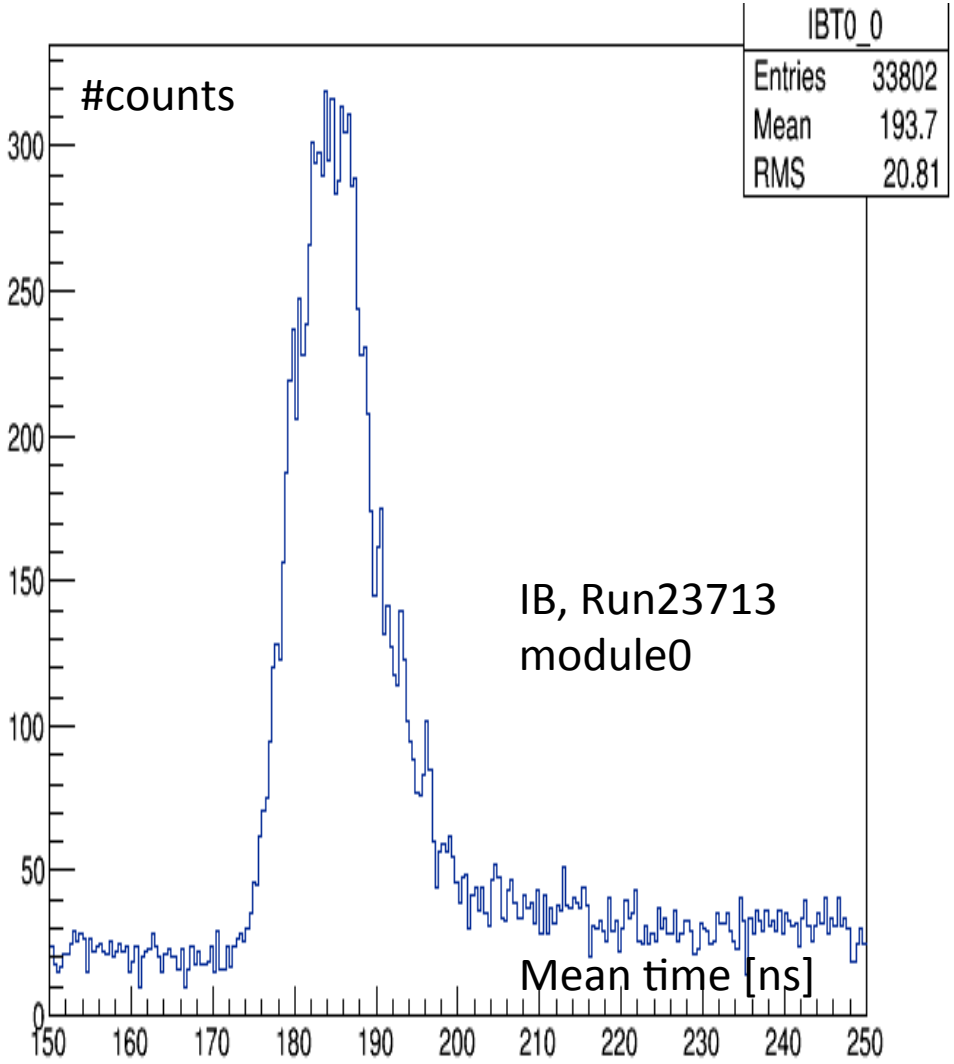
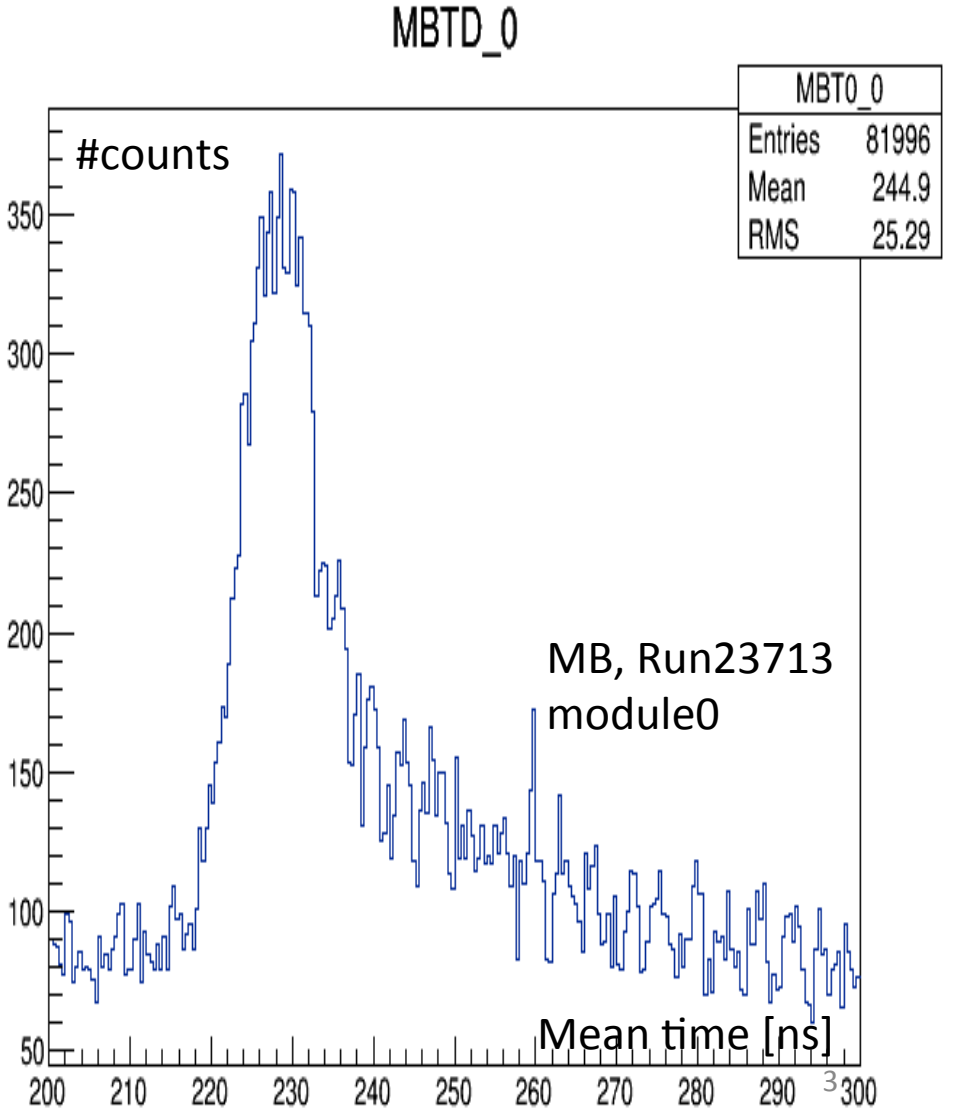
Report 160913

Check list

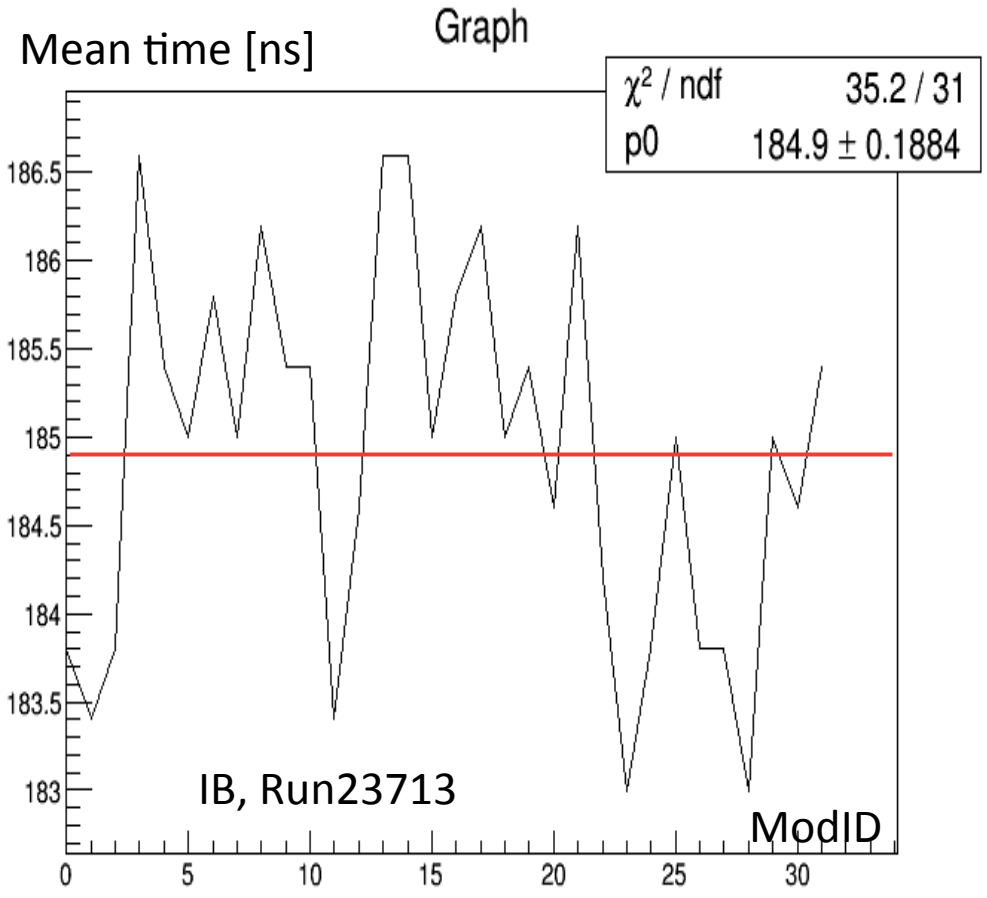
- Parameter
  - Mean time = (TimeUp+TimeDown)/2
  - Module by module (1)
  - Get mean value
    - Run by run (2)
- Data
  - Select SpillOn && Normalization trigger

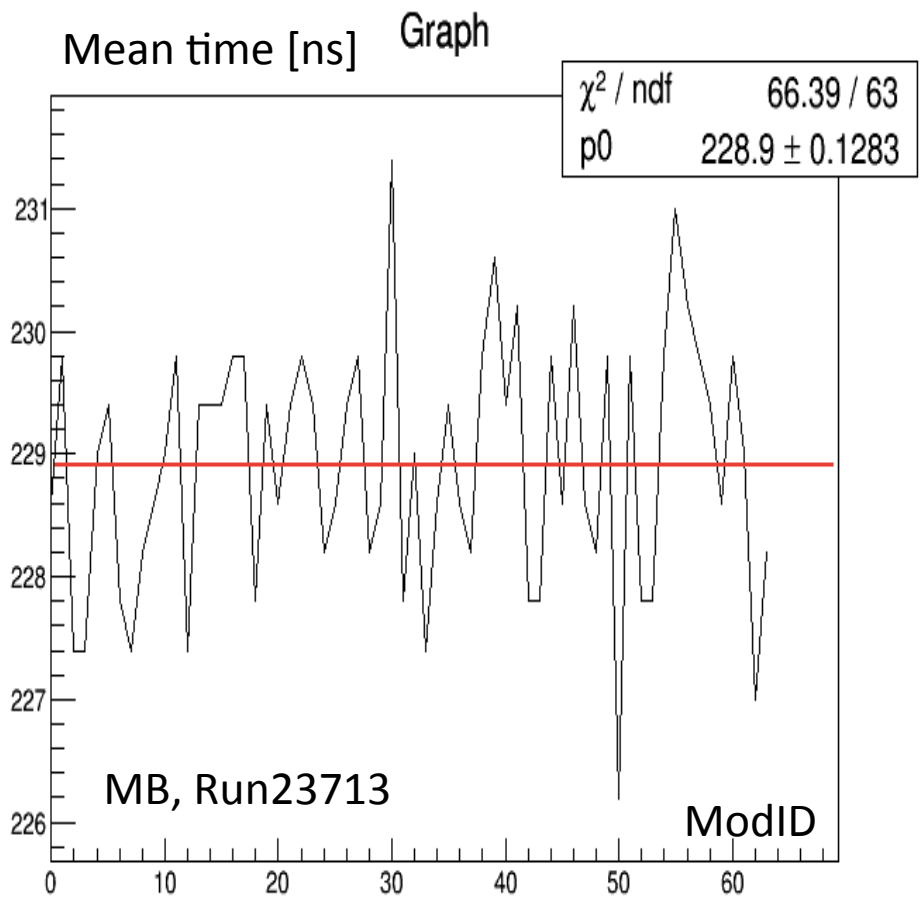
Mean time distribution



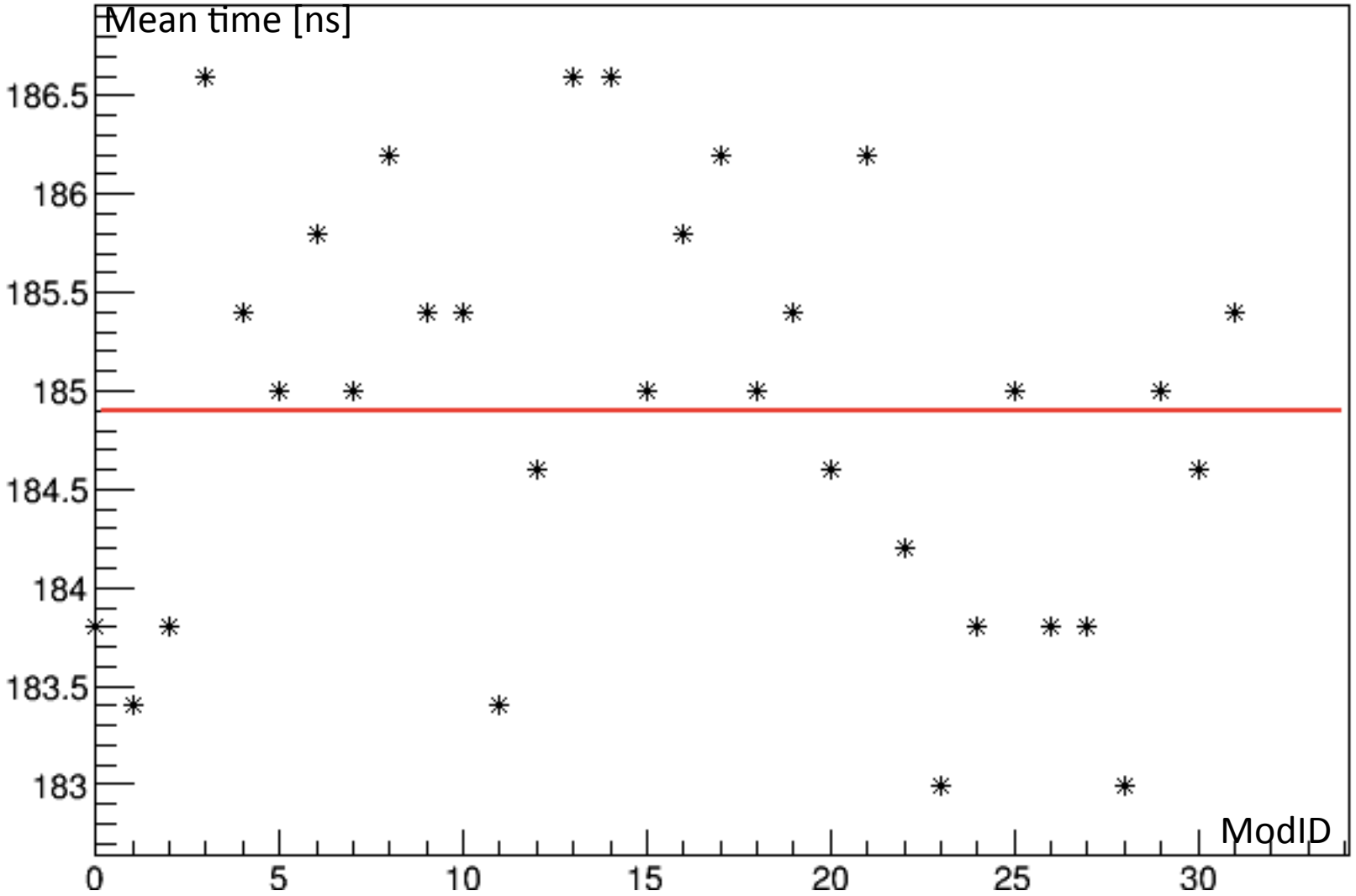


Module by module



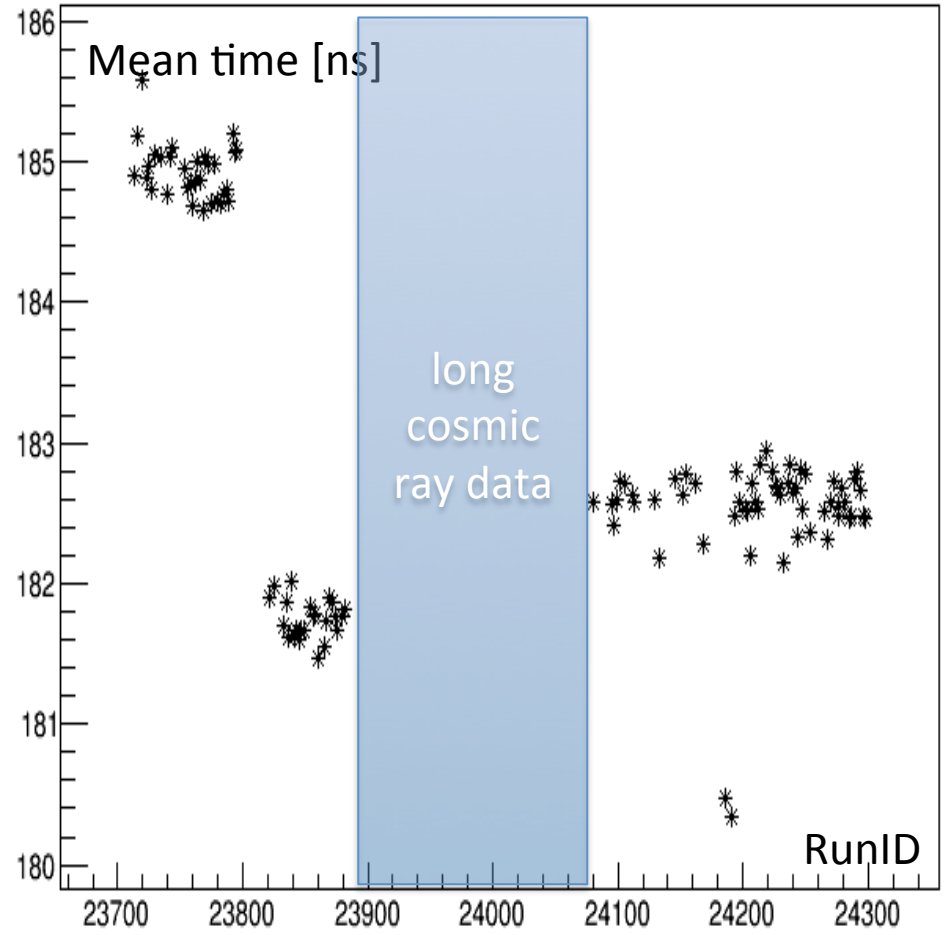


Run62 MB

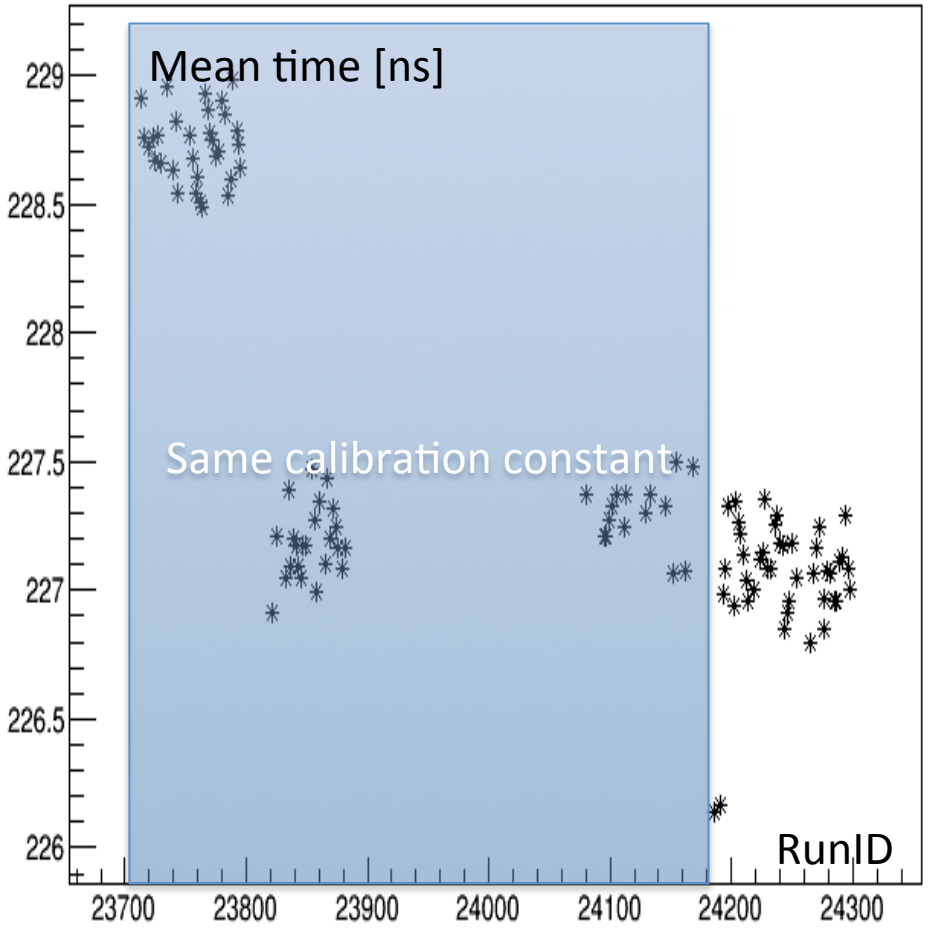

Mean time [ns]
186.5
186
185.5
185
184.5
184
183.5
183
0
5
10
15
20
25
30
ModID

Run by run

IB

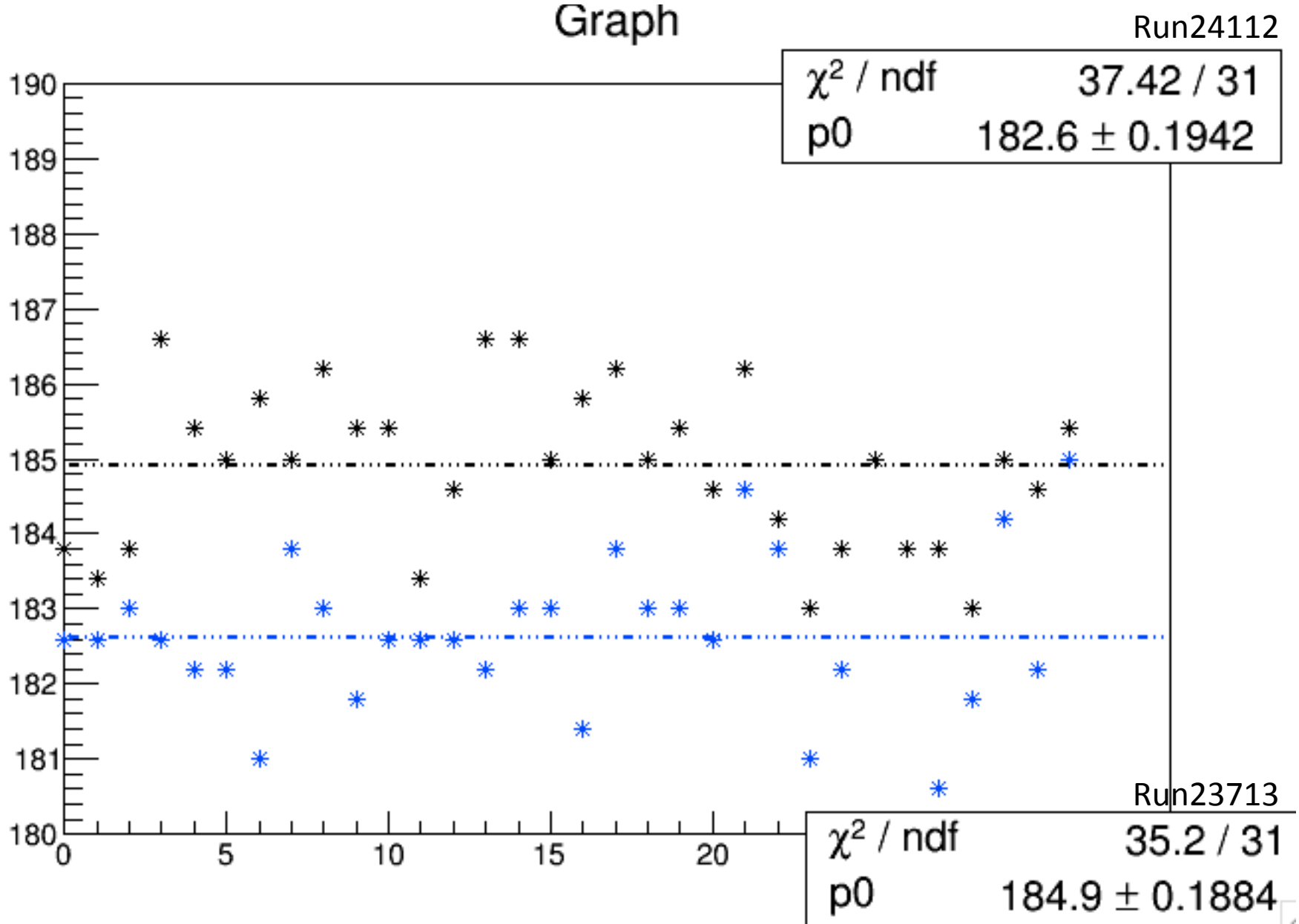


MB

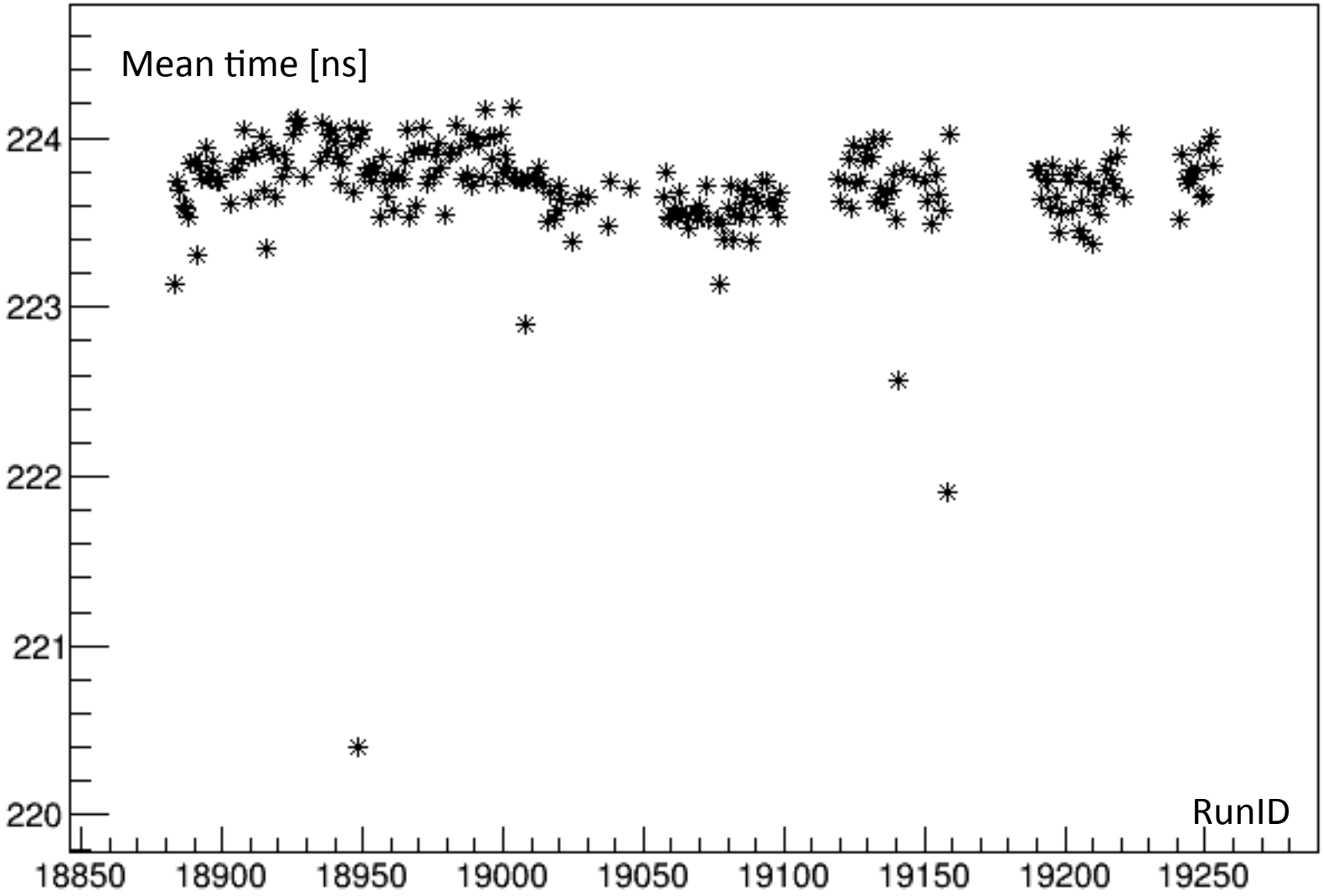


Y-axis : mean time from fitting result of page 4.
Systematic event between 23795 ~ 23821????

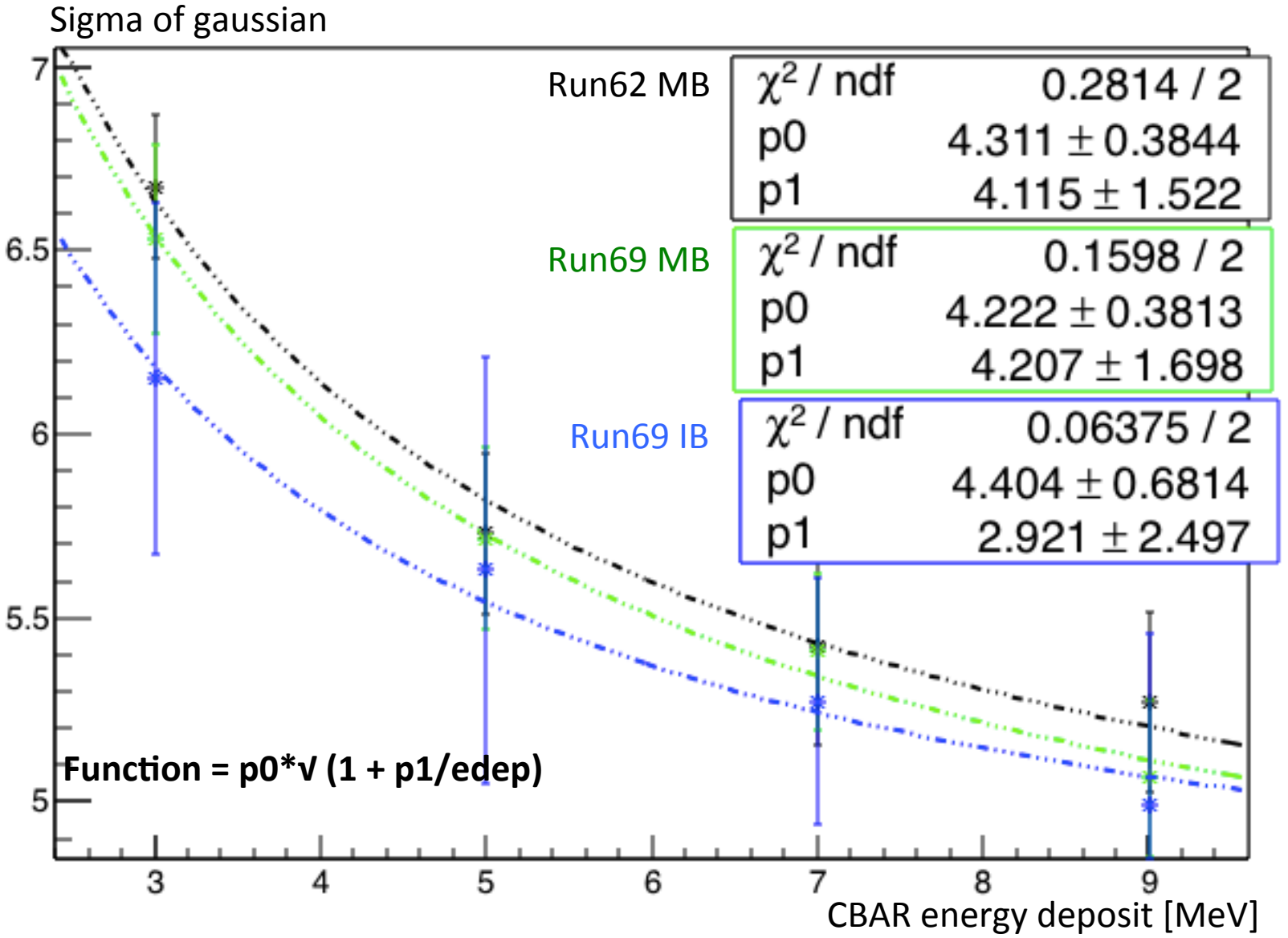
Run23713 vs Run24112



Run62 MB


Mean time [ns]
224
223
222
221
220
RunID
18850
18900
18950
19000
19050
19100
19150
19200
19250

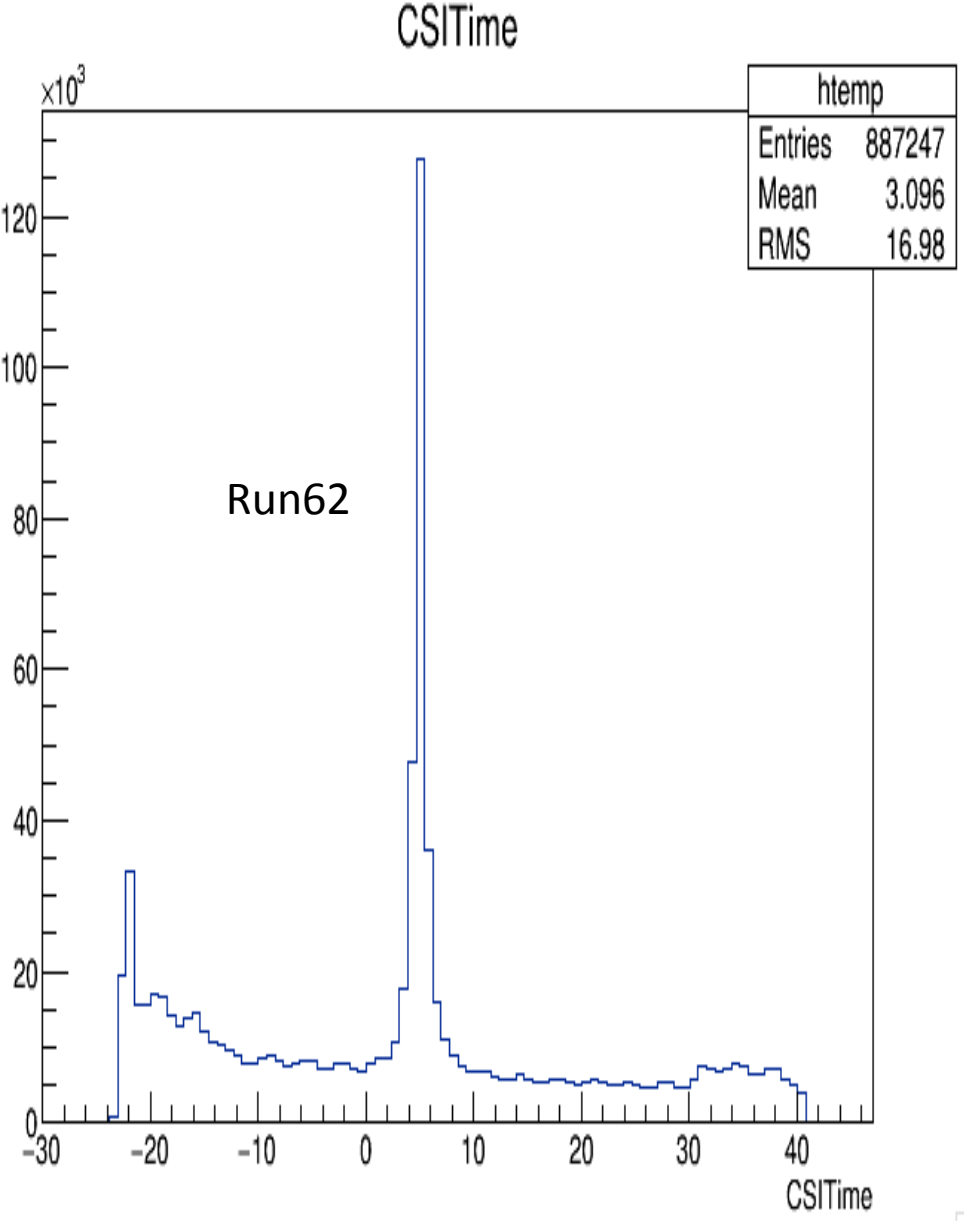
Mass Resolution of IB & MB

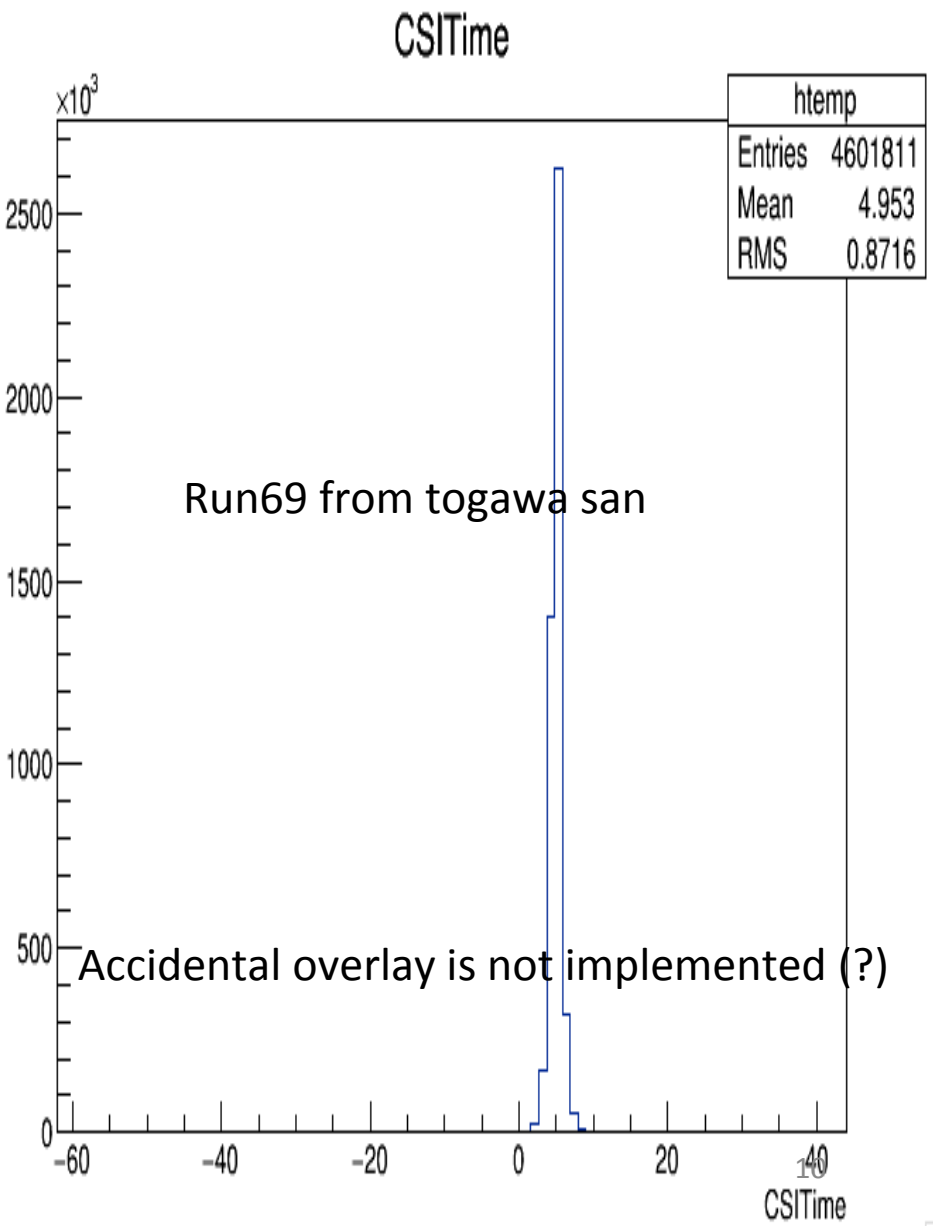


Large error on IB (low statistic)
Normalization trigger analysis?

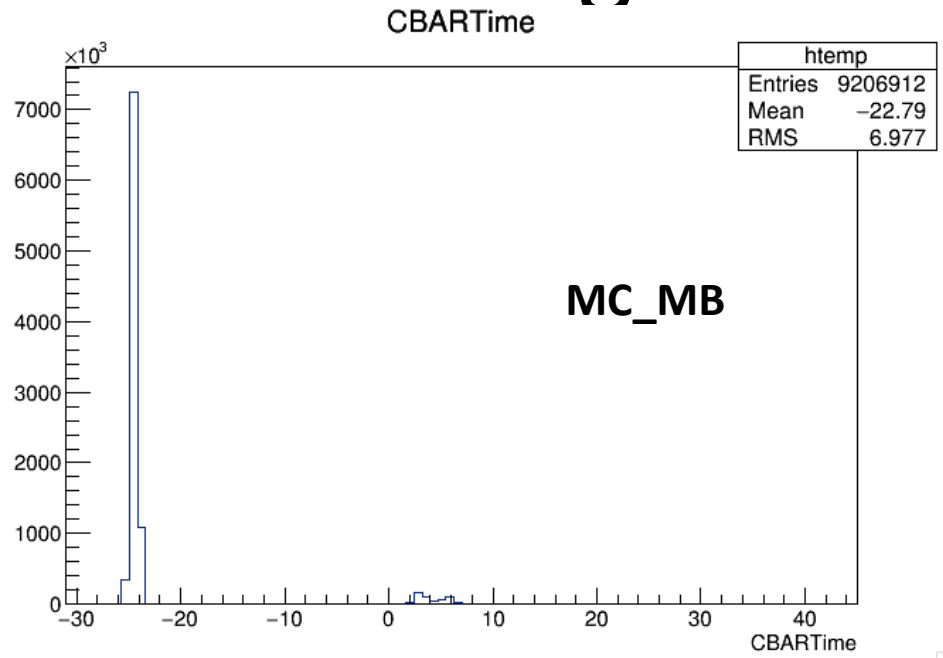
Timing distribution

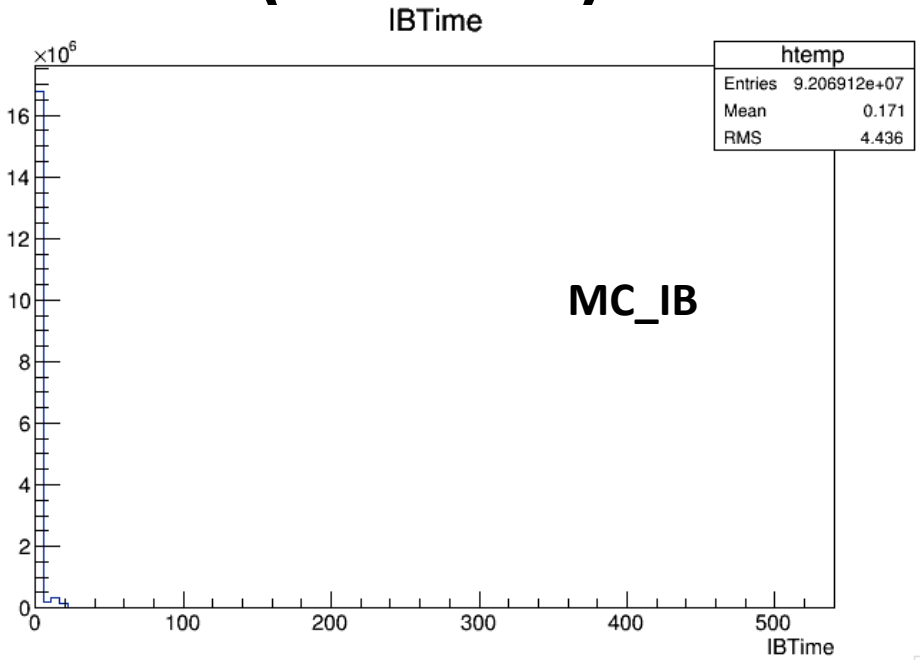
KL3pi0 MC

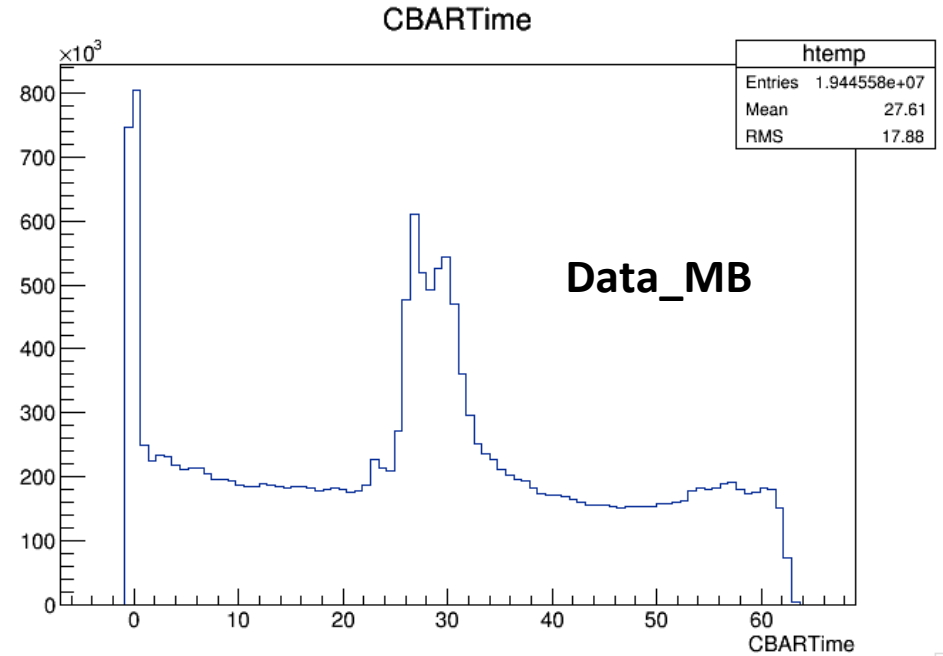


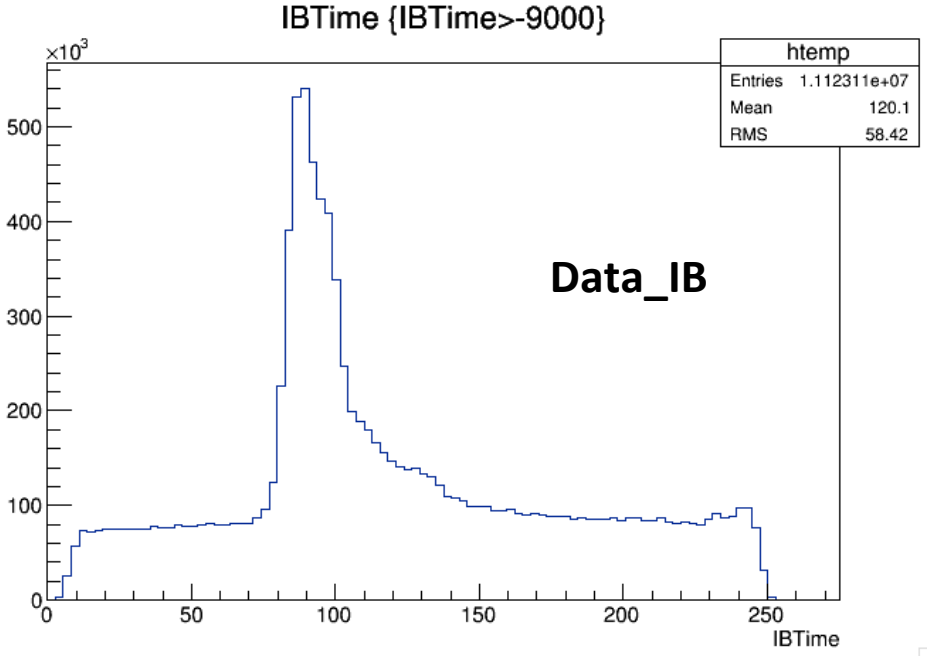


Timing Distribution (Barrel)







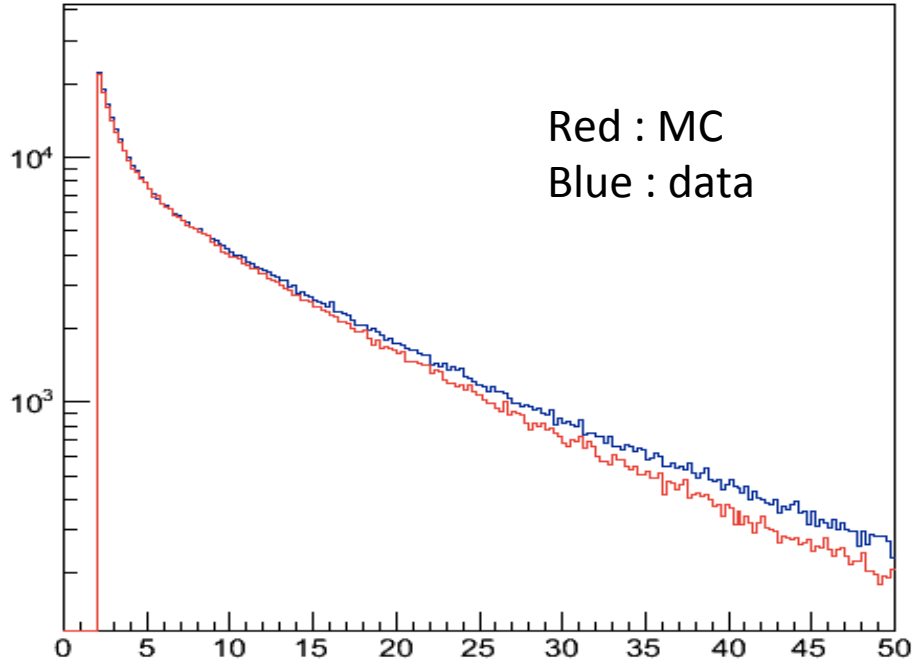


Energy deposit in Barrel

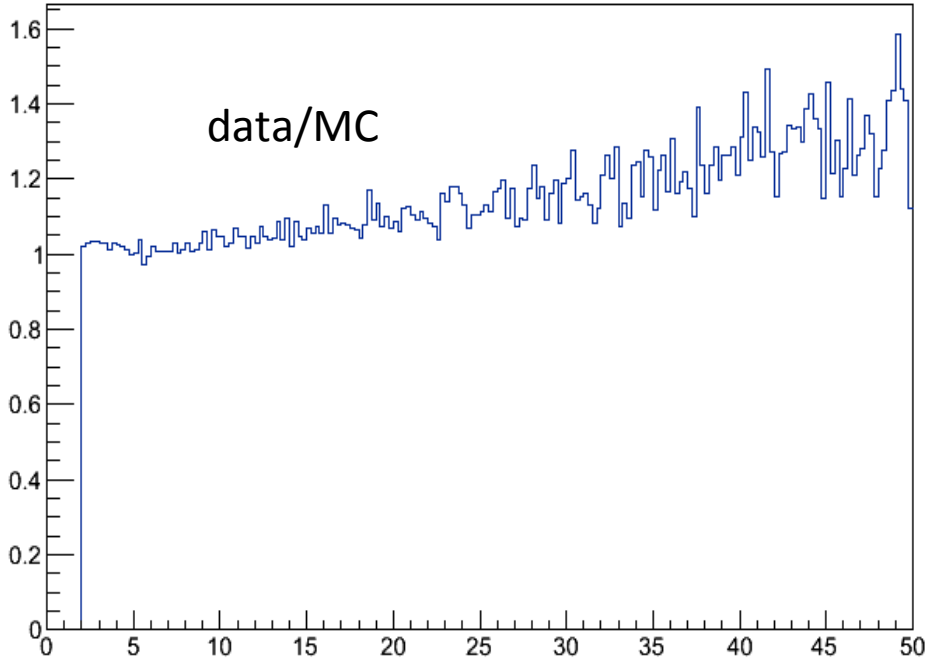
- We can decide signal in barrel as gamma using 5g+1g analysis.
- Check energy deposit of 1g between MC and data
- Energy calibration check (?)

MB energy deposit

Run62, Min. Bias trigger
CSIET > 800MeV in offline
POT normalized



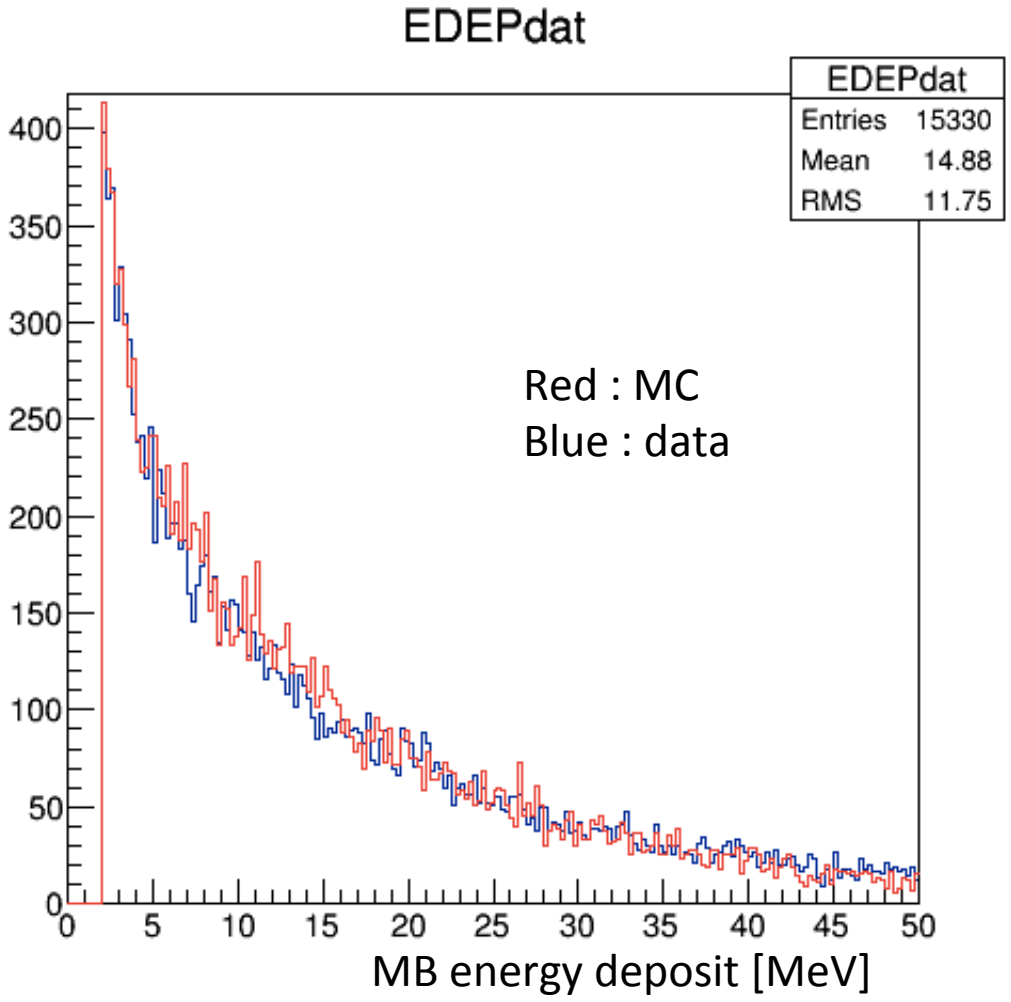
MB energy deposit [MeV]

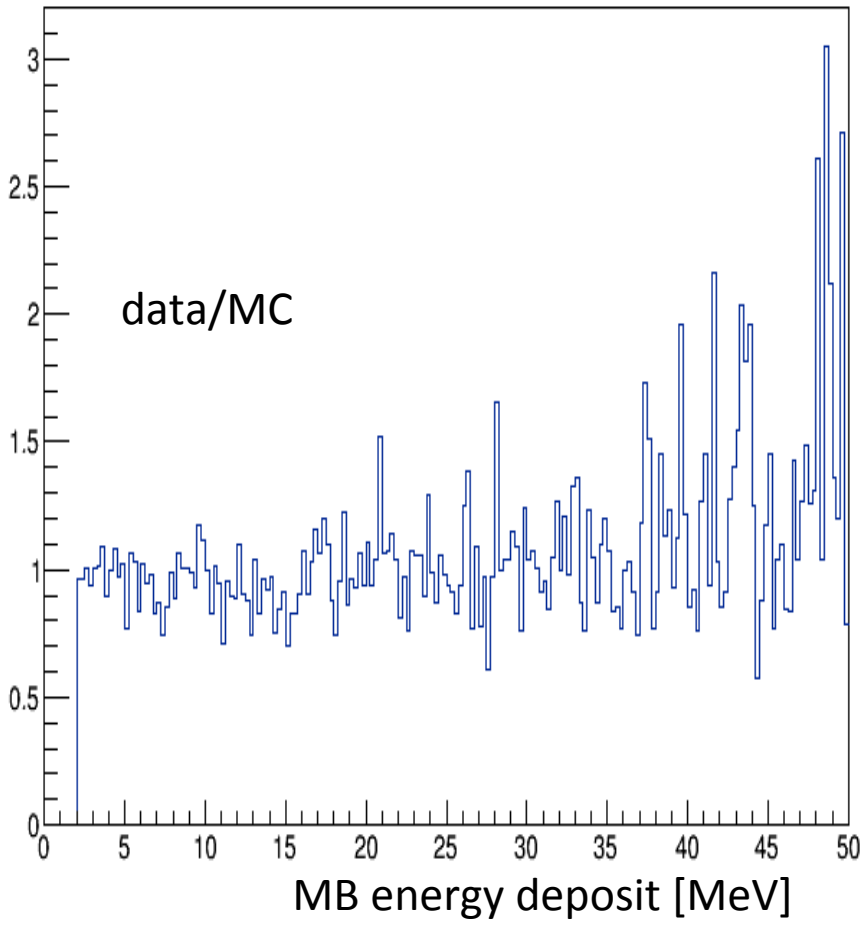


MB energy deposit [MeV]

Condition :
Events which are well reconstructed

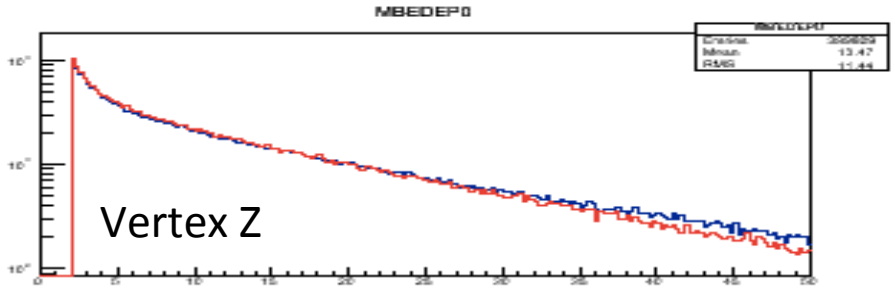
After cut bit

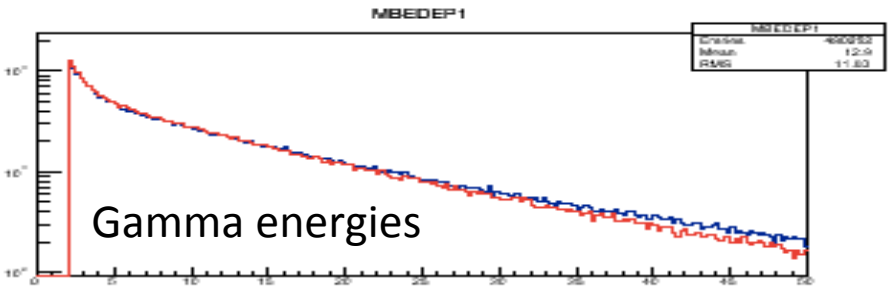


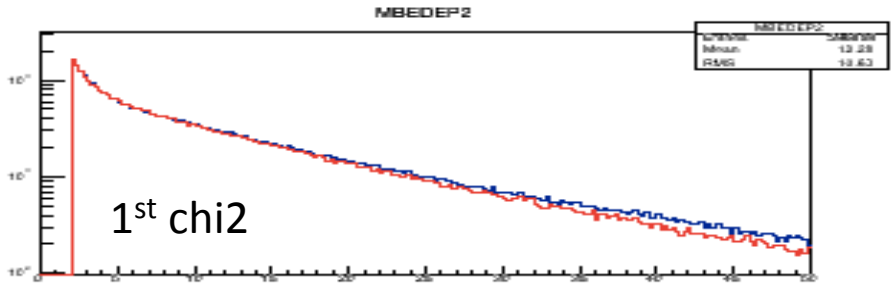


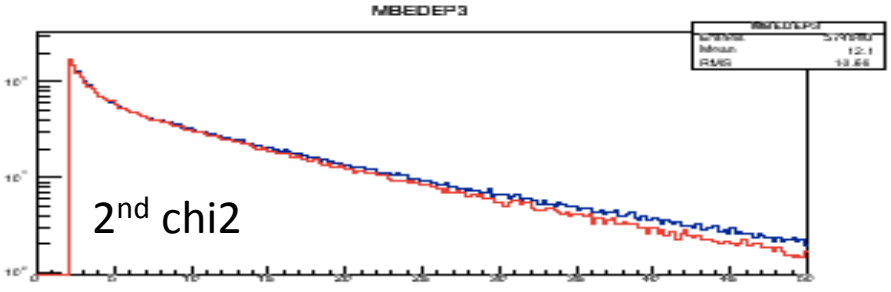
Condition :
Events which are well reconstructed
+ CutBit (apply kinematical cut)

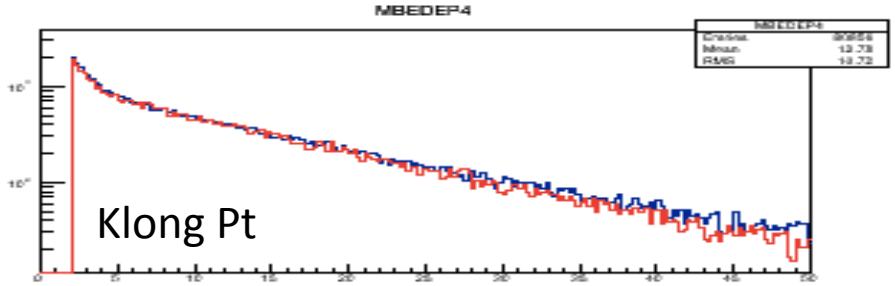
Reductions for each cut

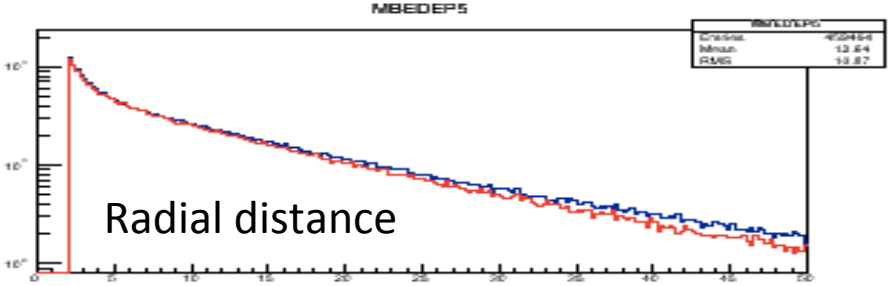


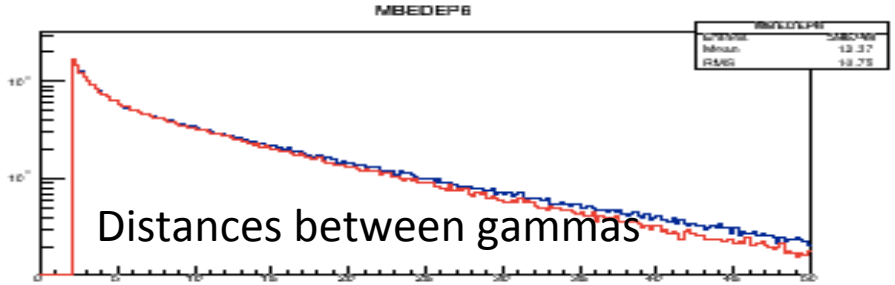






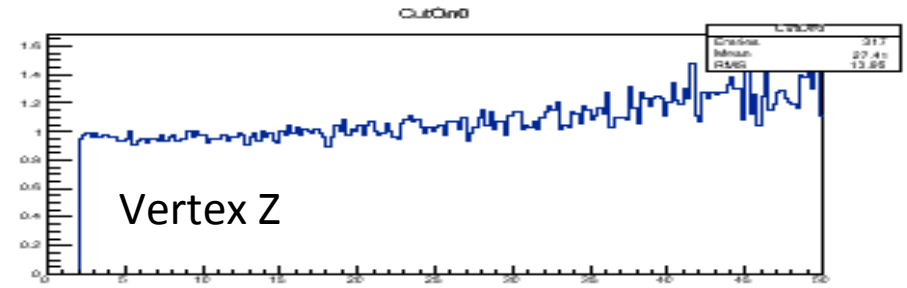


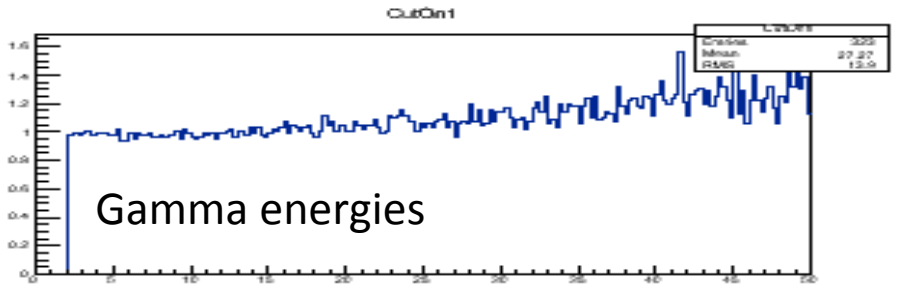


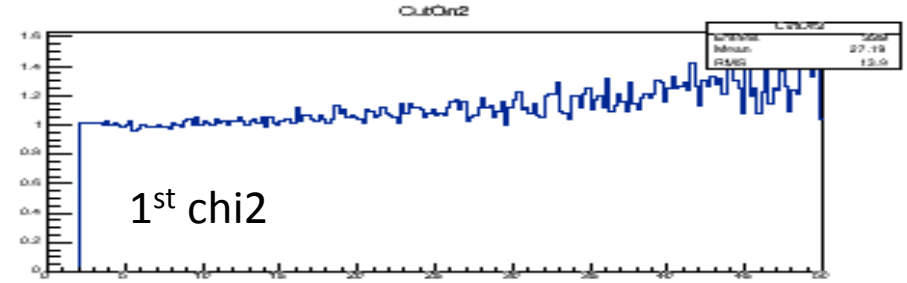


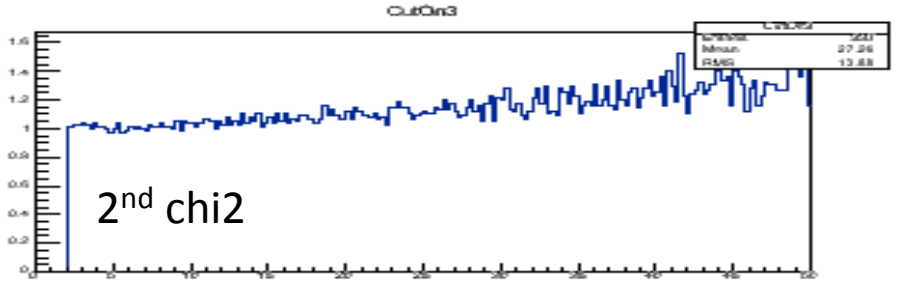
Plots
Blue : data, Red : MC

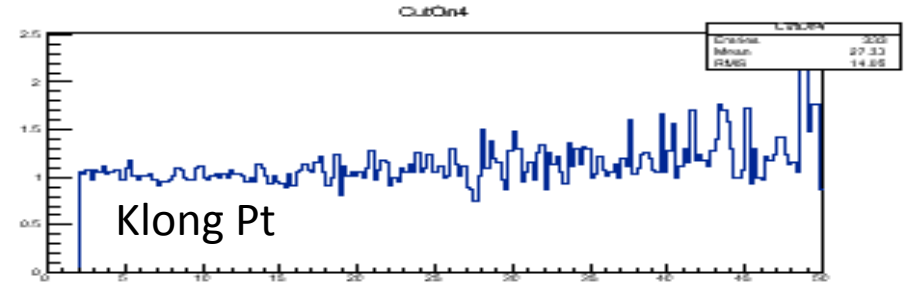
Reduction ratio for each cut

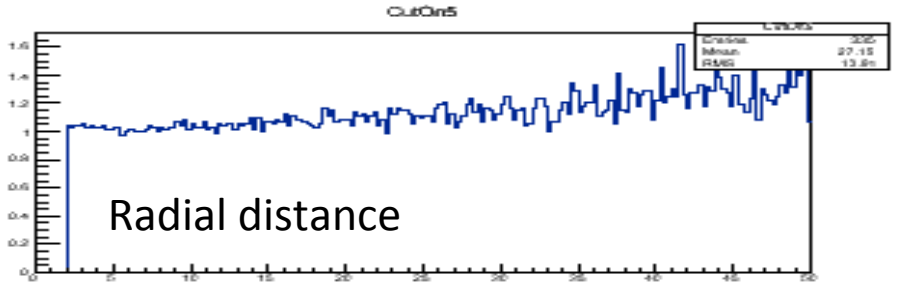


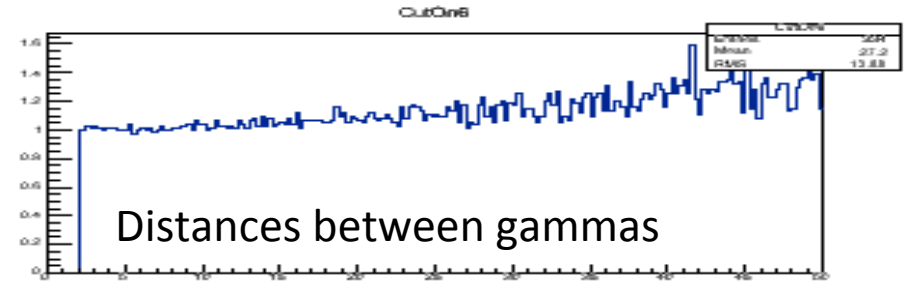




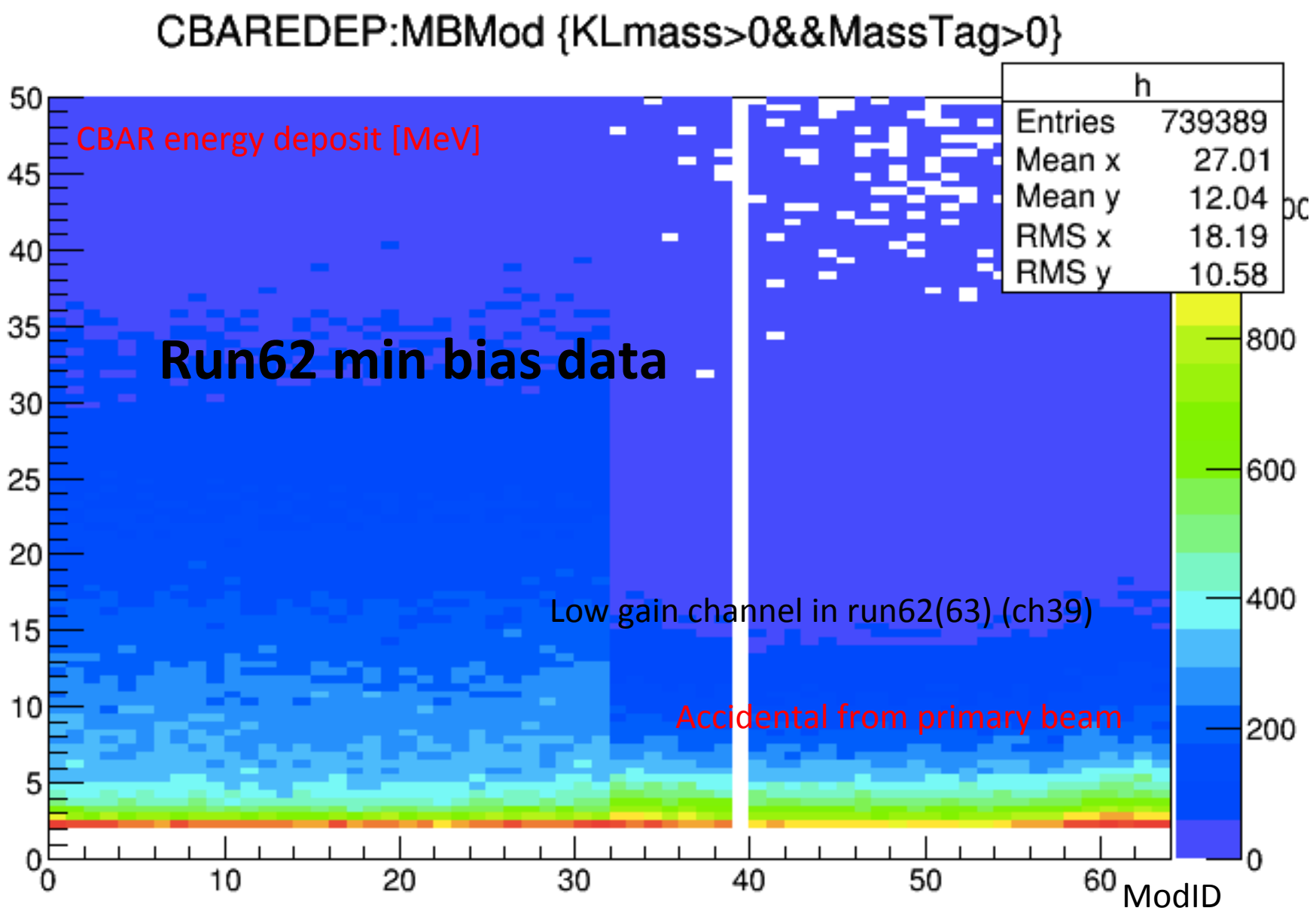






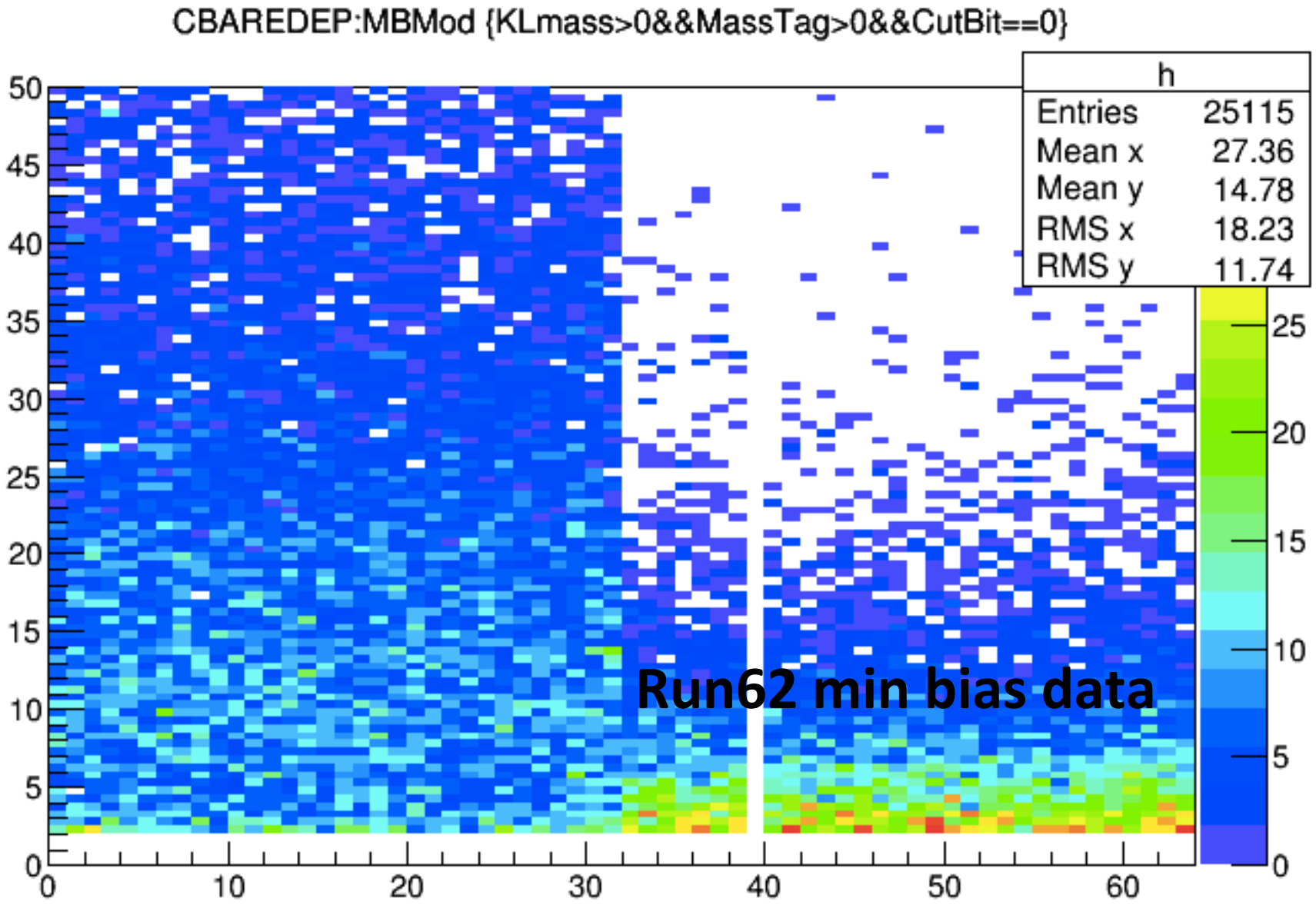


Plots : CBAR energy deposit ratio (data/MC)
With POT normalization



Used accidental hit for 5g+1g analysis

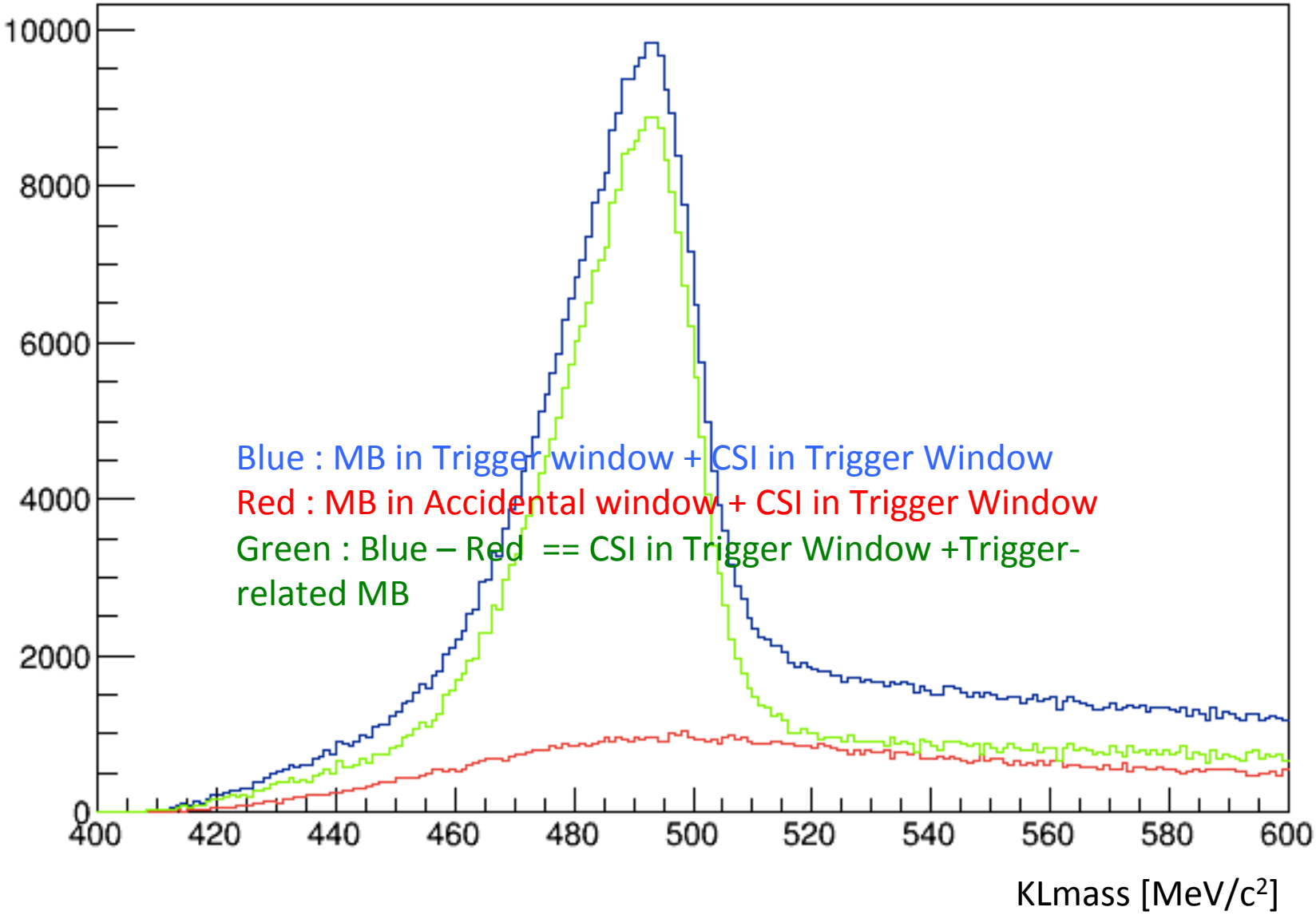
After kinematical cut



Accidental events

- Accidental events
  - Accidental MB + Triggered CSI
  - Triggered MB + Accidental CSI
  - Accidental MB + Accidental CSI
- Data
  - Run62
  - In trigger window, there are two events
    - Trigger-dependent
    - Trigger-independent
  - In Accidental window, there is only one event
    - Trigger-independent

Accidental MB + Triggered CSI



After applying kinematical cut