

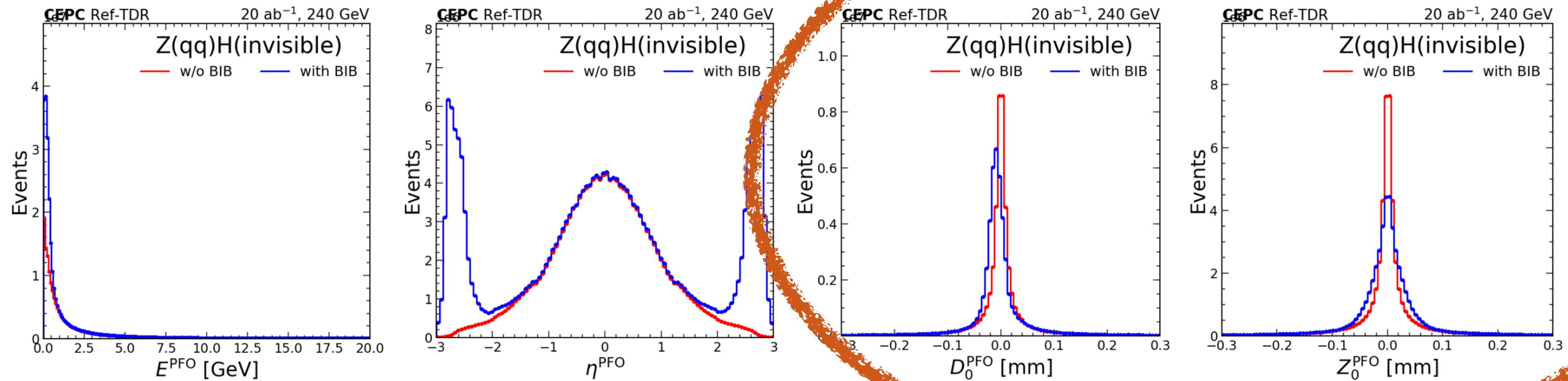
# Status update

Chenguang Zhang / 02Jul2025

# BIB for tracks

Geliang's previous talk [ 11Jun2025 ]

## Distributions

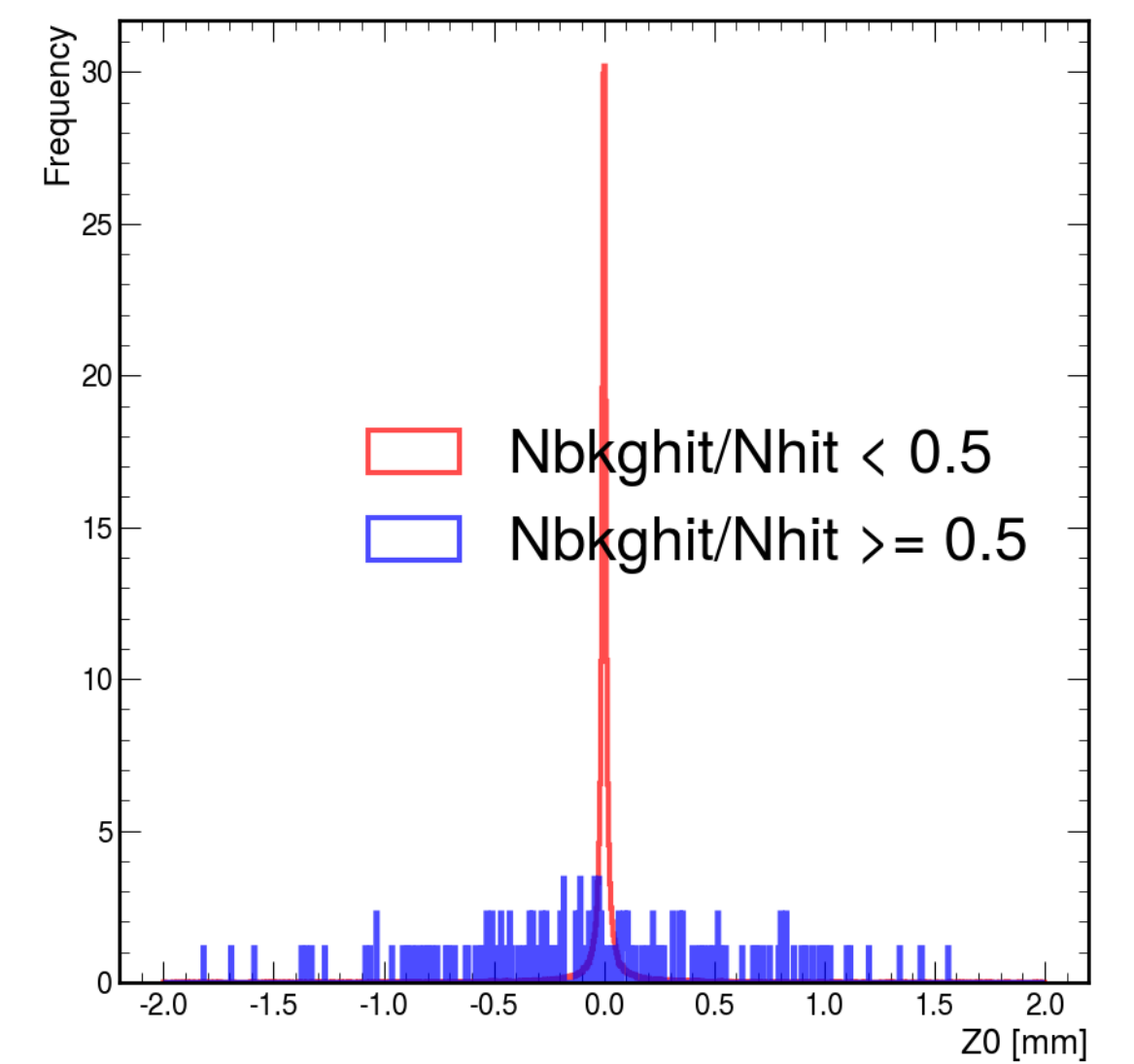
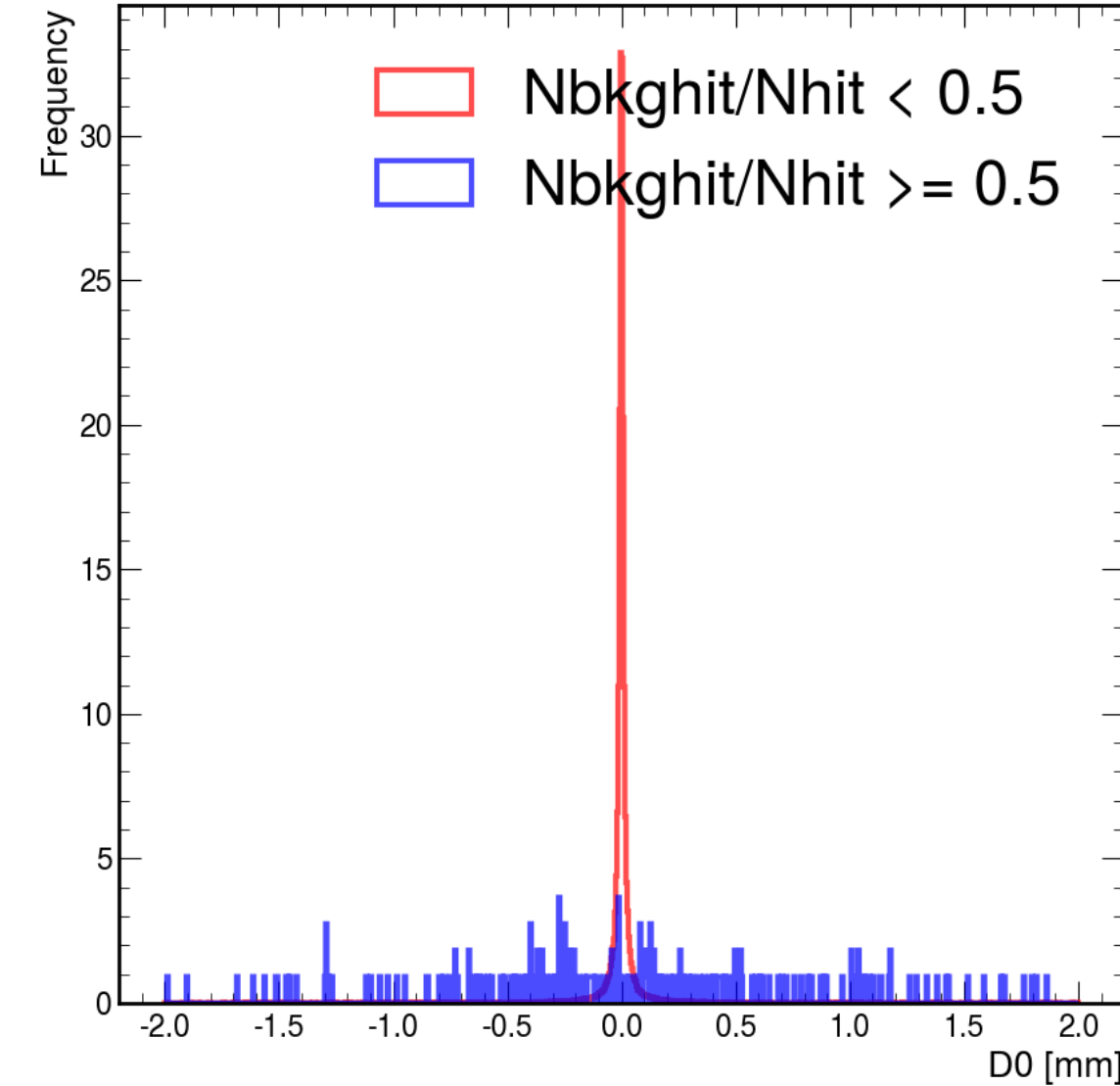
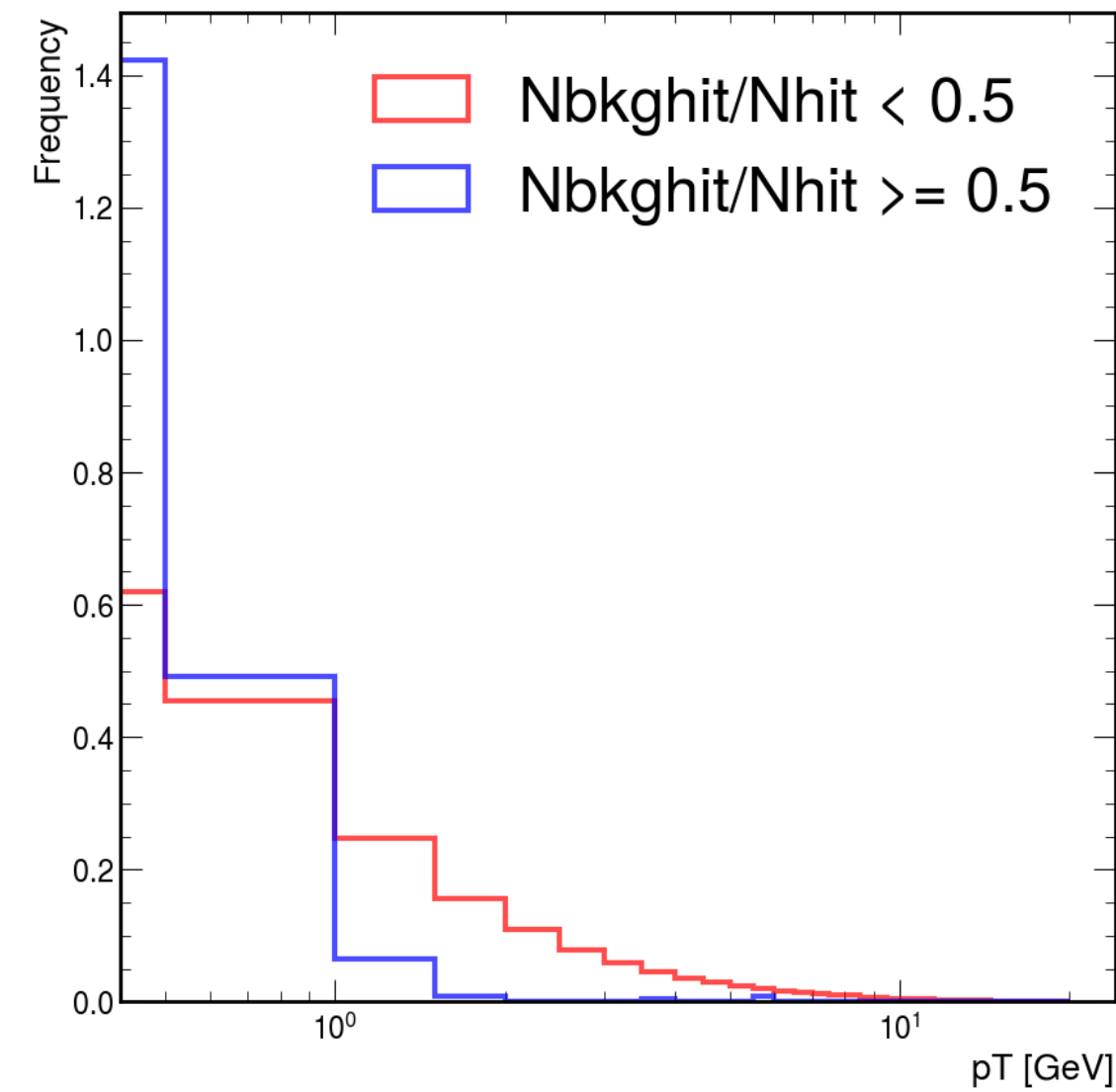
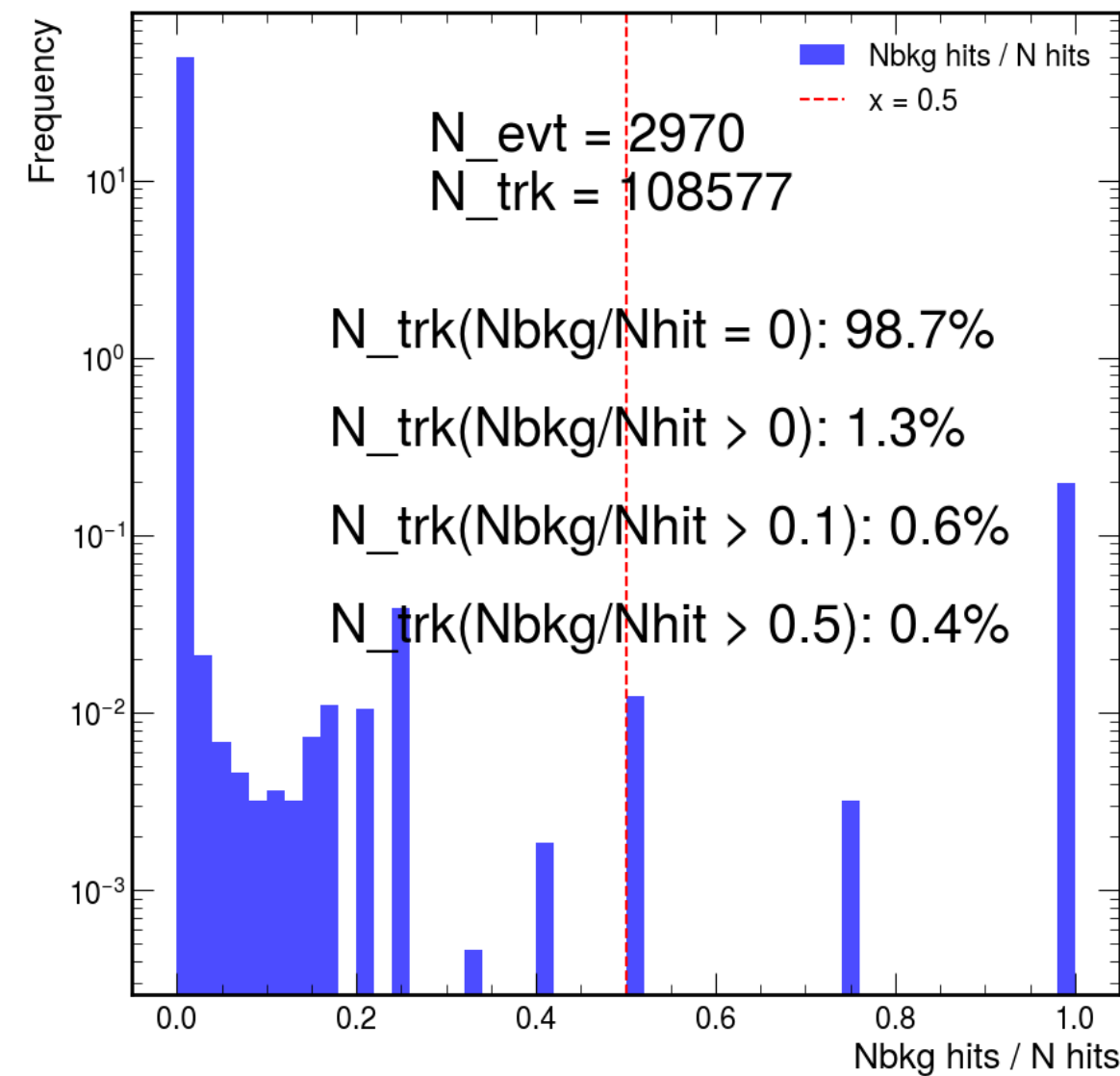


- At PFO level, BIB mostly lies in very low energy and high eta range
- Measurements of impact parameters are affected.

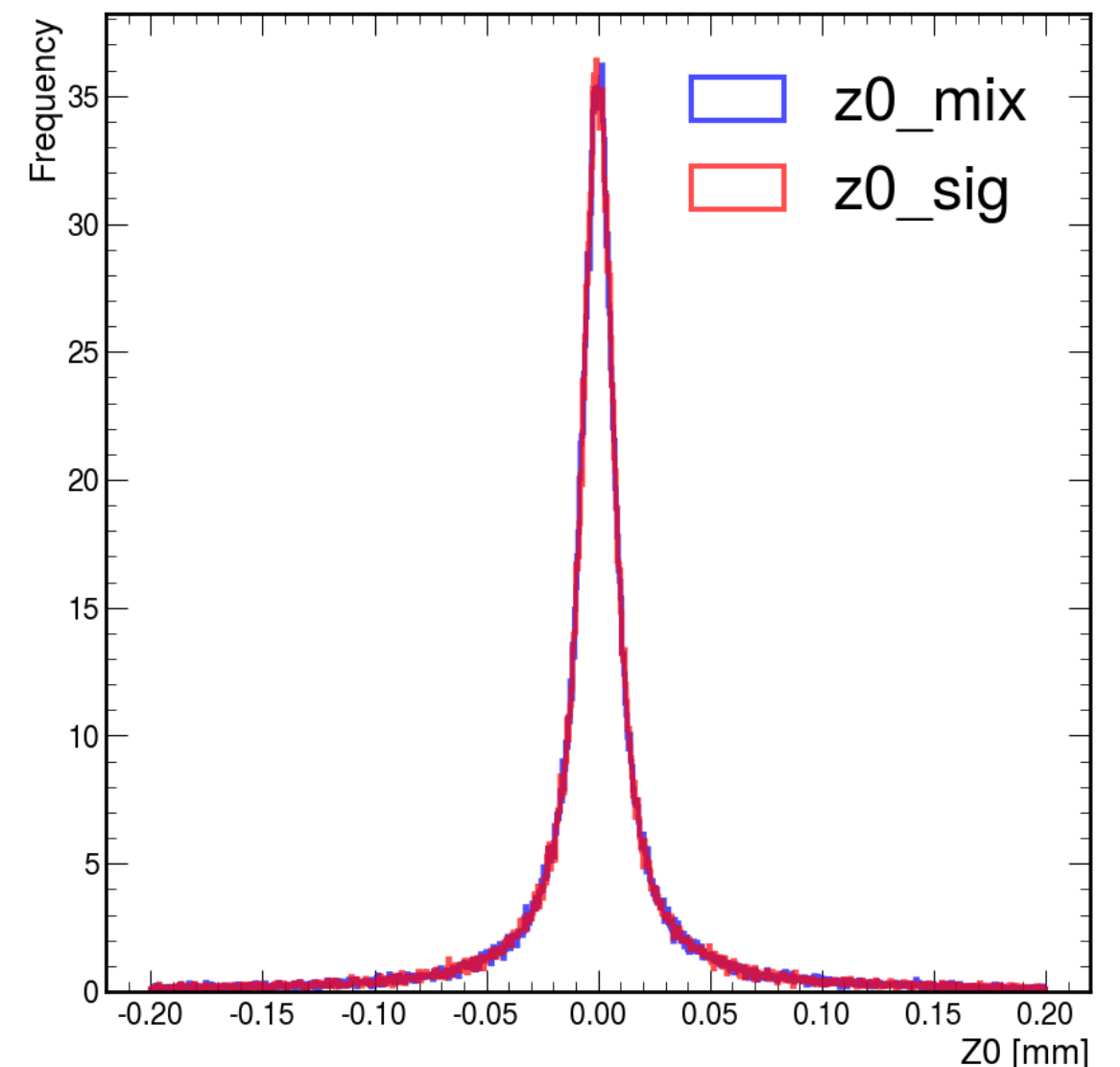
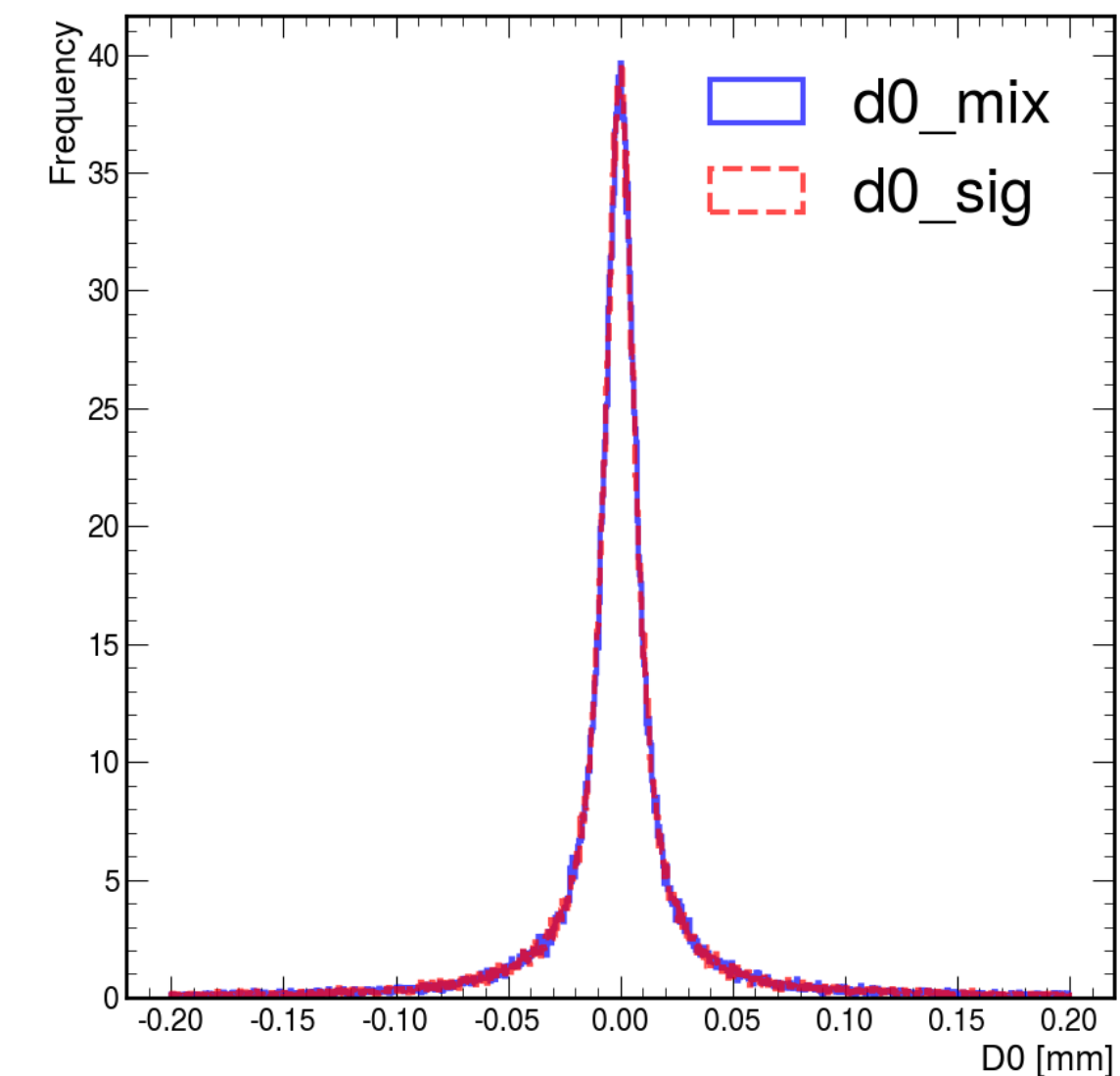
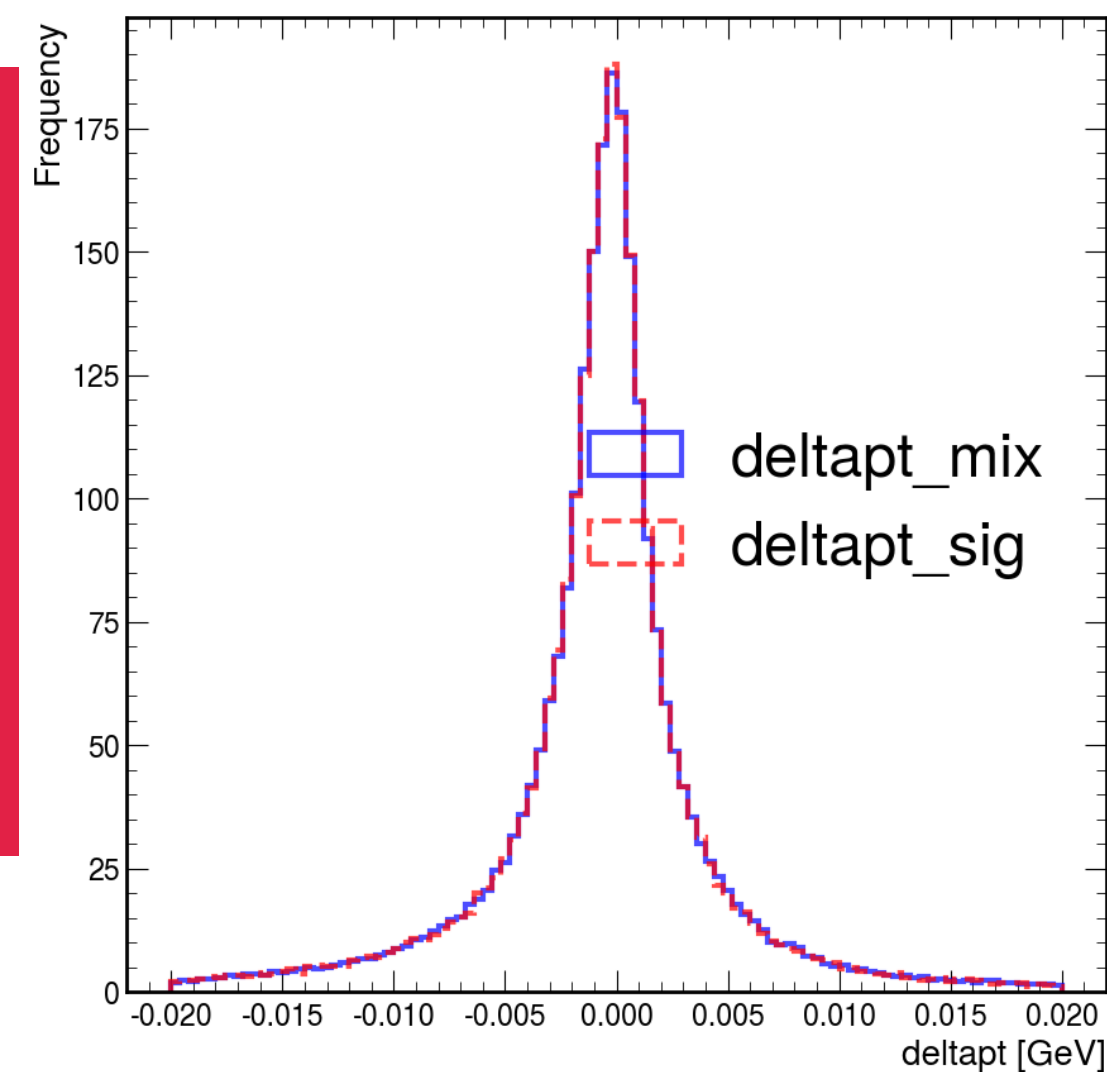
- qqHnn samples, **tdr.25.5.0**
- BIB samples, /cefs/higgs/shihy/tools/**CEPCSW\_TDR255**/CEPCSW/Test/Higgs
- Mixed by **tdr.25.6.0**

# BIB for tracks

## My previous talk [ 16May2025 ]

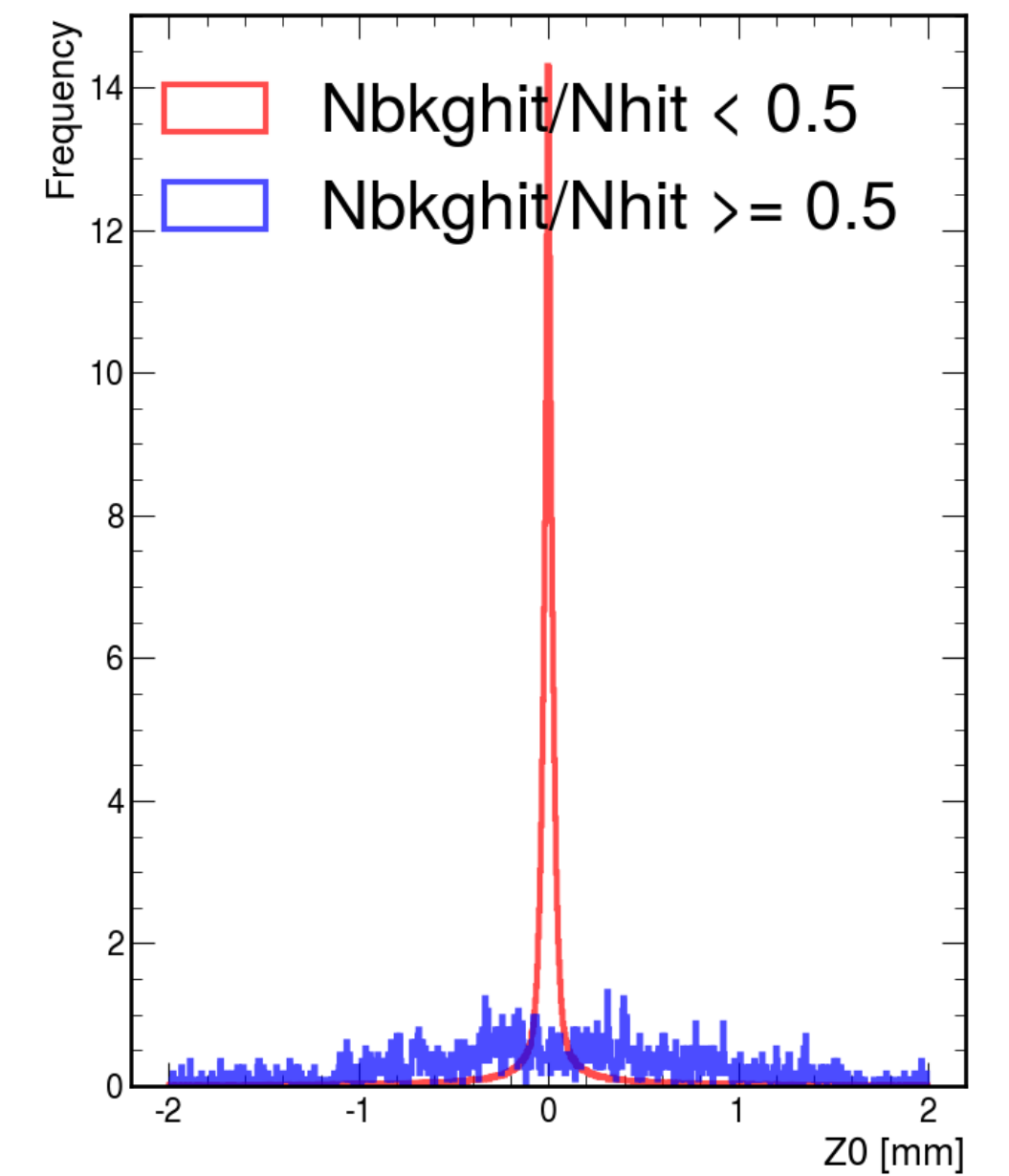
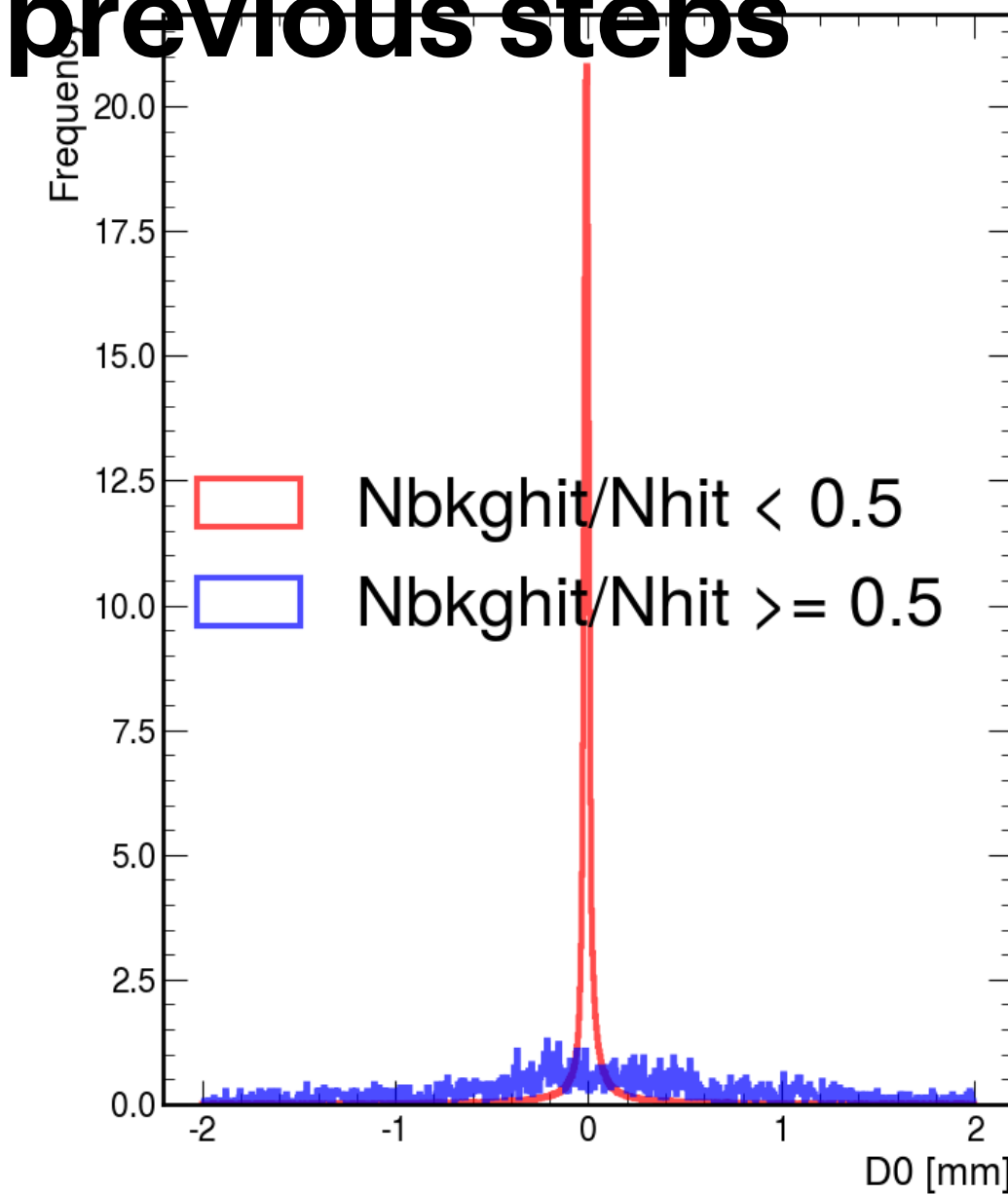
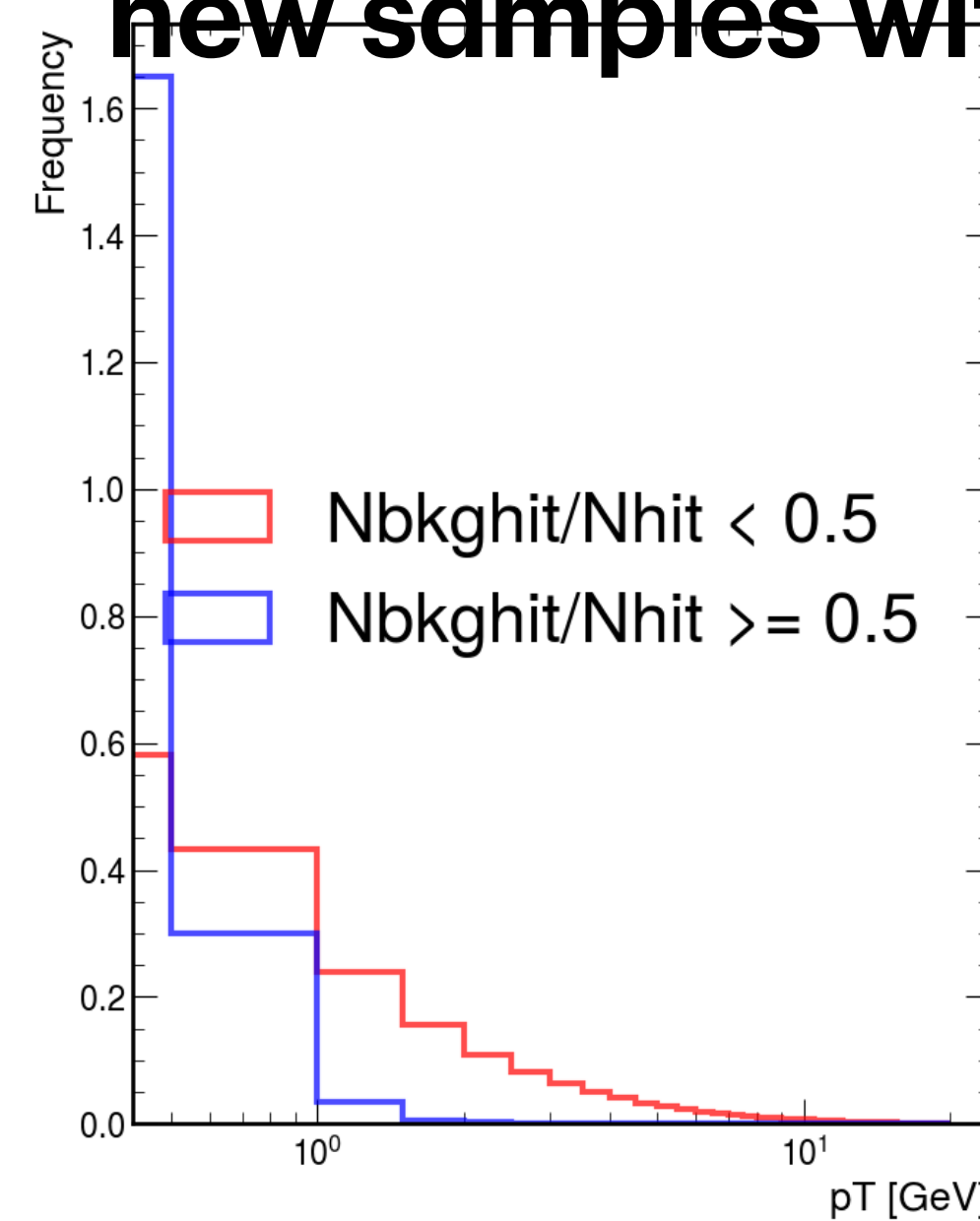
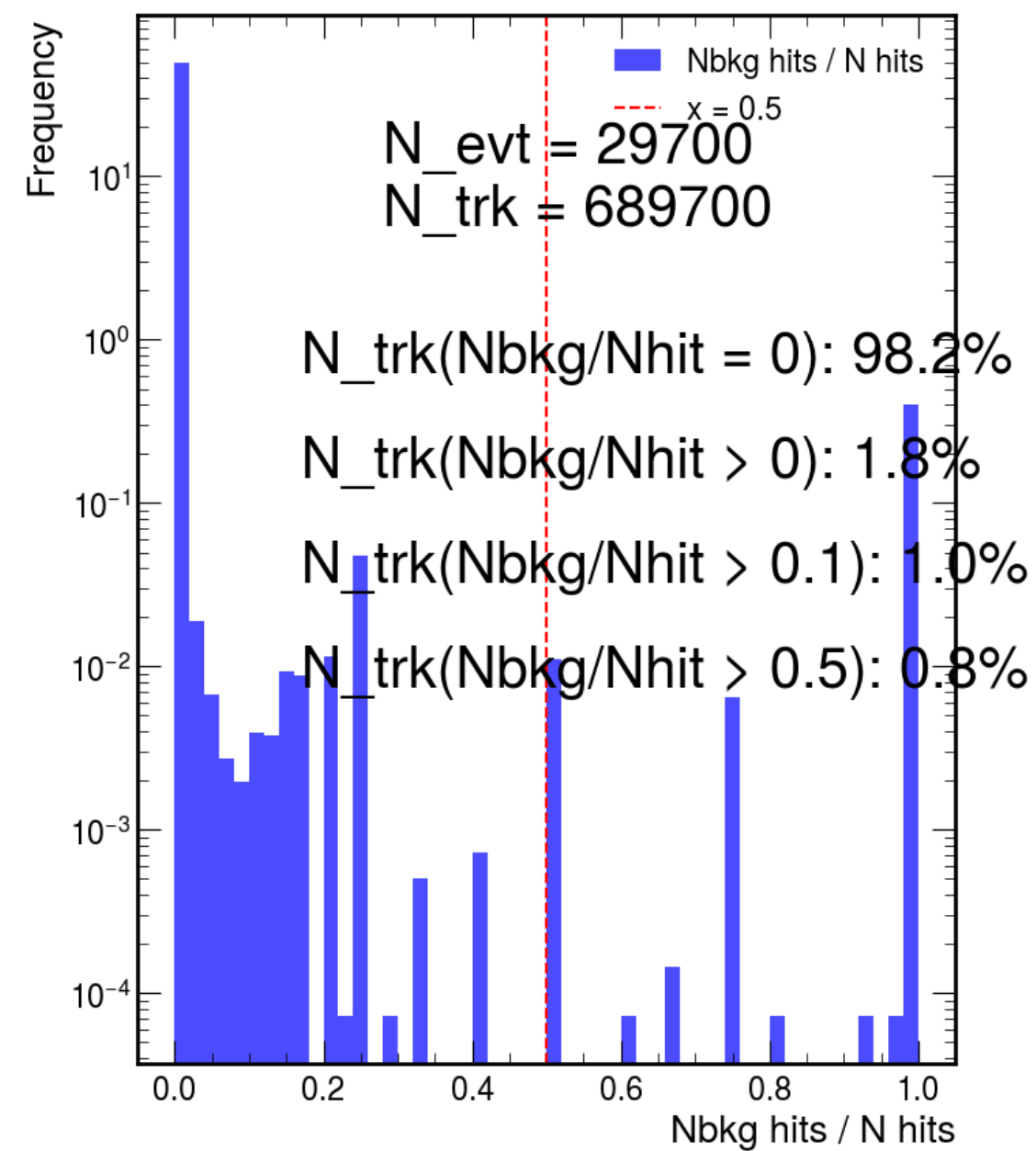


- nnHgg, **tdr.25.3.6**
- BIB samples: /cefs/higgs/shihy/  
tools/**CEPCSW\_TDR2536**/  
CEPCSW/Test/Higgs
- Signals: nnHgg
- Mixed by **the master branch**  
**11May2025**  
**[25.3.6+bkgmixalgo]**

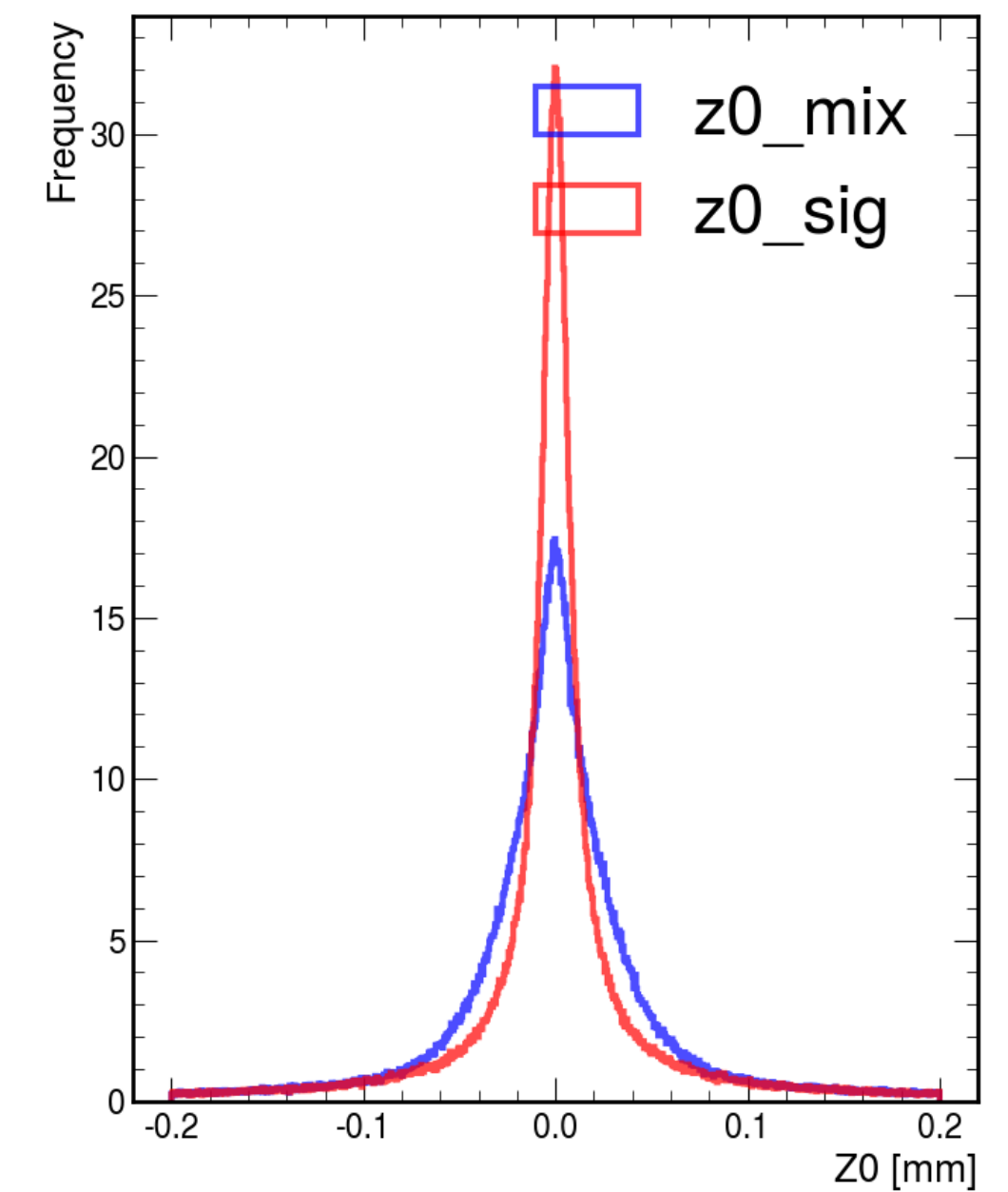
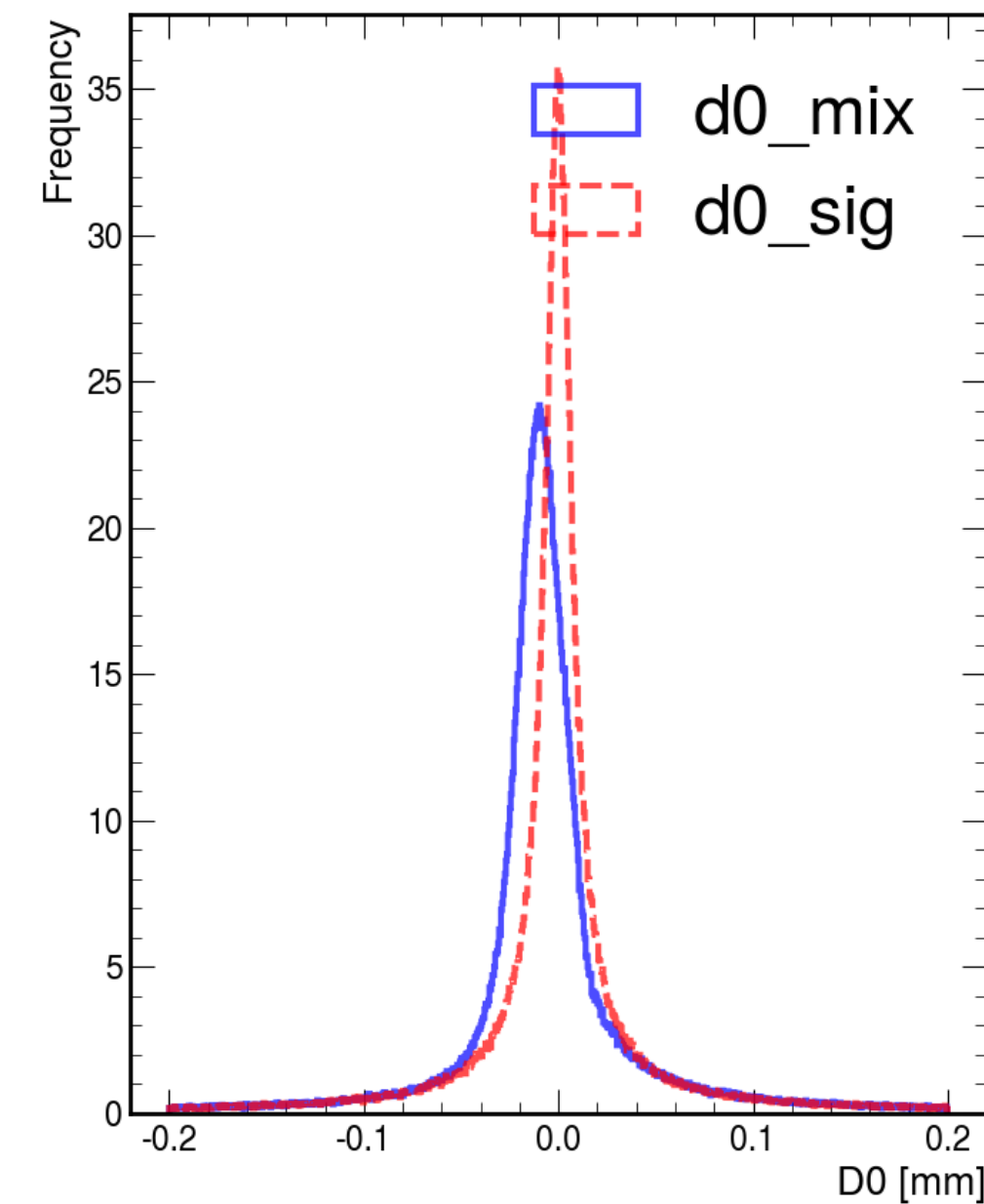
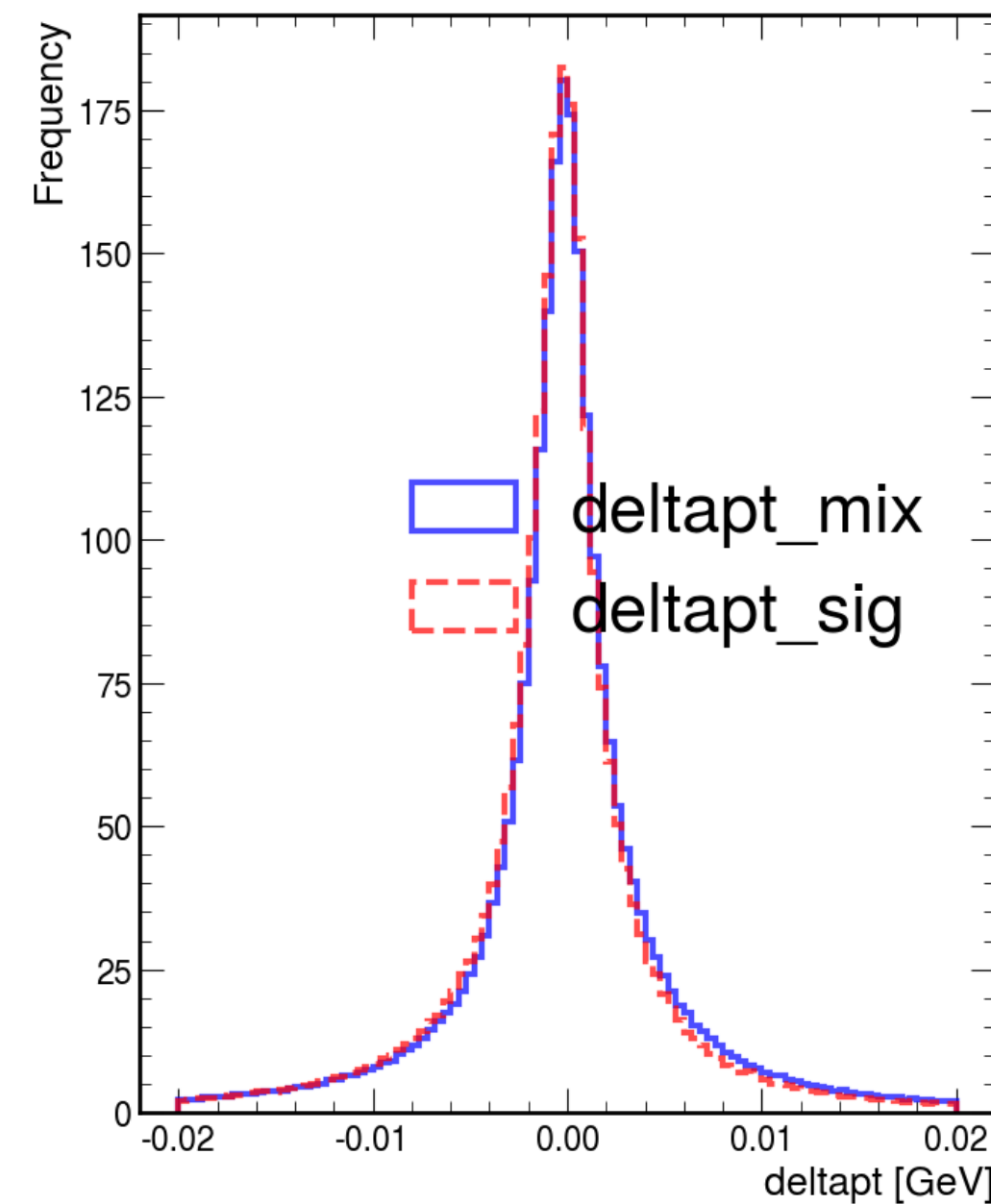


# BIB for tracks

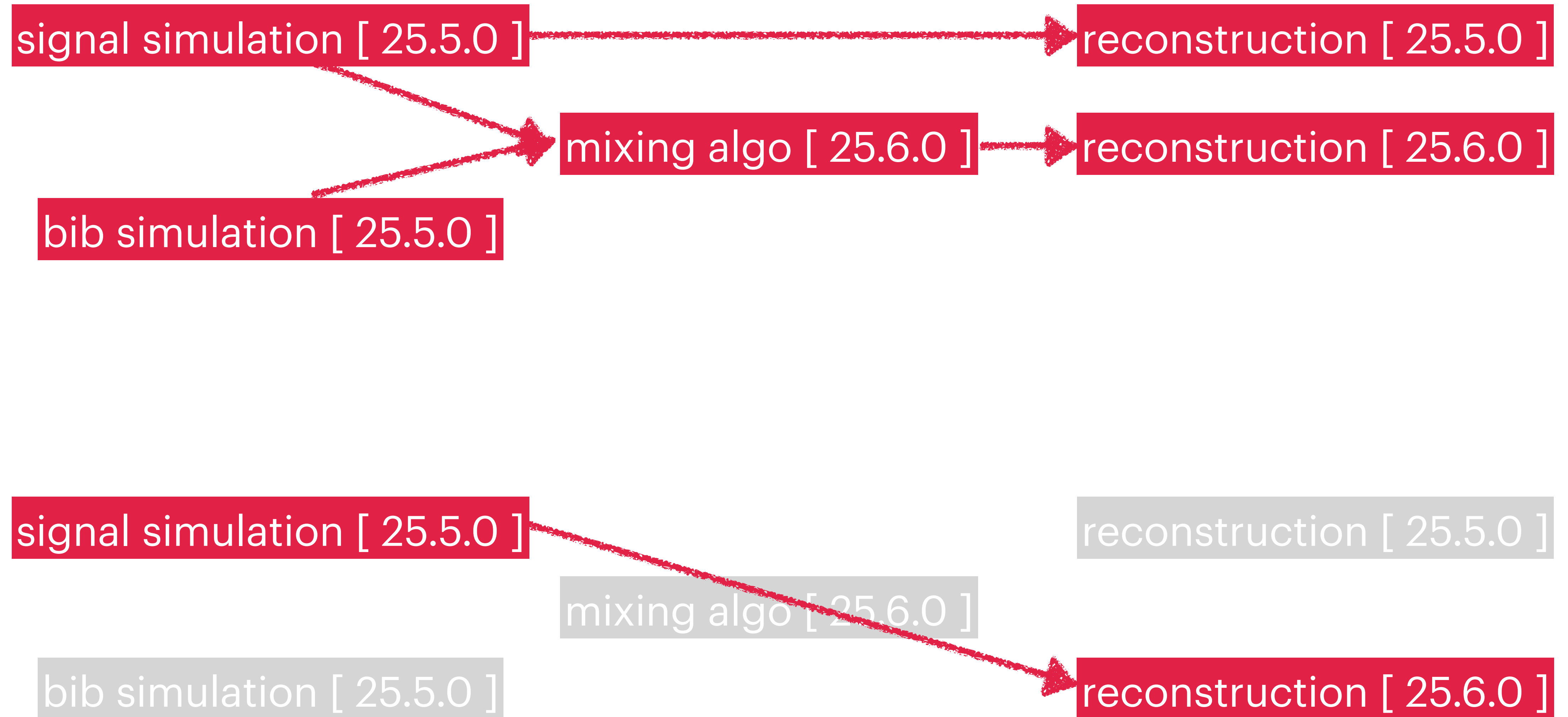
new samples with previous steps



- qqHnn samples, **tdr.25.5.0**
- BIB samples, /cefs/higgs/shihy/tools/**CEPCSW\_TDR255**/CEPCSW/Test/Higgs
- Mixed by **tdr.25.6.0**

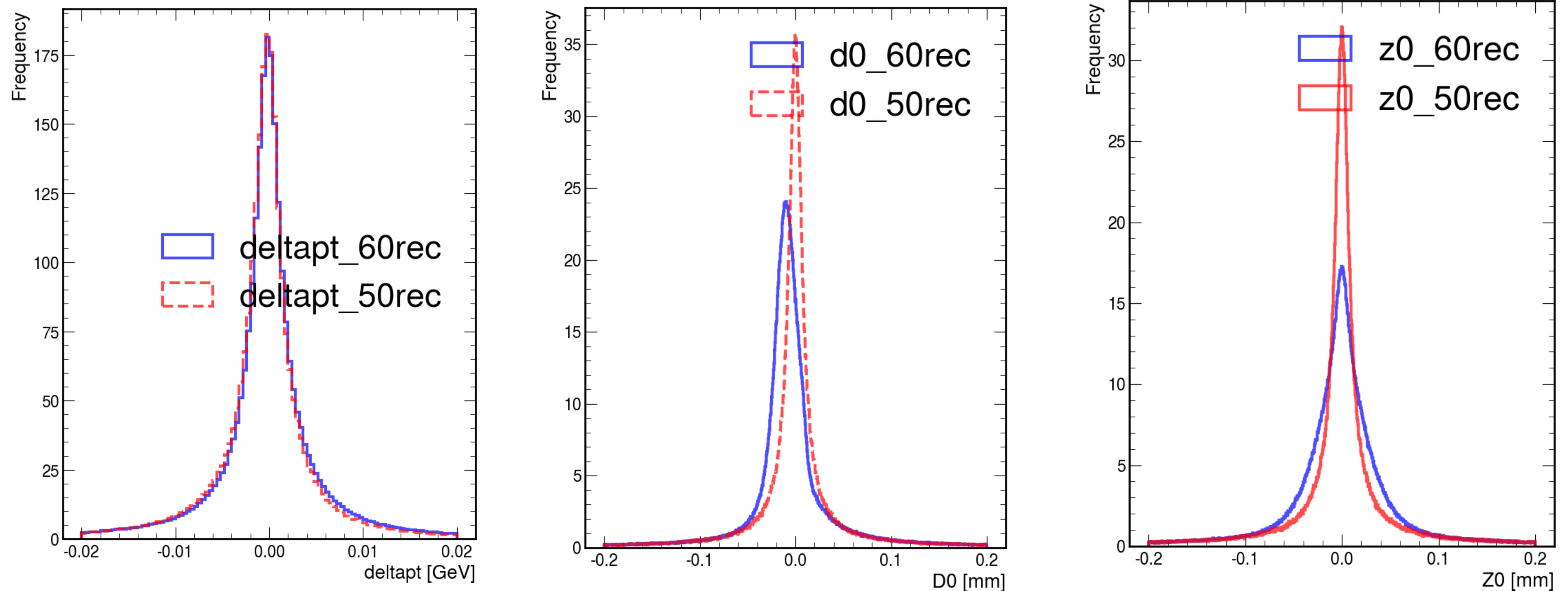


# BIB for Track





# BIB for tracks [5.0 sim + 6.0 rec]



NO BIB

25.5.0 simulation + 25.5.0 reconstruction

25.5.0 simulation + 25.6.0 reconstruction

# Summary

- Still expect BIB does not impact tracking, but more work needs to be done
- The conclusion regarding the missing bunch crossing in calorimeter remains valid
- Some new functions are only supported in the new SW release, while the performance of the new needs to be evaluated and new samples are not yet available