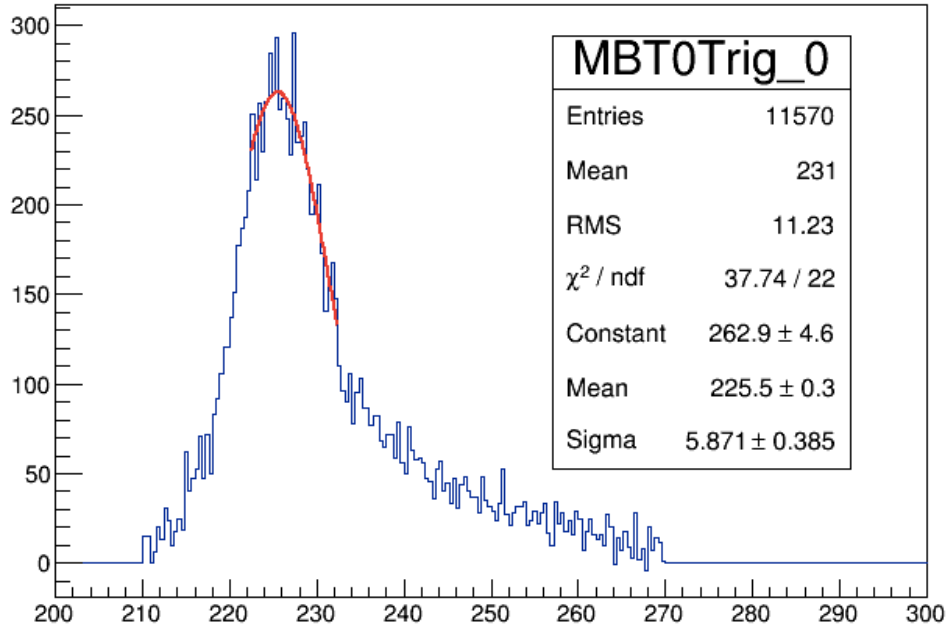
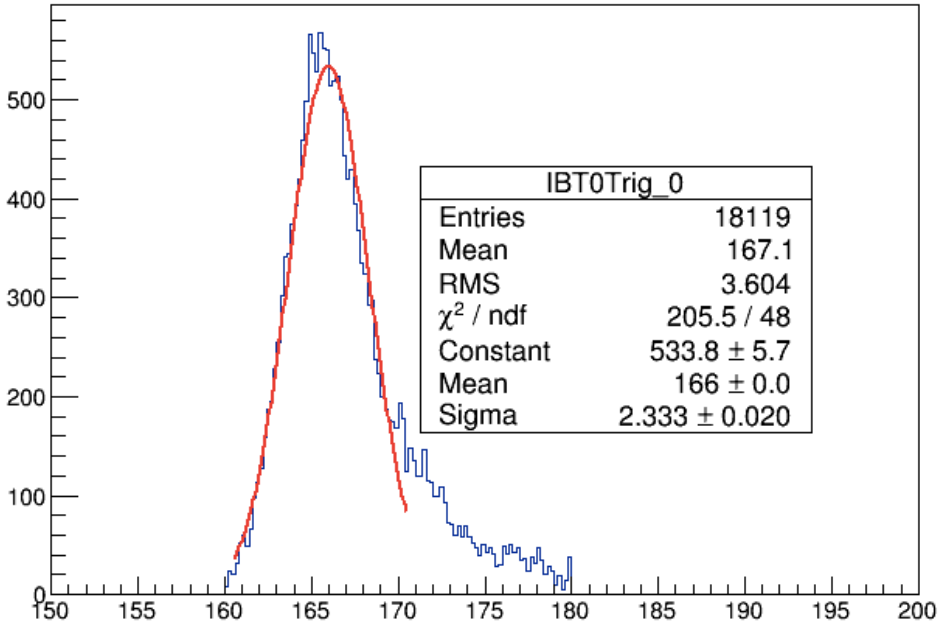
Report_160920

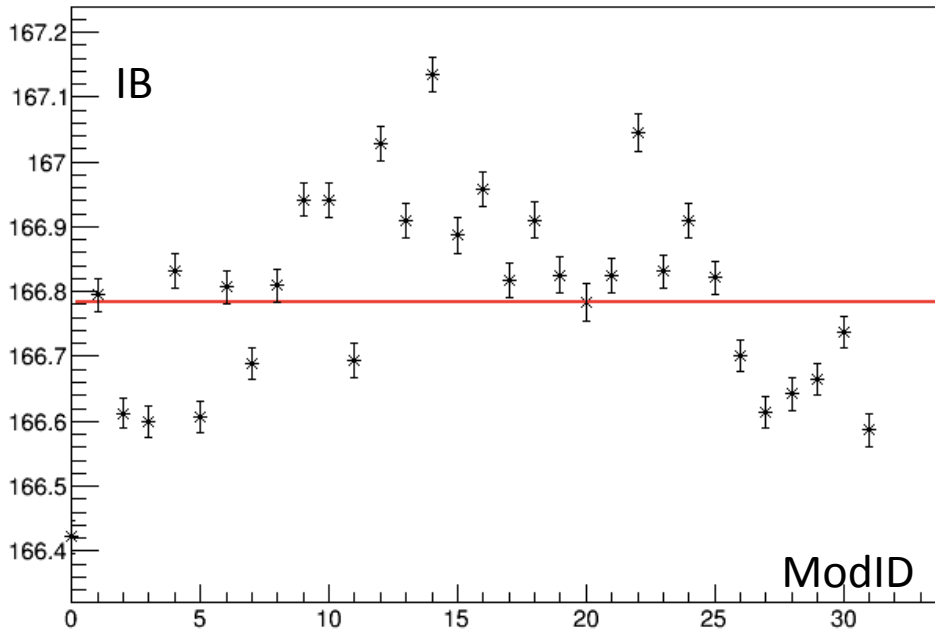
Get timing distribution

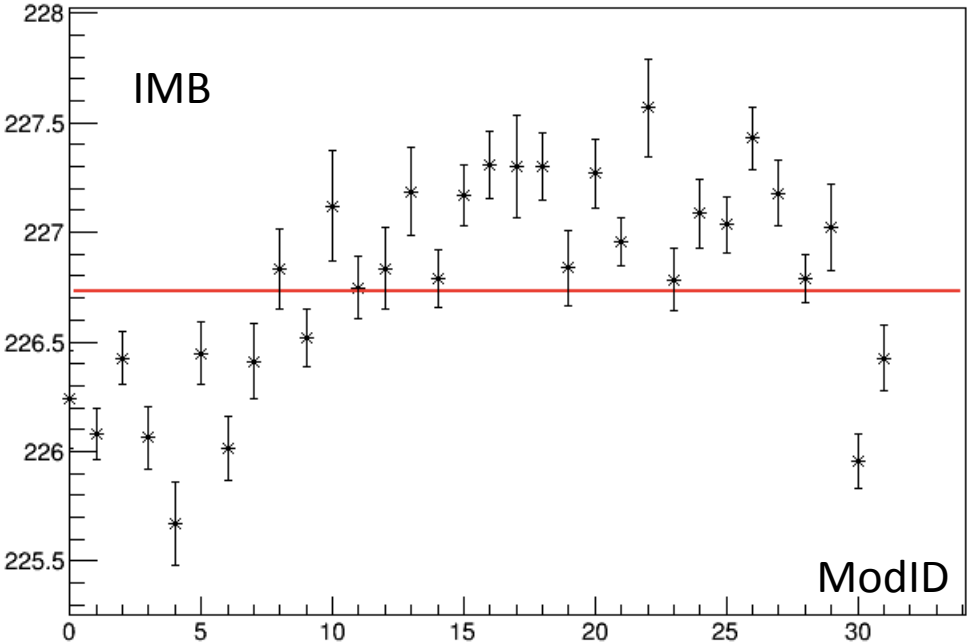
- Mean time
  - $(Time_{Up}+Time_{Down})/2$
- Trigger window distribution – Accidental window distribution
- Fitted with gaussian distribution

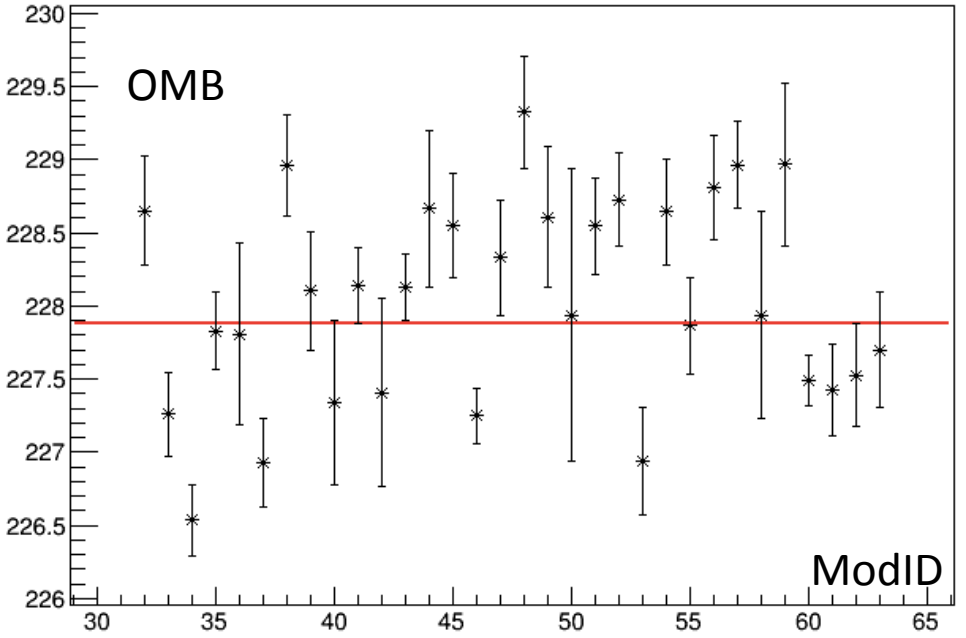




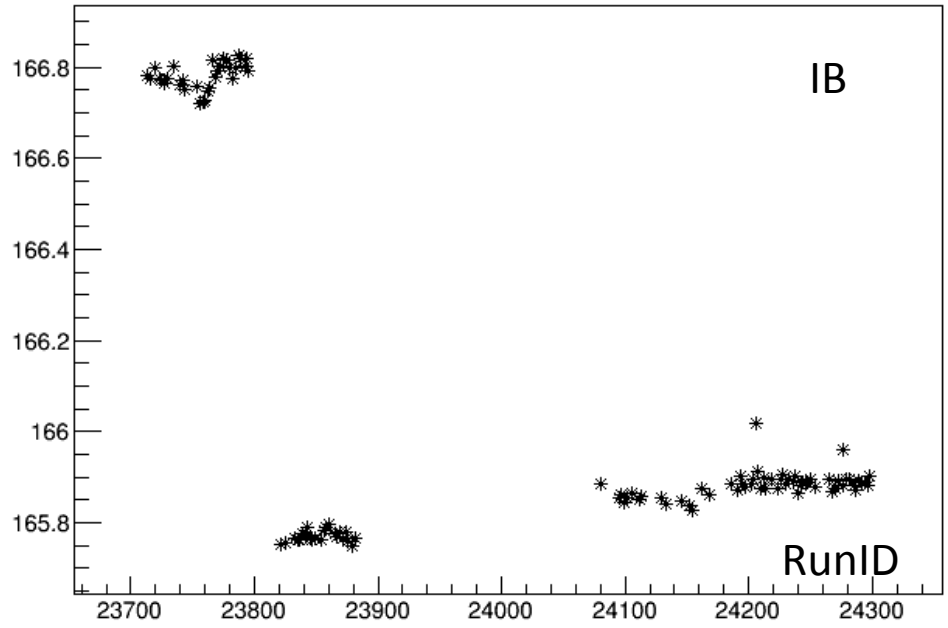
Module by module

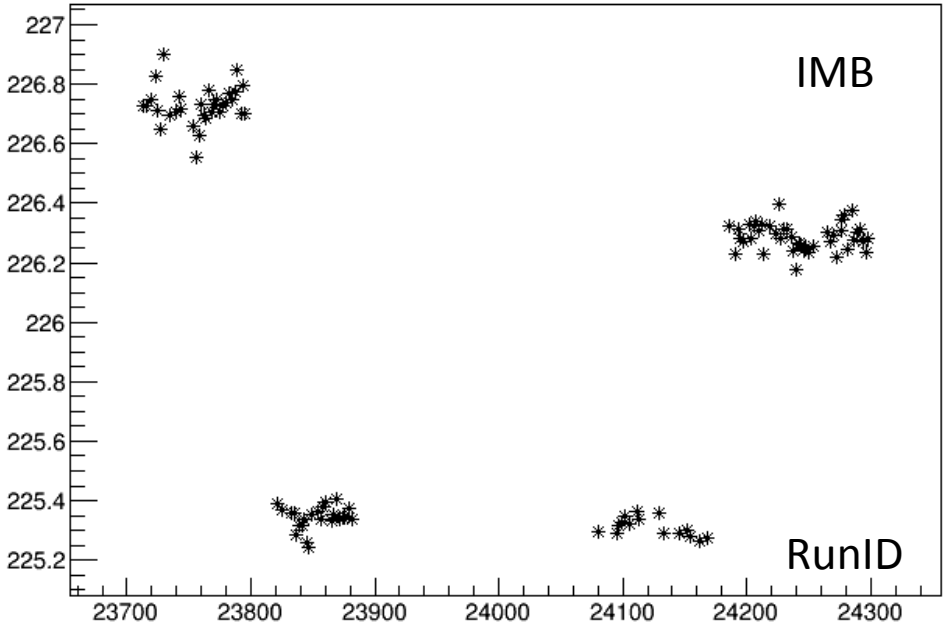


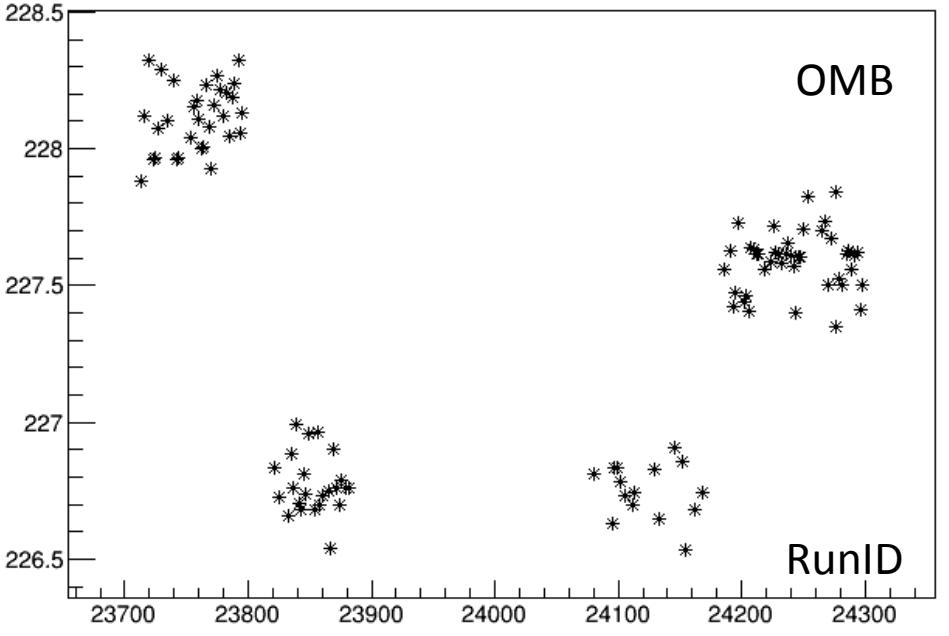




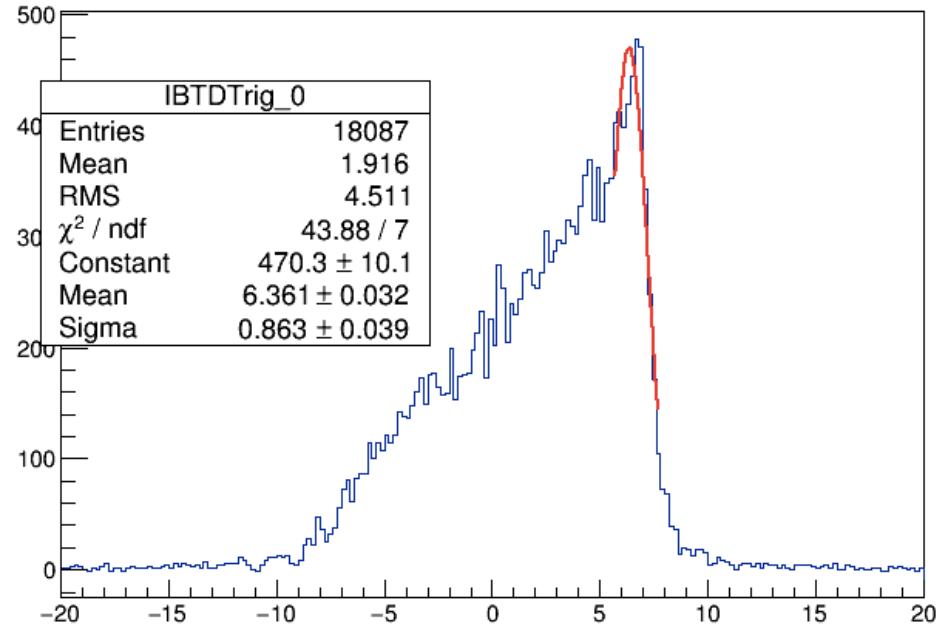
Run by run

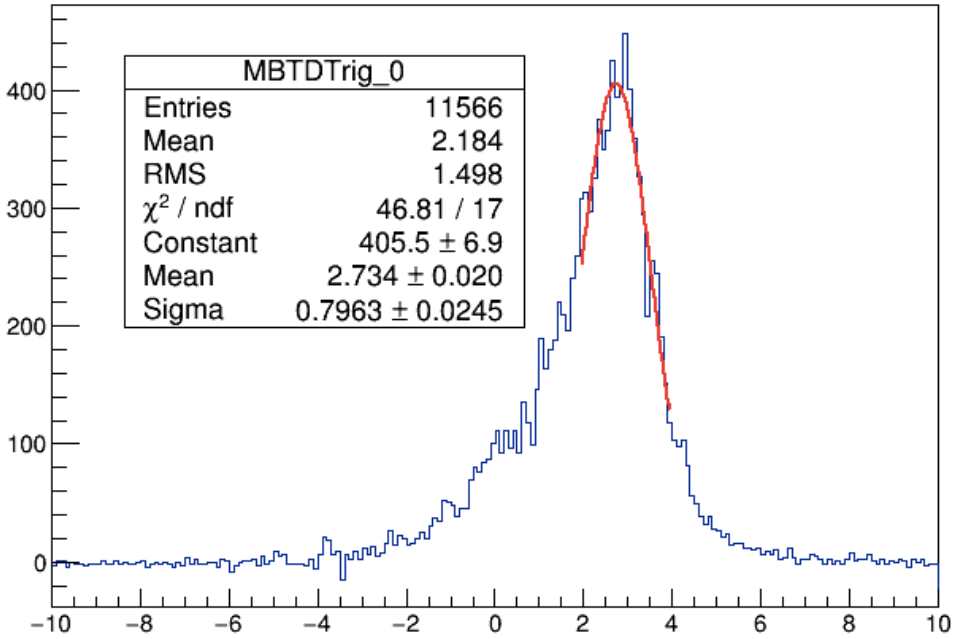

IB
RunID
166.8
166.6
166.4
166.2
166
165.8
23700
23800
23900
24000
24100
24200
24300


IMB
RunID
227
226.8
226.6
226.4
226.2
226
225.8
225.6
225.4
225.2
23700
23800
23900
24000
24100
24200
24300

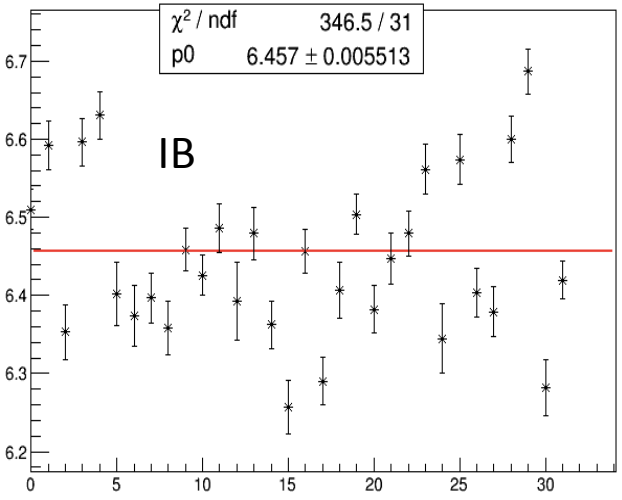

OMB
RunID
228.5
228
227.5
227
226.5
23700
23800
23900
24000
24100
24200
24300

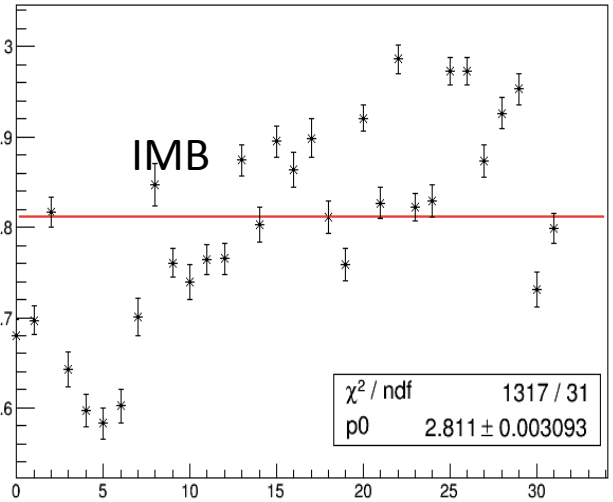
Hit position distribution (timing difference)

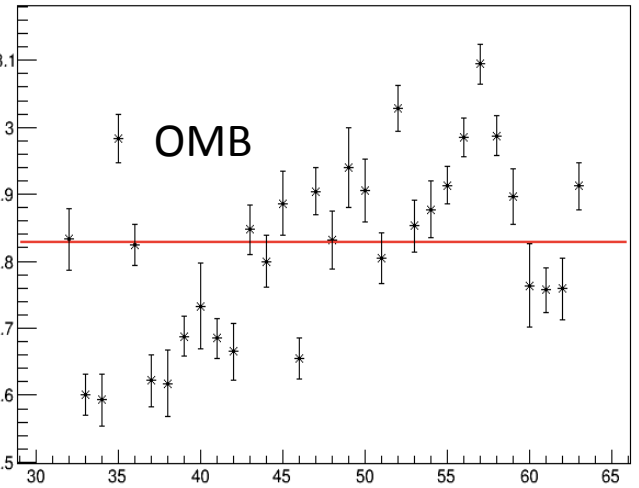




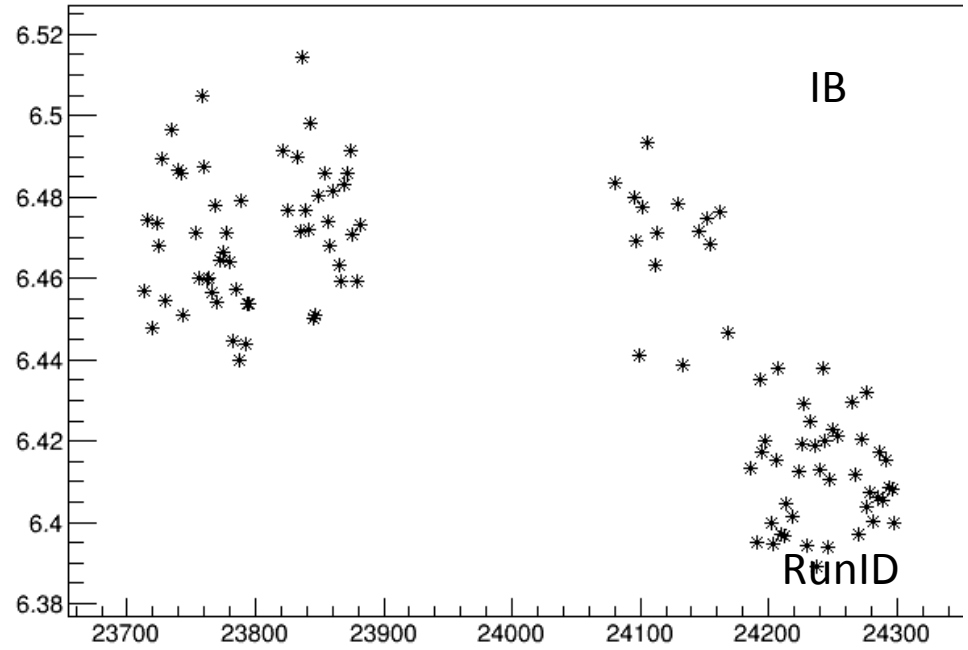
Module by module

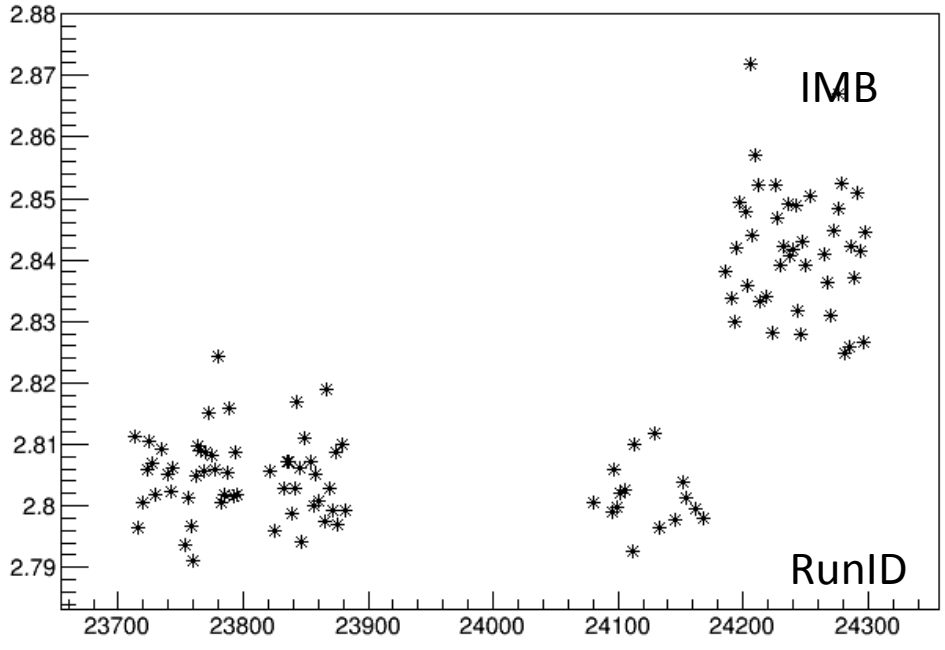


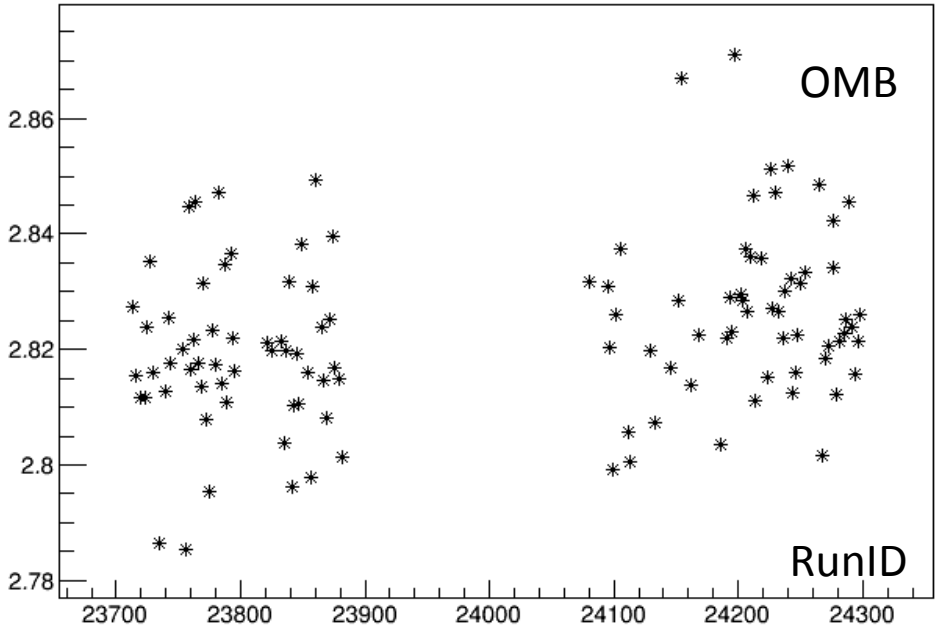




Hit position (run by run)



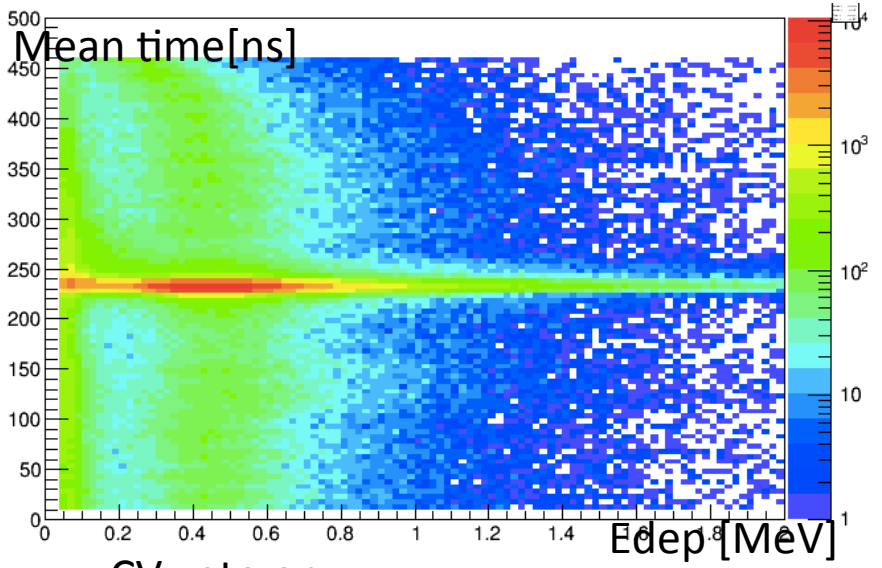




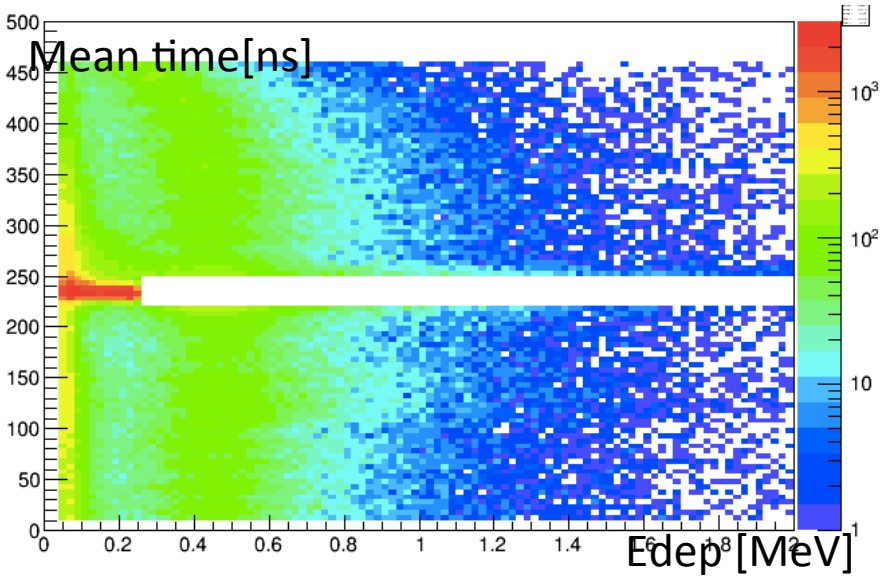
5g+1g from normalization data

- Online-veto detectors
  - MCC, CC03, CV, MB (run62)
- Detector variables
  - Same as MTConvertorDetector
    - Both end readout detector (CC03, CV)
      - Time : mean time of both end
      - Energy : sum of both end
    - NCC
      - Time : PMT Time
      - Energy : PMT Energy
- Veto Condition
  - NCC
    - Timing window : [170,210]
    - Energy threshold : 2MeV
    - Use common channel only
  - CC03
    - Timing window : [205,245]
    - Energy threshold : 3MeV
  - CV
    - Timing window : [220,250]
    - Energy threshold : 0.25MeV

CV veto off

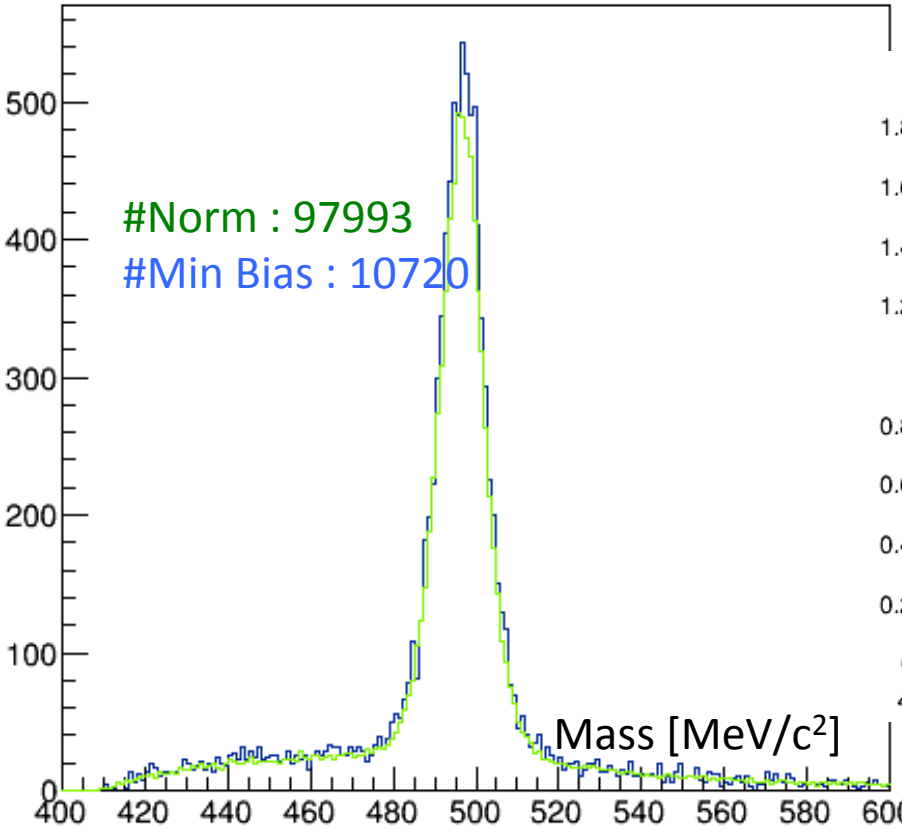


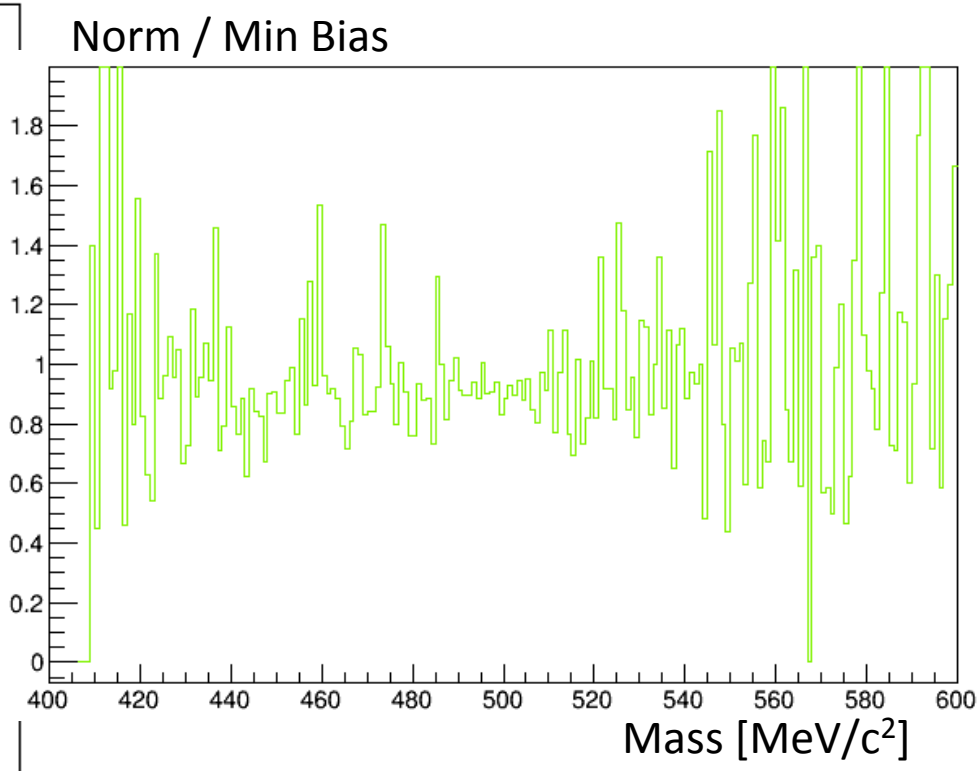
CV veto on



Norm vs Min bias

- CBAR energy threshold in online-veto
  - ~30MeV
  - Select events which have CBAR energy deposit less than 25MeV only.





Accidental hit in MC

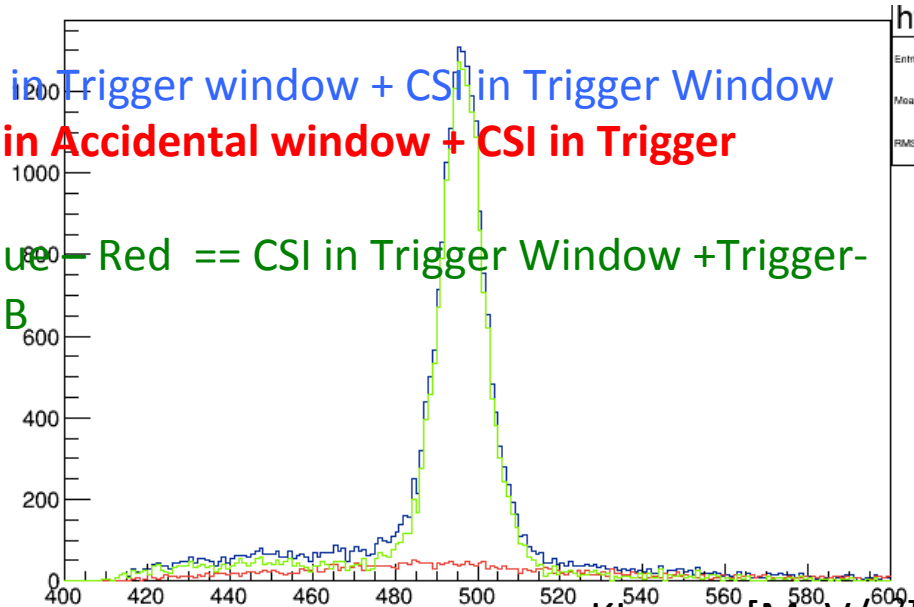
Run62 data

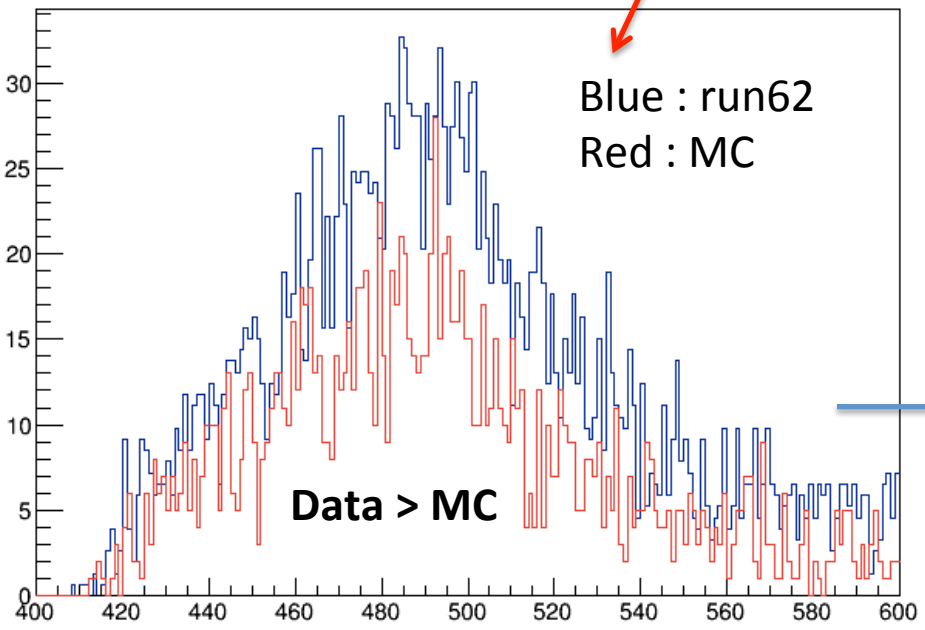
Check effect of MB accidental in MC

Blue : MB in Trigger window + CSI in Trigger Window

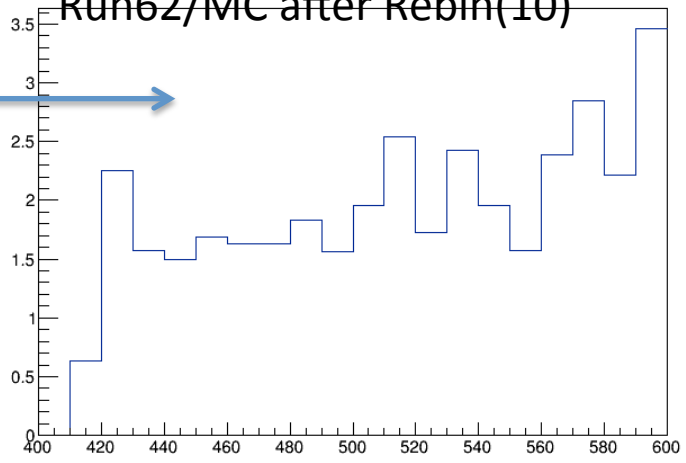
Red : MB in Accidental window + CSI in Trigger Window

Green : Blue – Red == CSI in Trigger Window +Trigger-related MB



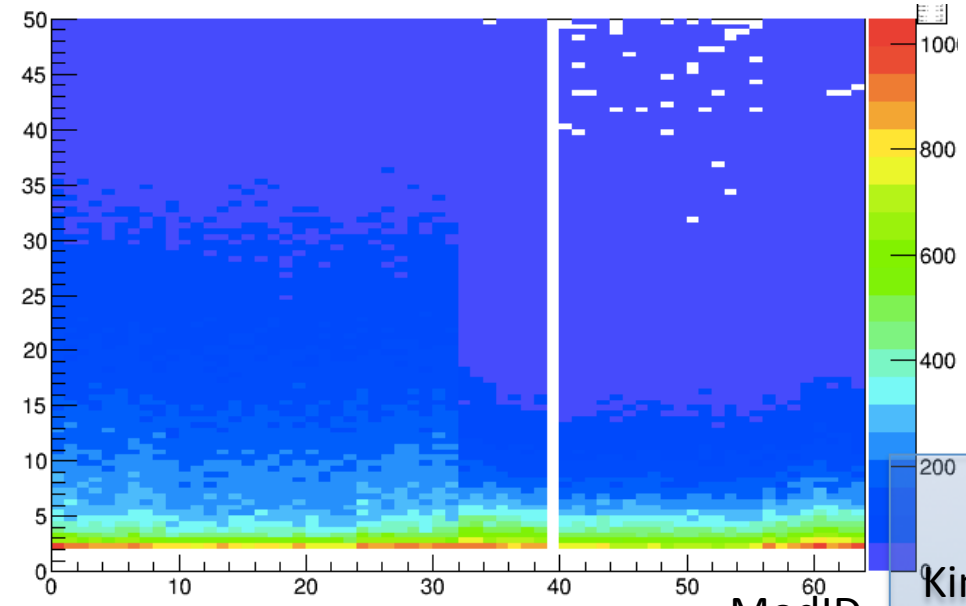


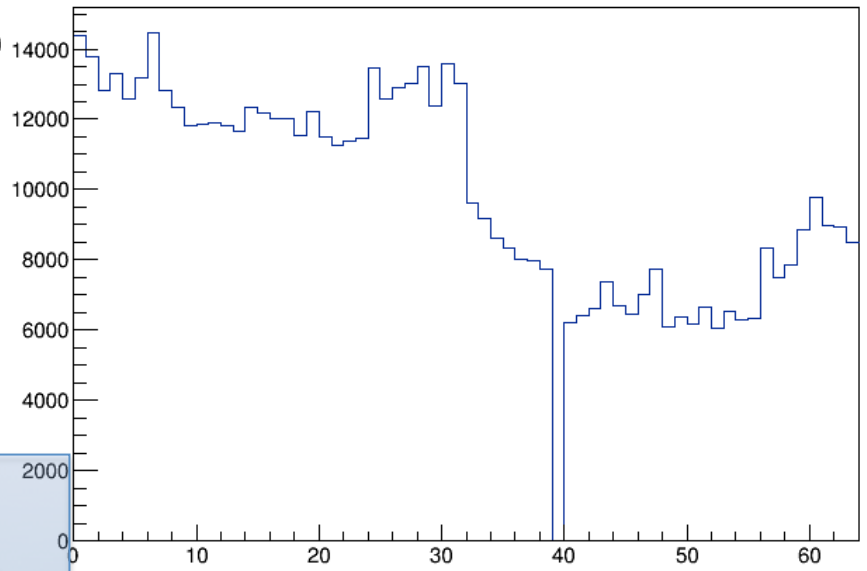
Run62/MC after Rebin(10)



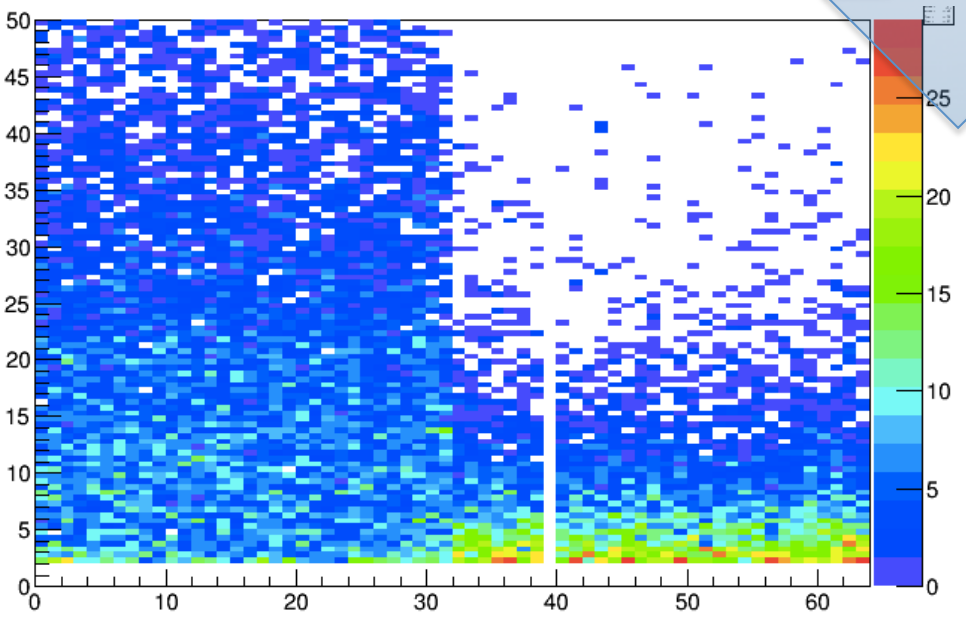
CBAR energy deposit [MeV]

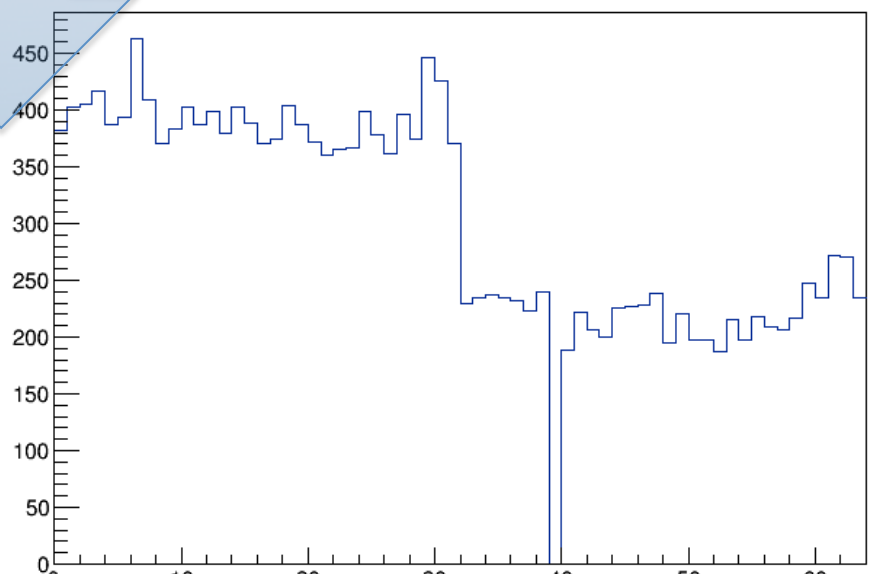
#counts



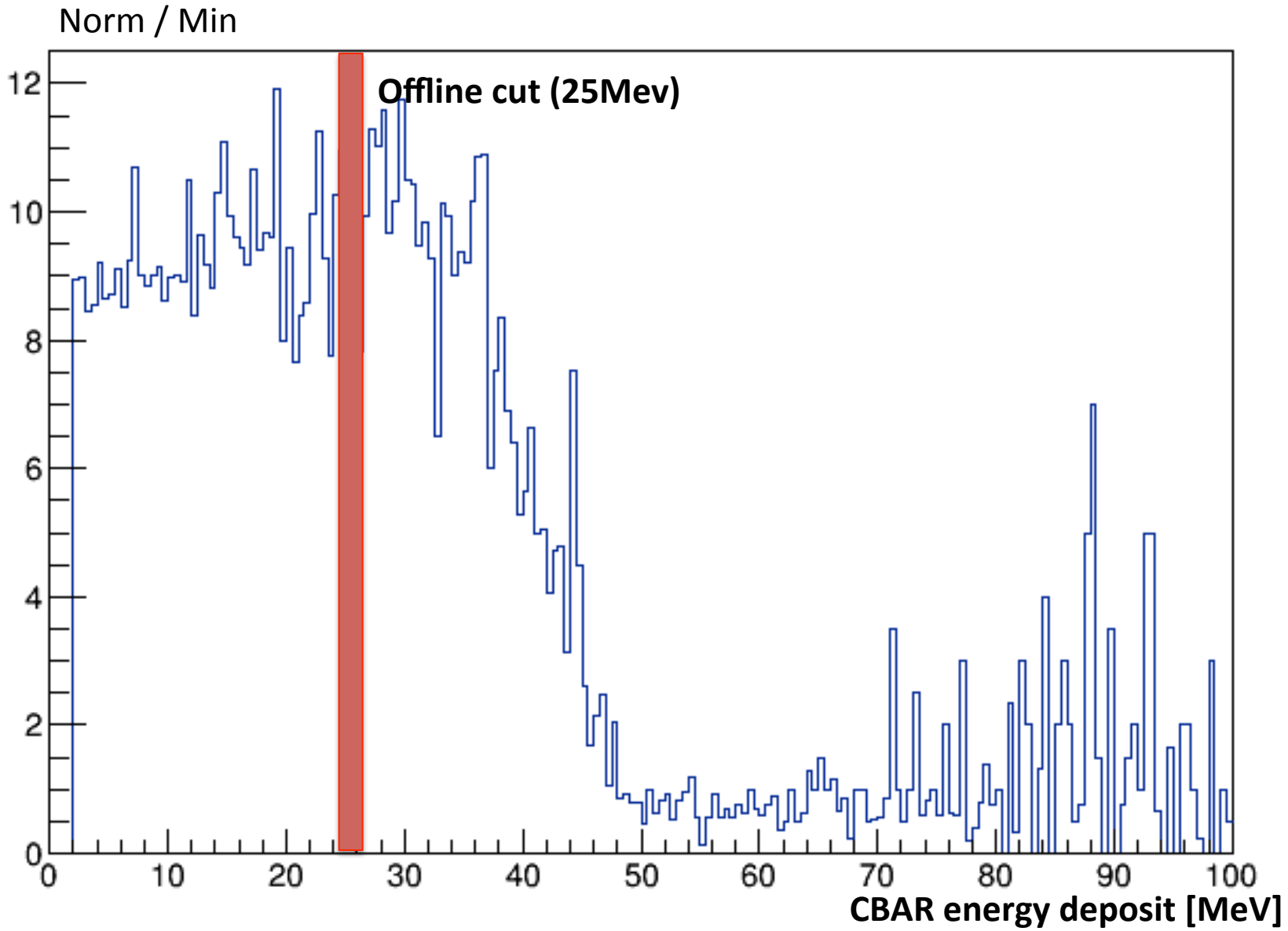


Kin. Cut





CBAR energy deposit



Mass resolution