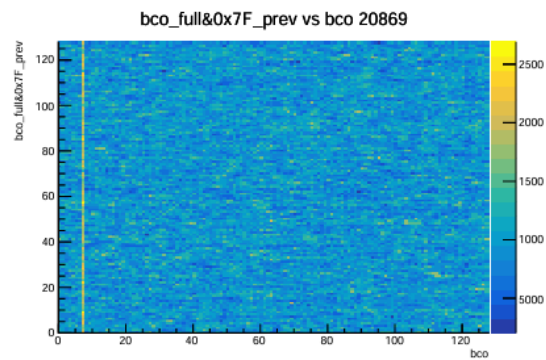
Mixup Multiplicity 20869



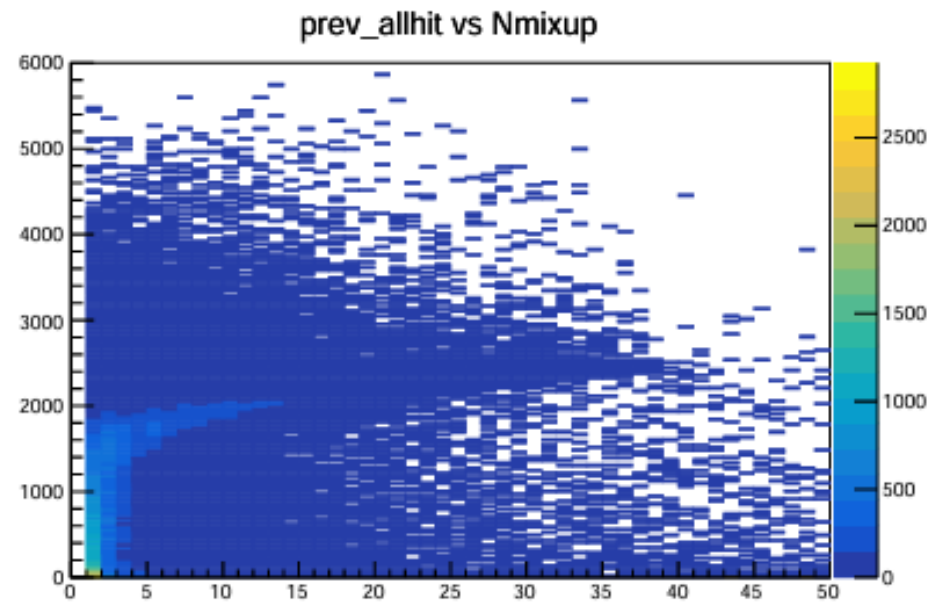
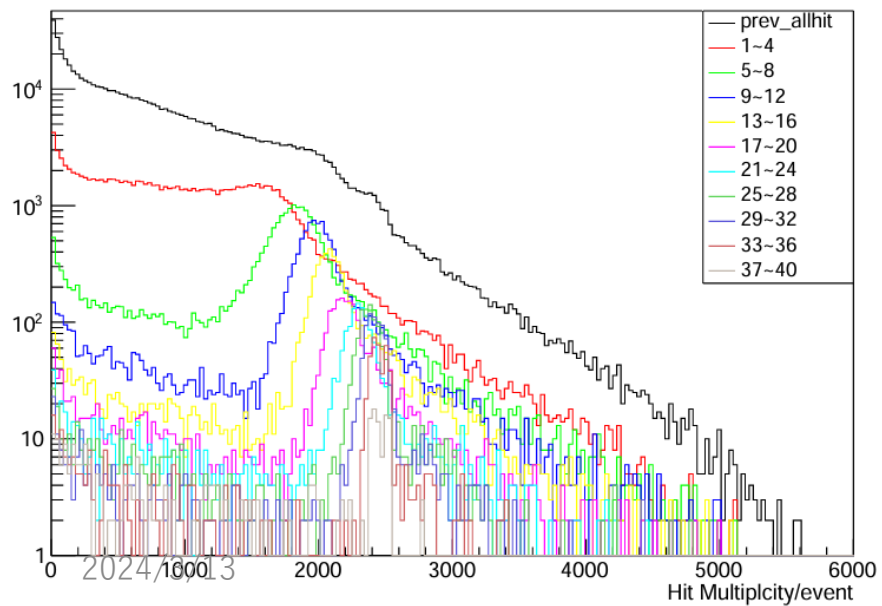
prev_allhit vs Nmixup



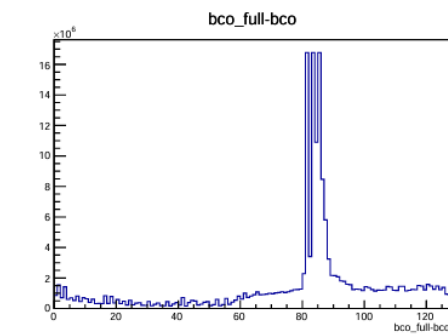
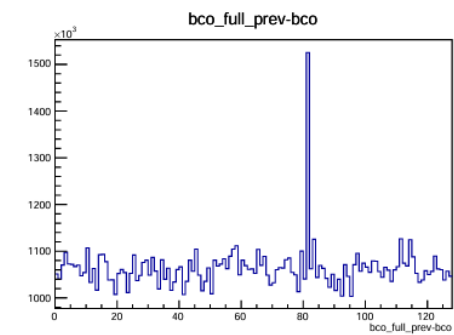
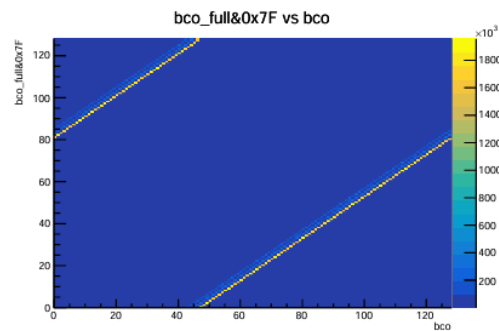
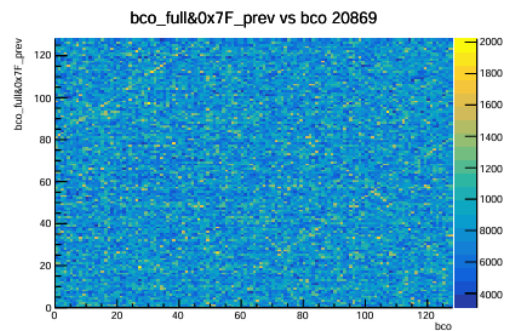
intt1



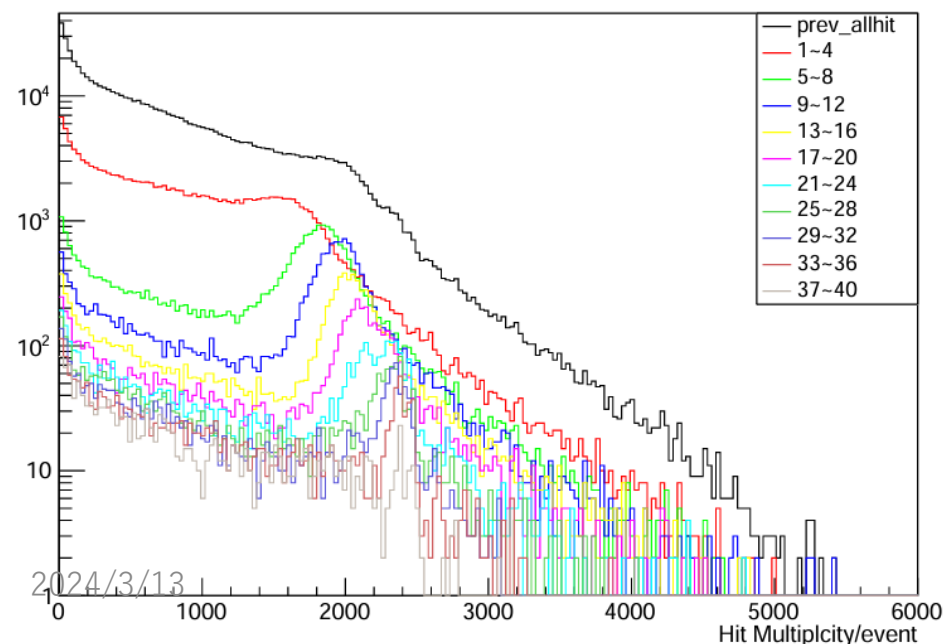
Mixup Multiplicity 20869



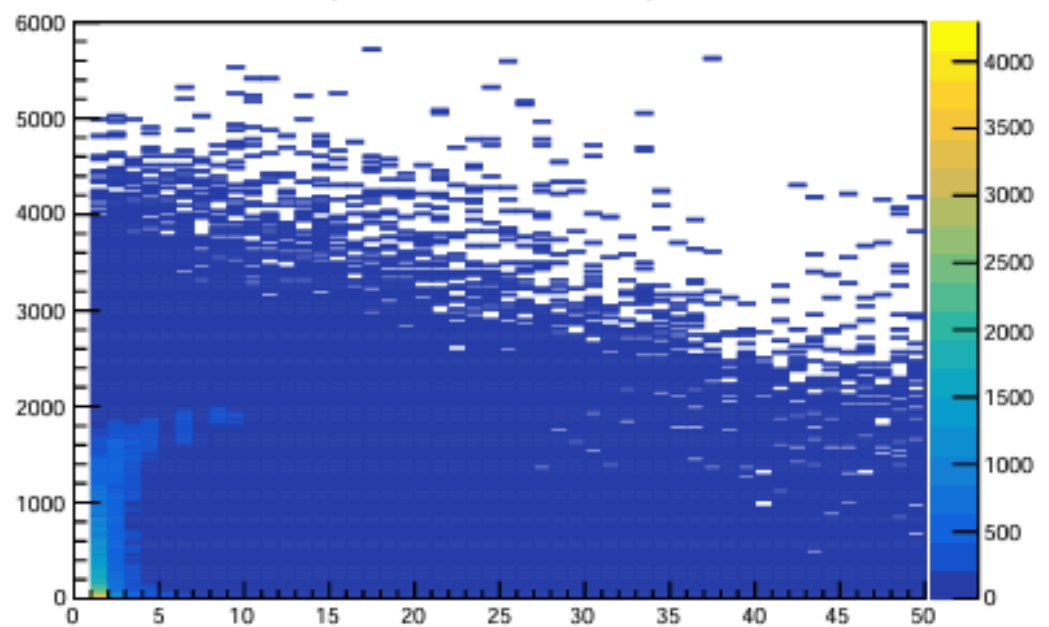
intt2



Mixup Multiplicity 20869

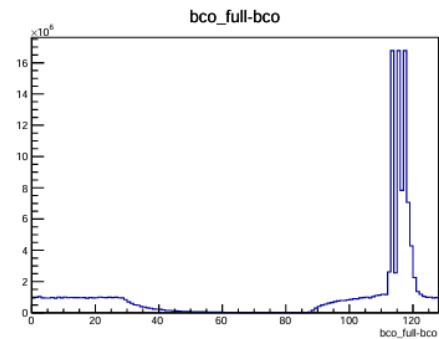
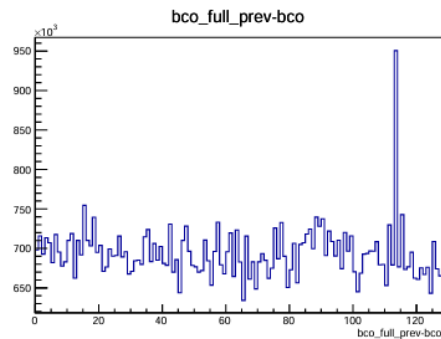
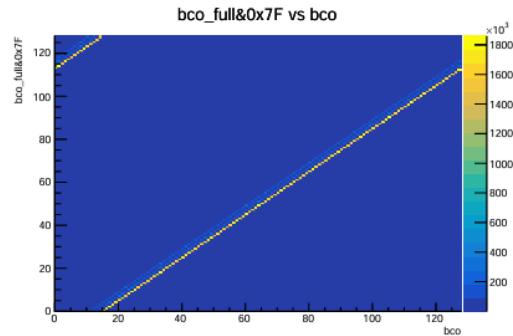
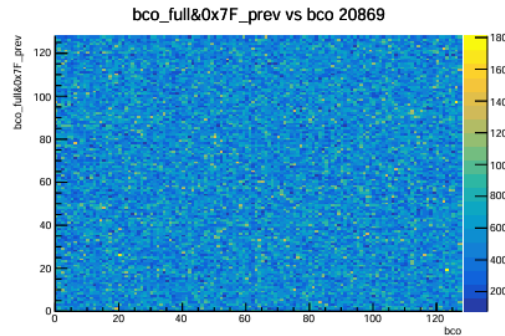


prev_allhit vs Nmixup

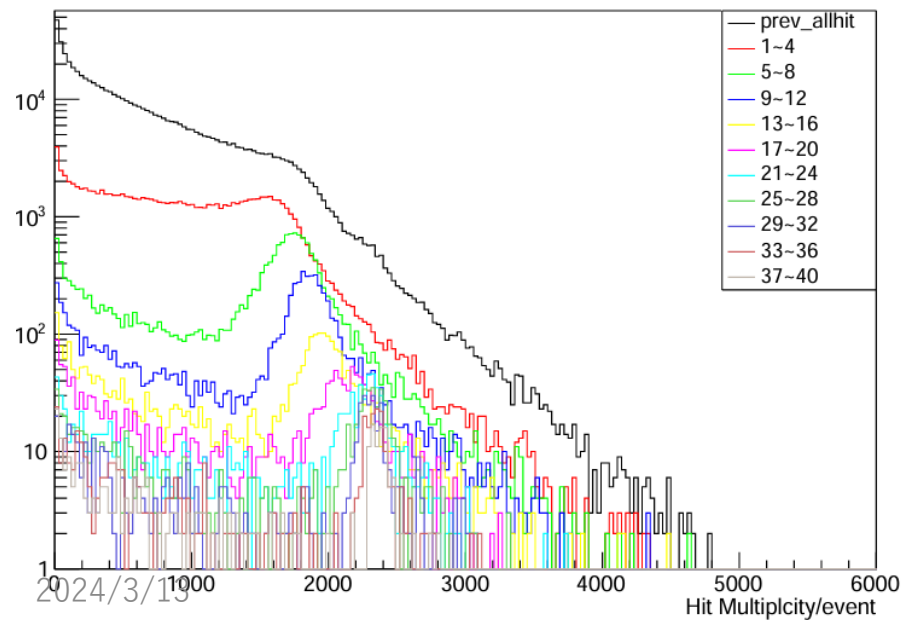


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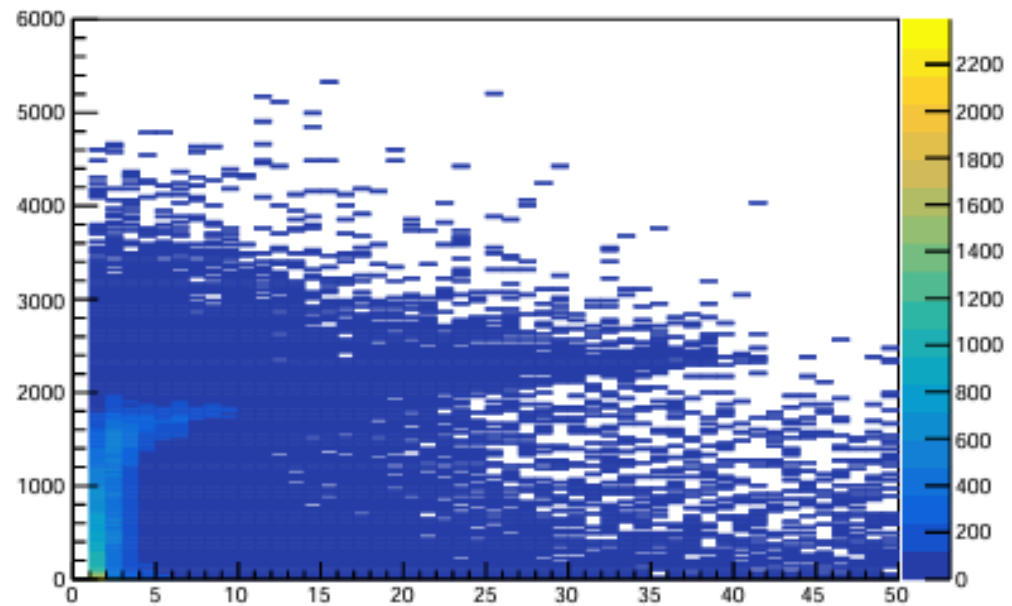
intt3



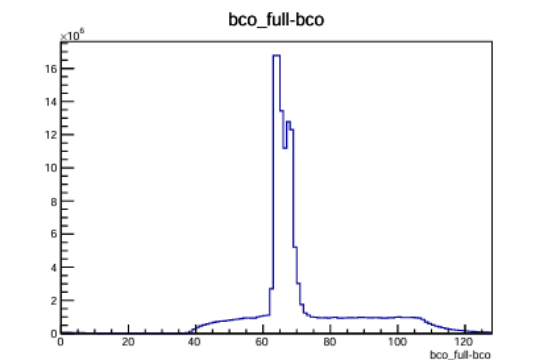
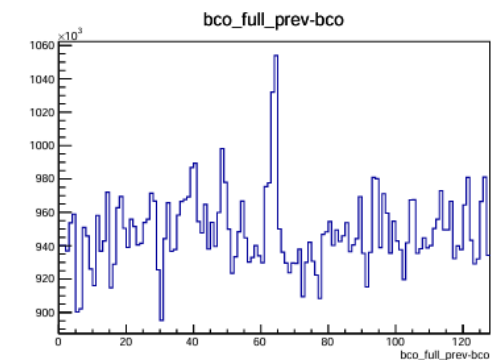
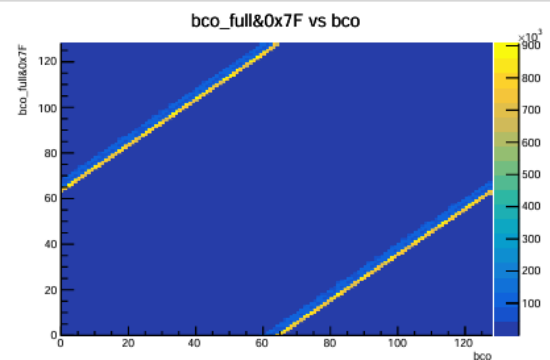
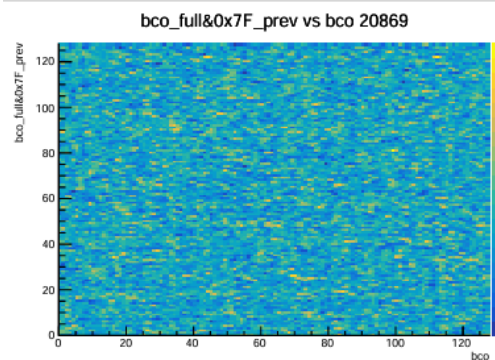
Mixup Multiplicity 20869



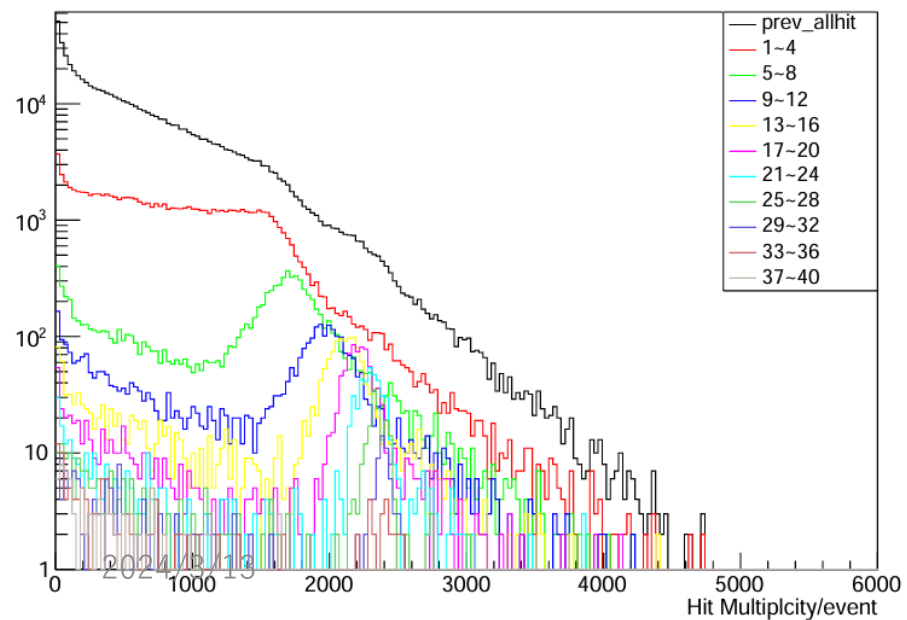
prev_allhit vs Nmixup



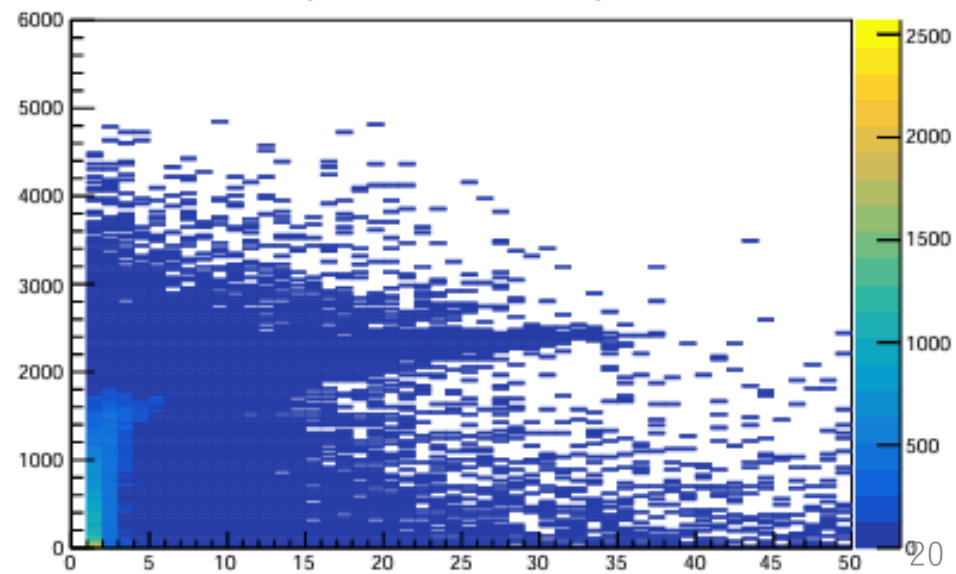
intt4



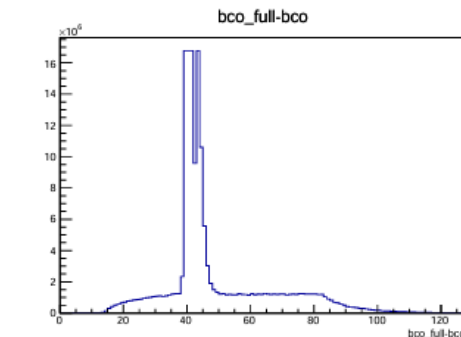
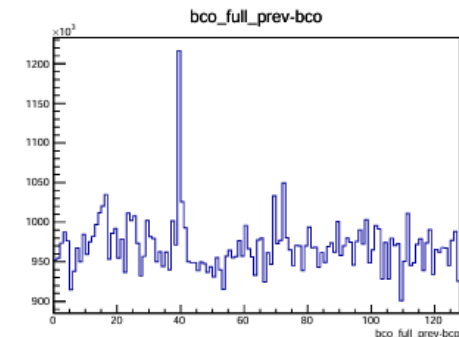
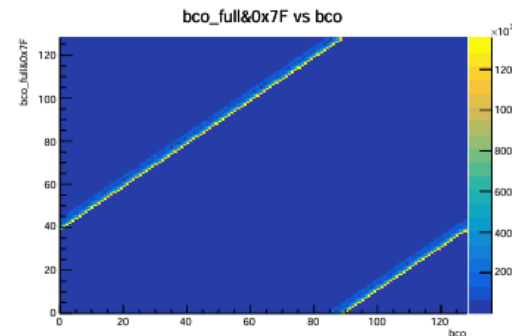
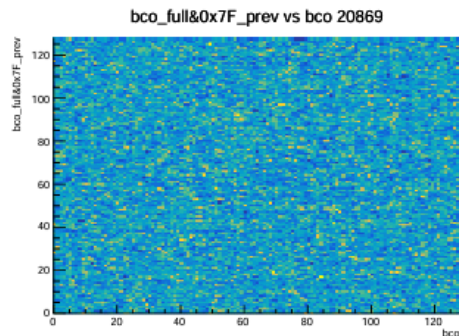
Mixup Multiplicity 20869



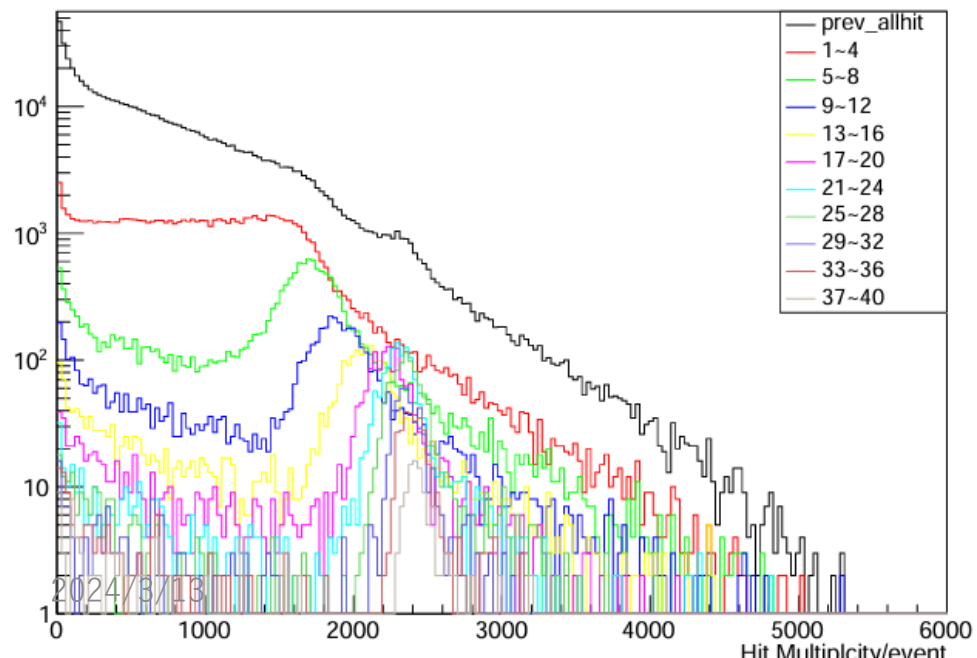
prev_allhit vs Nmixup



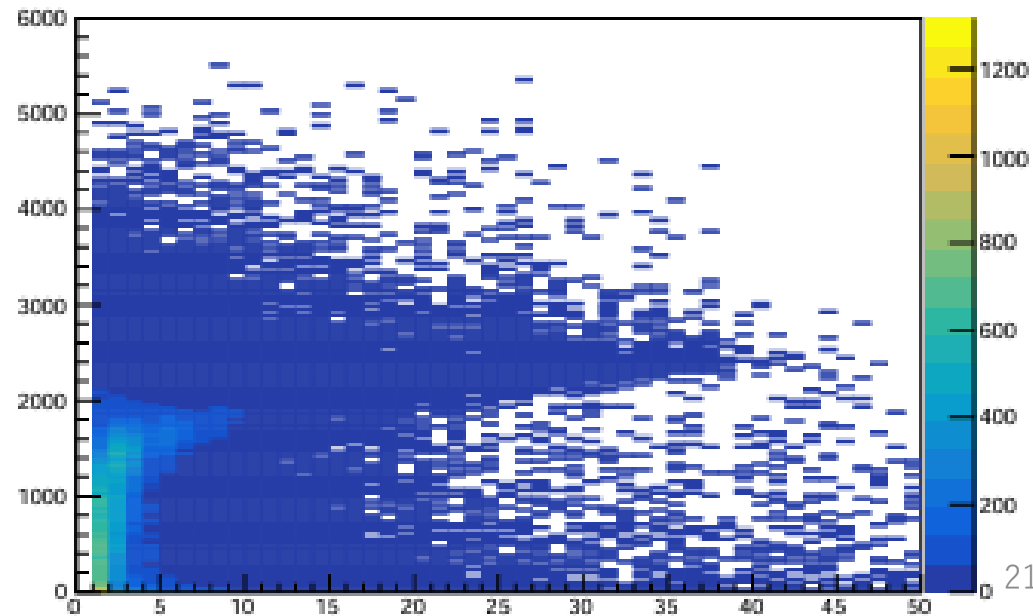
intt5



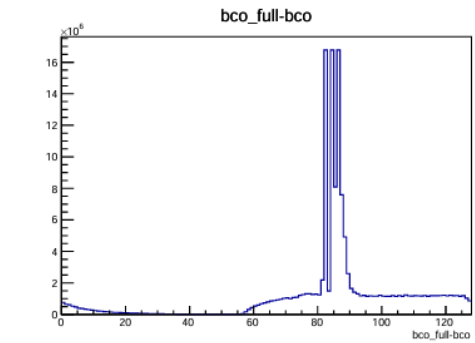
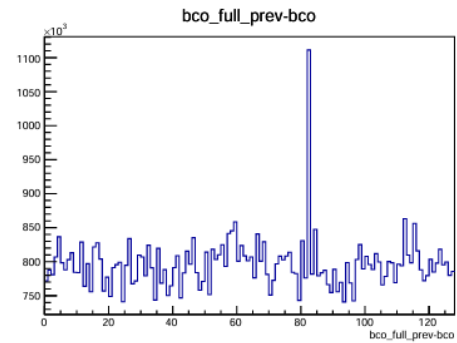
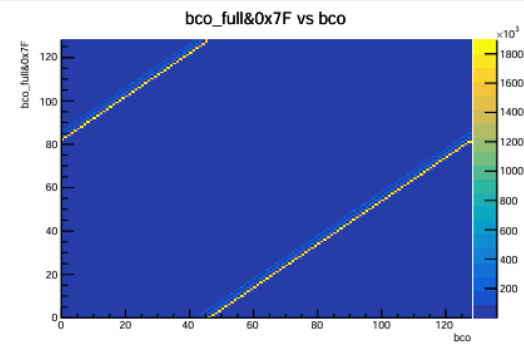
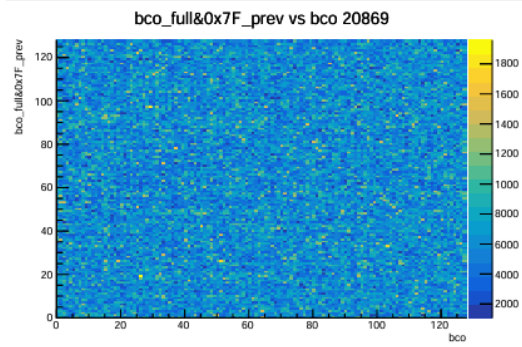
Mixup Multiplicity 20869



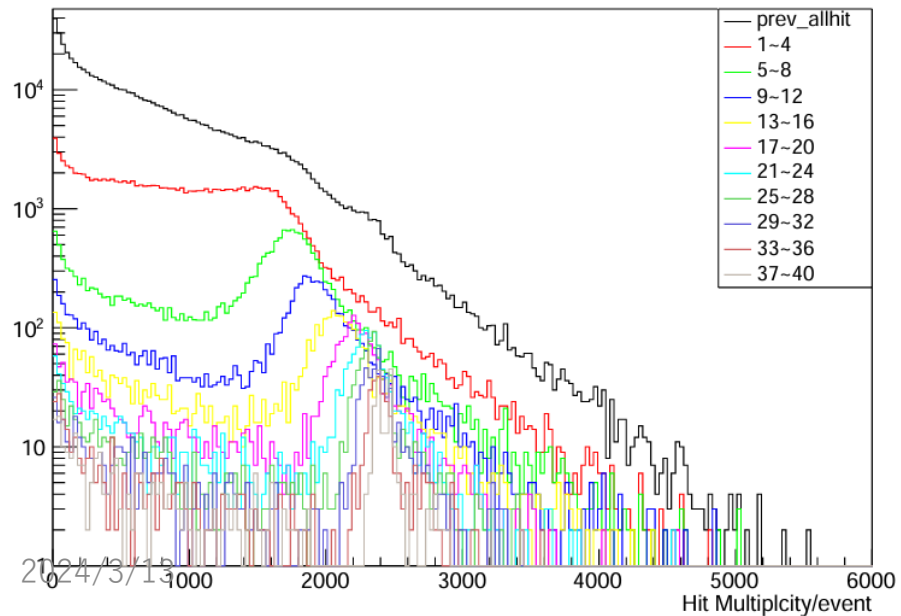
prev_allhit vs Nmixup



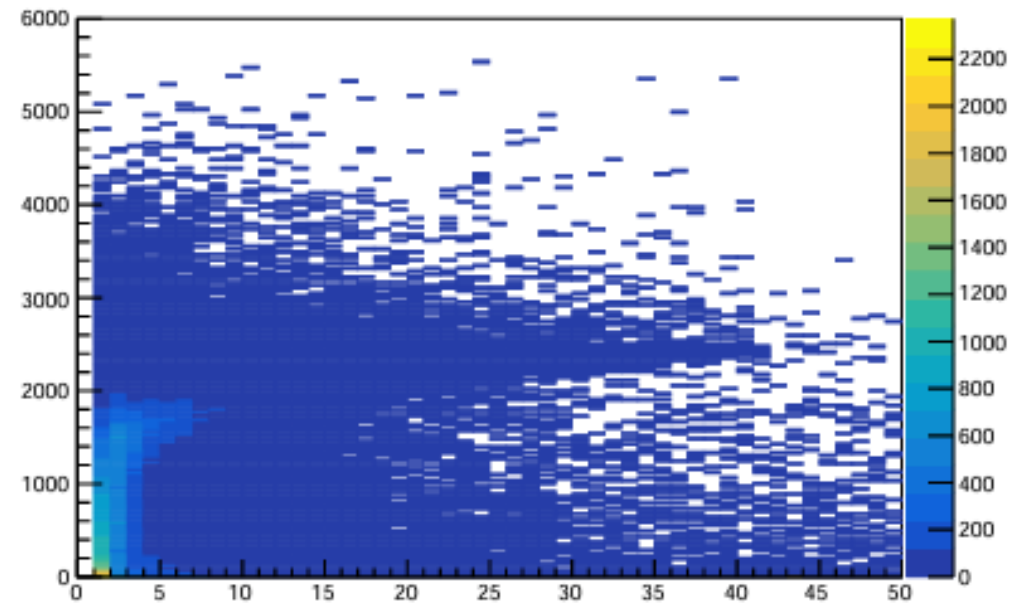
intt6



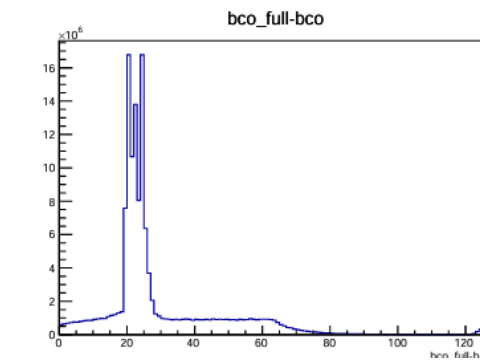
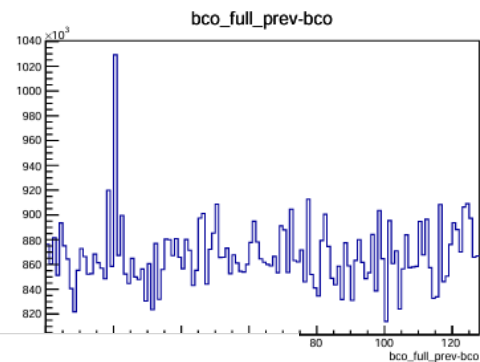
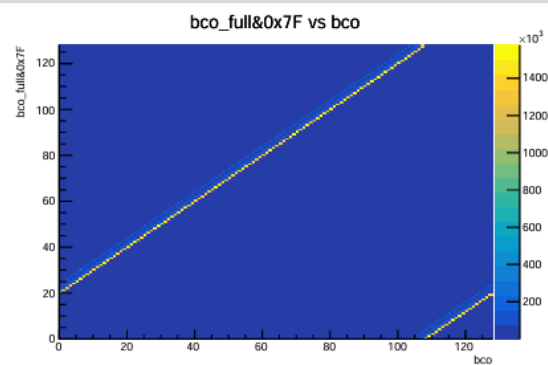
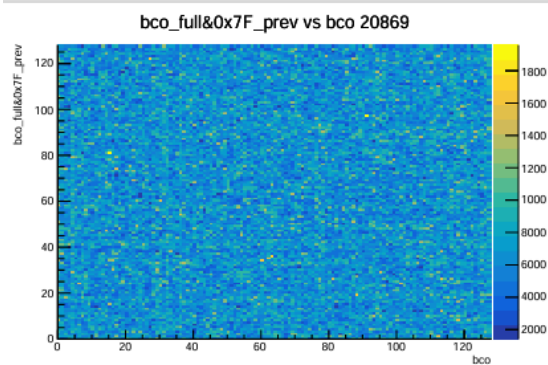
Mixup Multiplicity 20869



prev_allhit vs Nmixup



intt7



Mixup Multiplicity 20869

