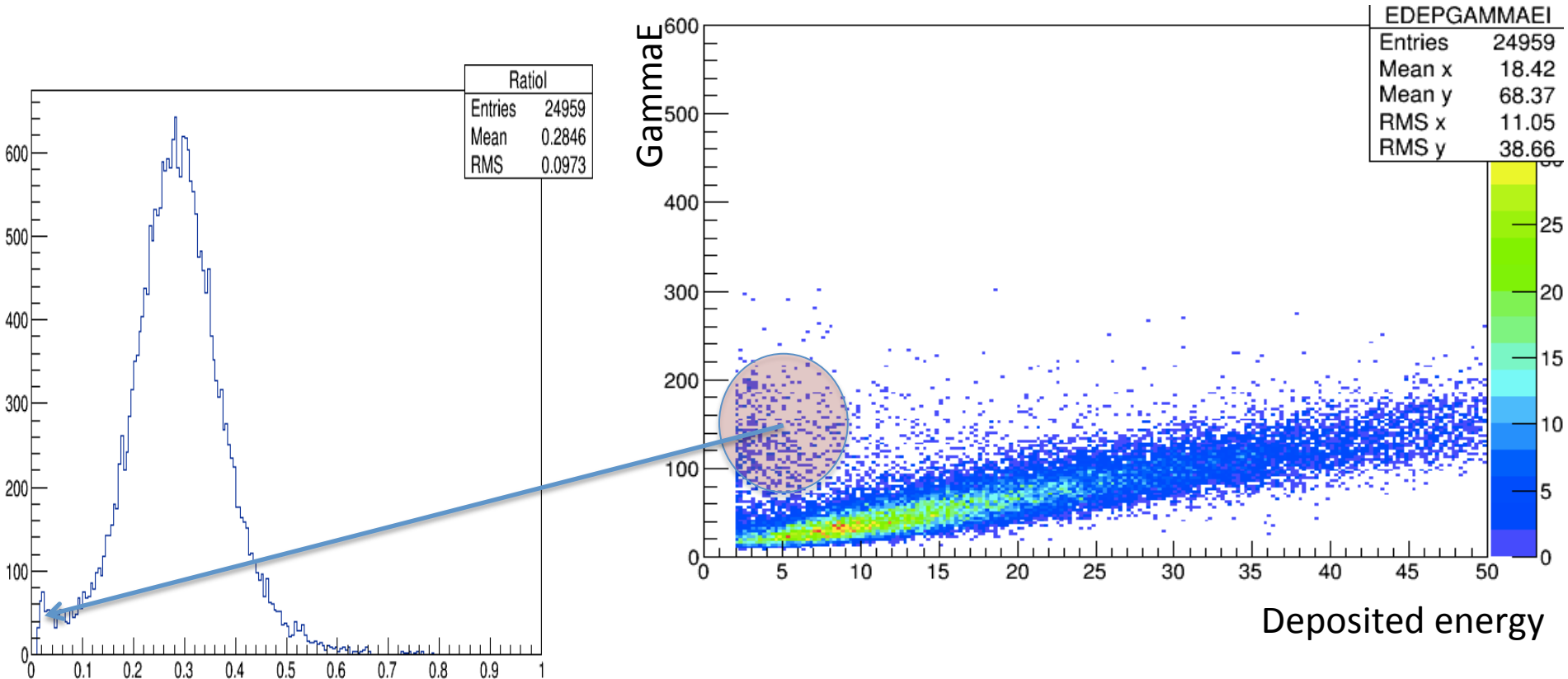


Relation between  
energy deposit &  
incident photon energy

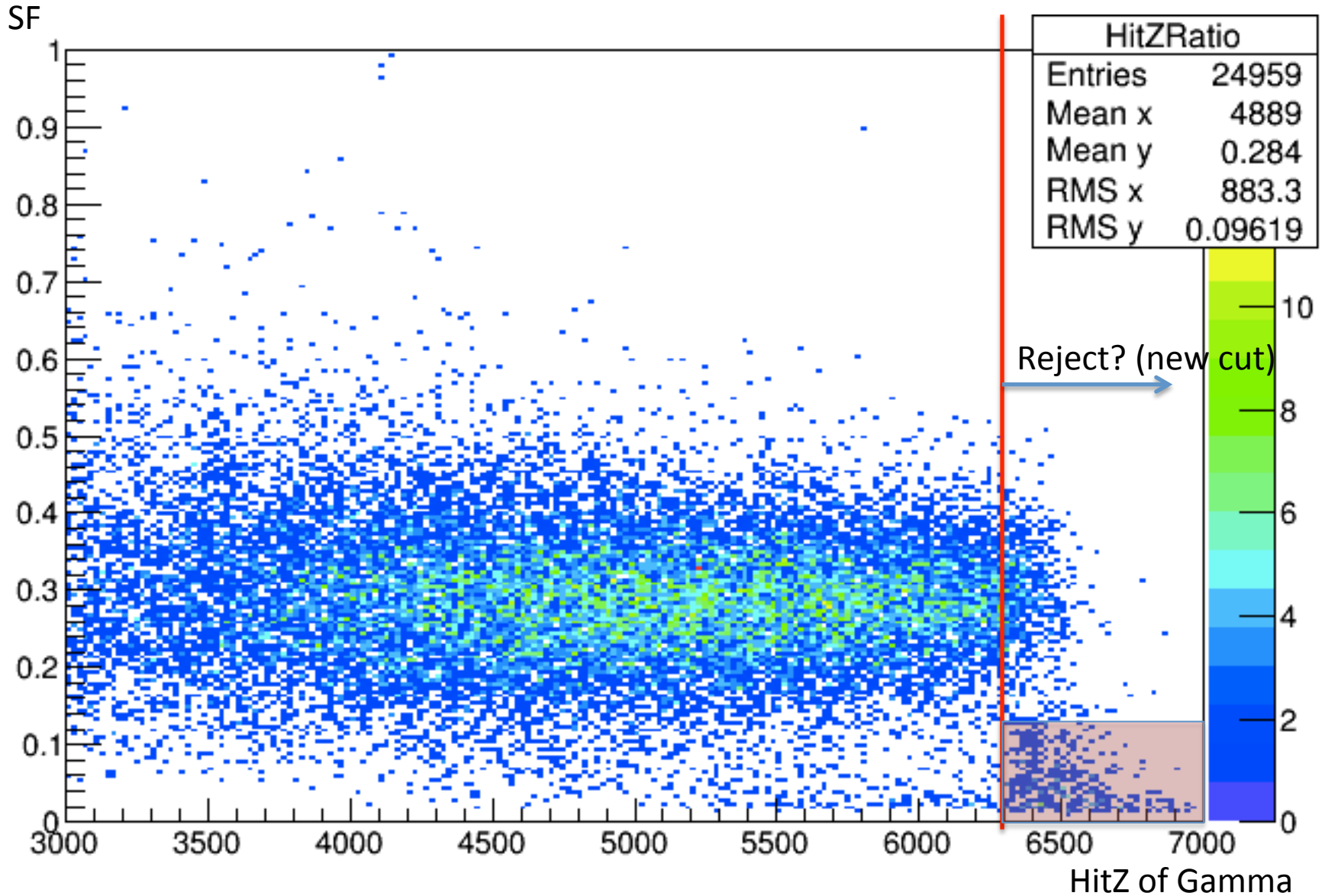
MC  
After all cuts  
+ DetectorVeto

# Sampling Fraction (SF)

- $SF = \text{Energy deposit} / \text{Incident energy}$

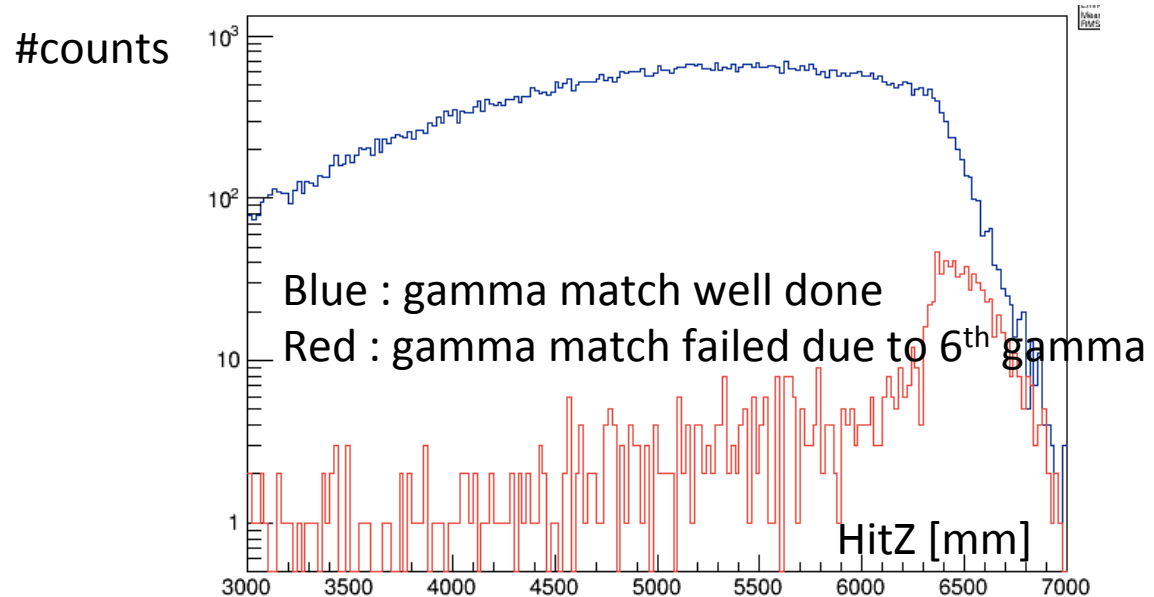


# SF vs HitZ

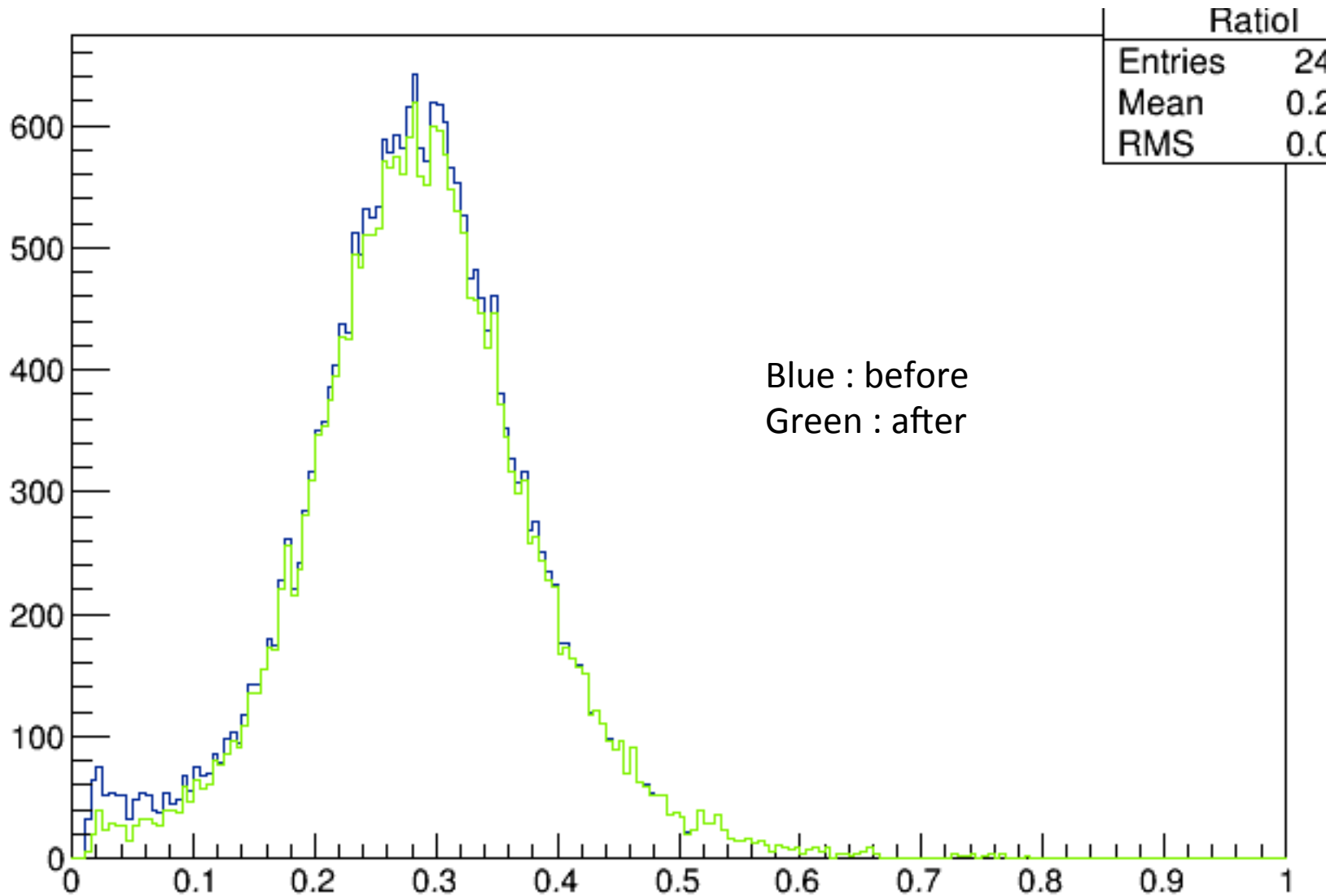


# At $r.\text{GenEndPos} < 1060$ ,

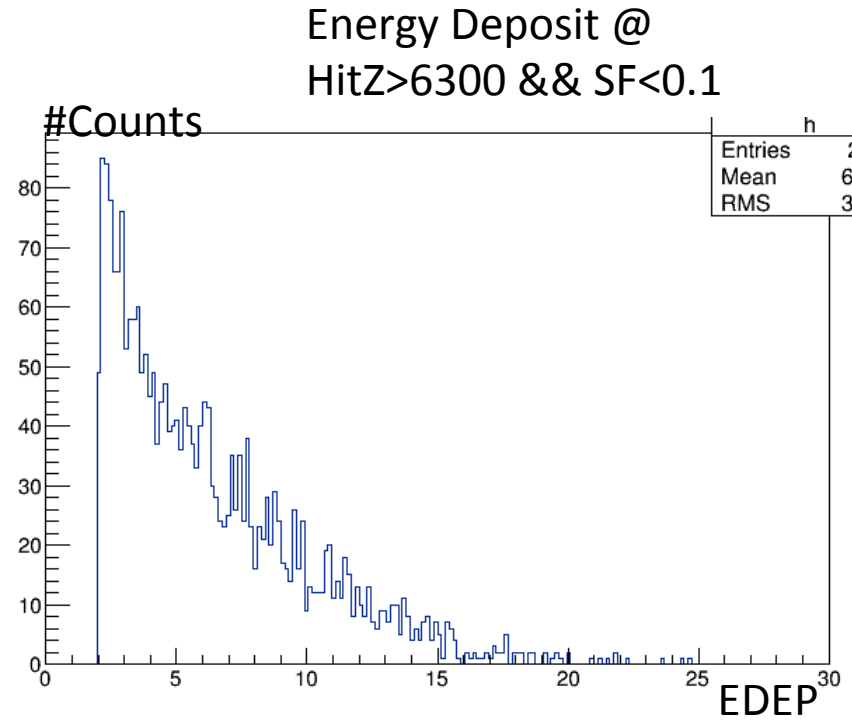
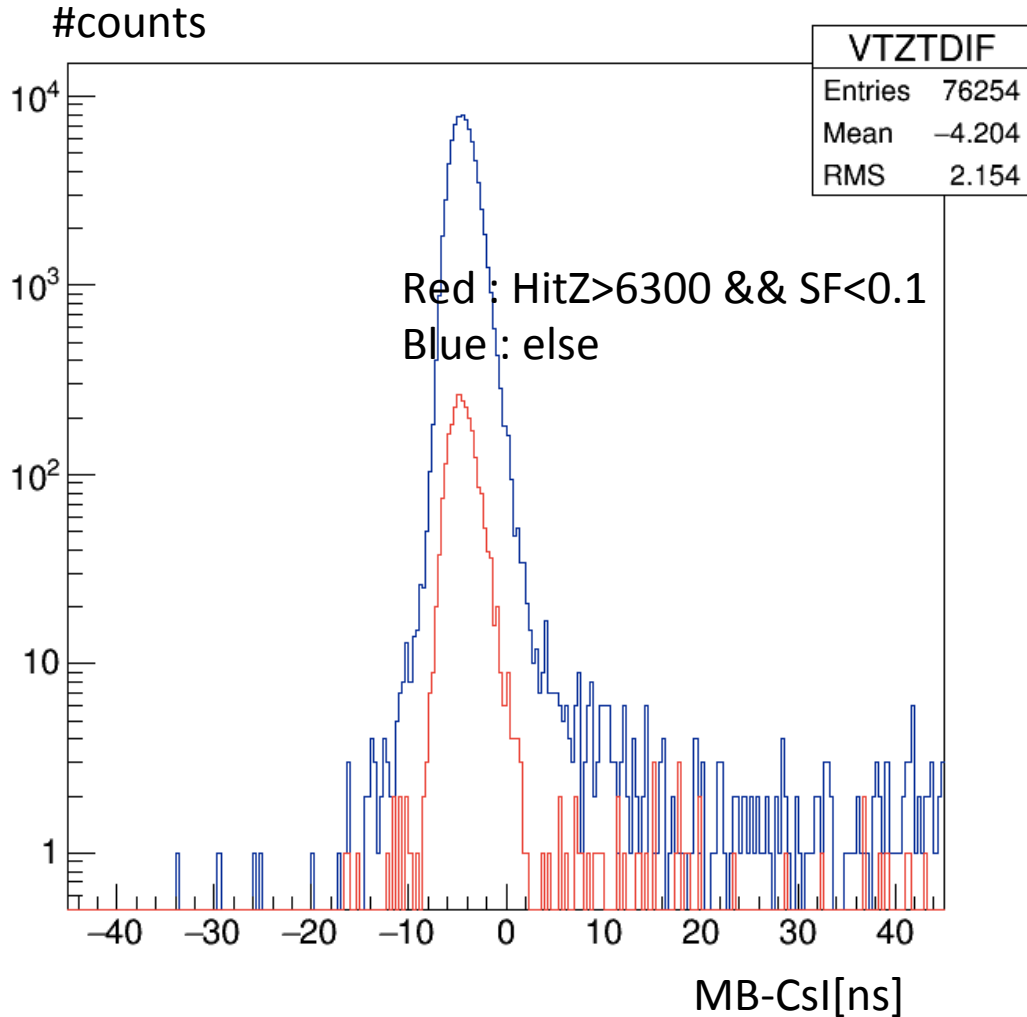
- Checking one gamma which goes to barrel
  - $\text{GendPos}_r > 1000$
- Some events survive after applying all cuts even if there is no gamma going to barrel
  - Inefficiency of gamma match



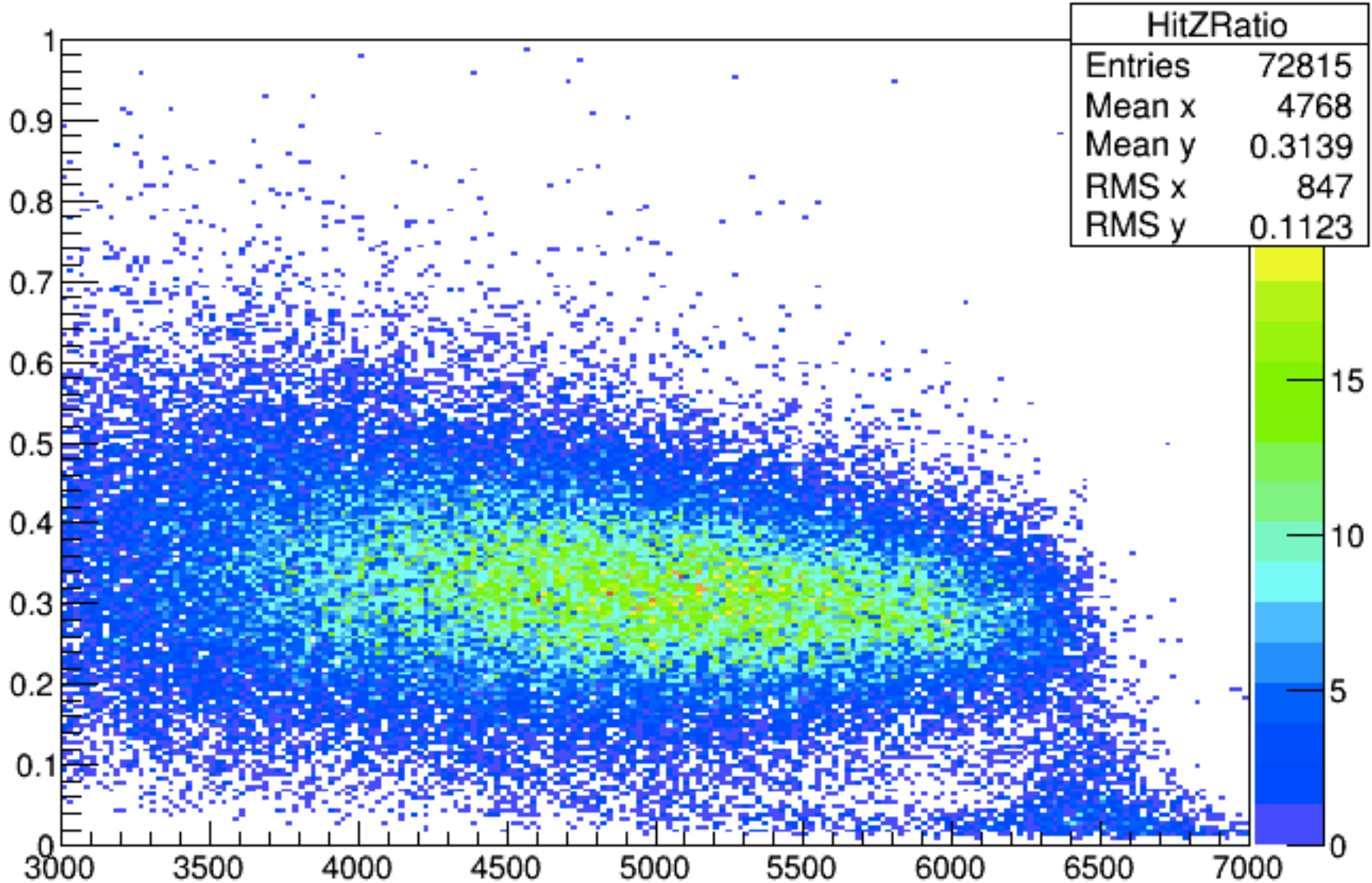
# After rejecting HitZ>6300,



# Change in vertex time difference?



# In data, (Run62)



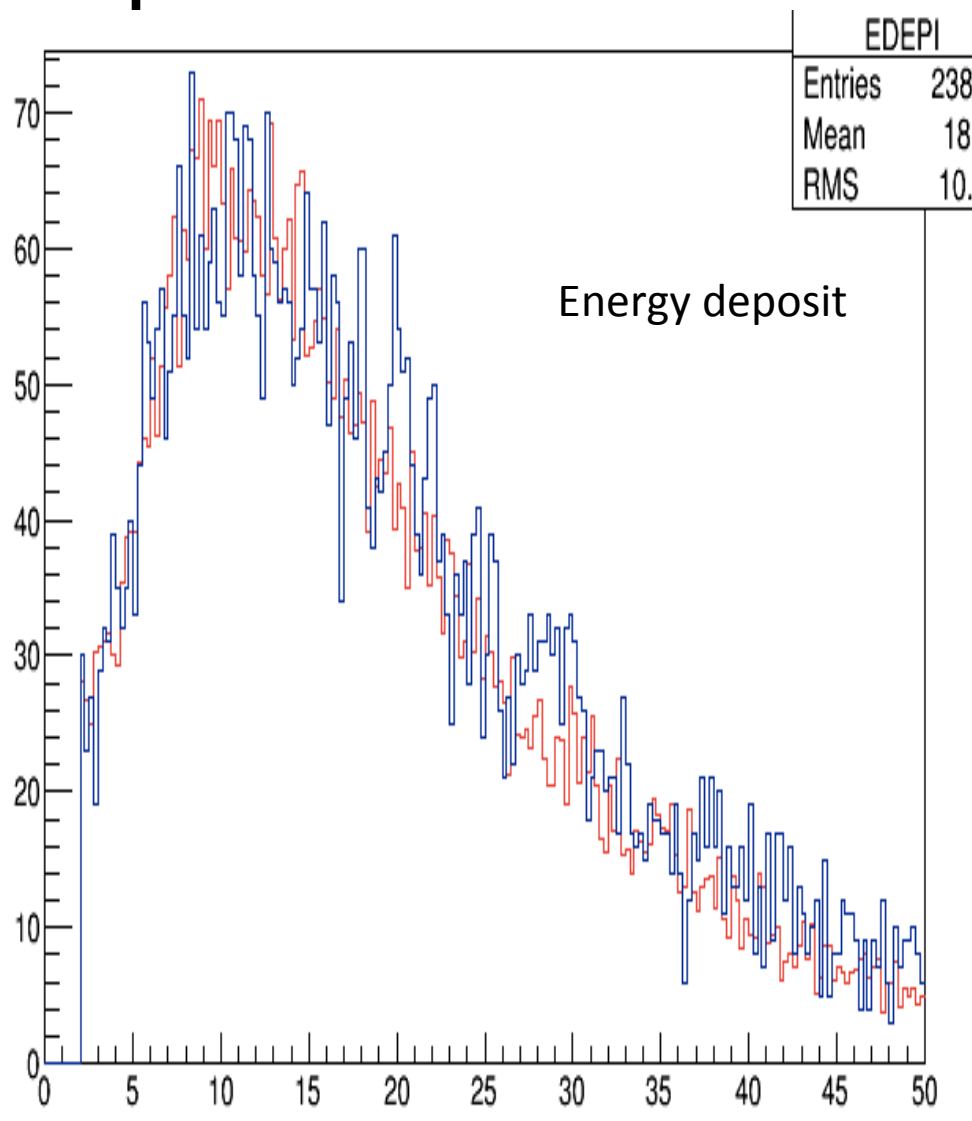
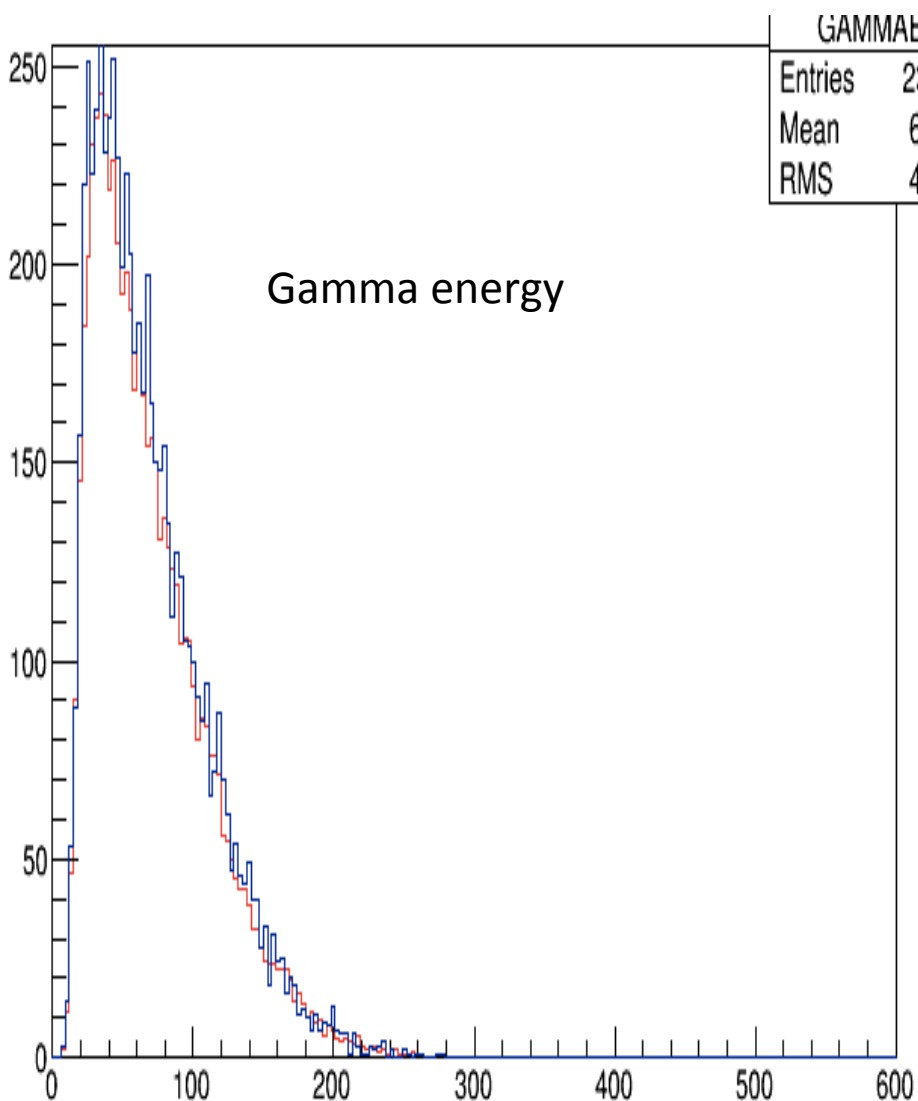
# Gamma energy energy deposit

Inner Main Barrel Hit only

Blue : data (Run64)

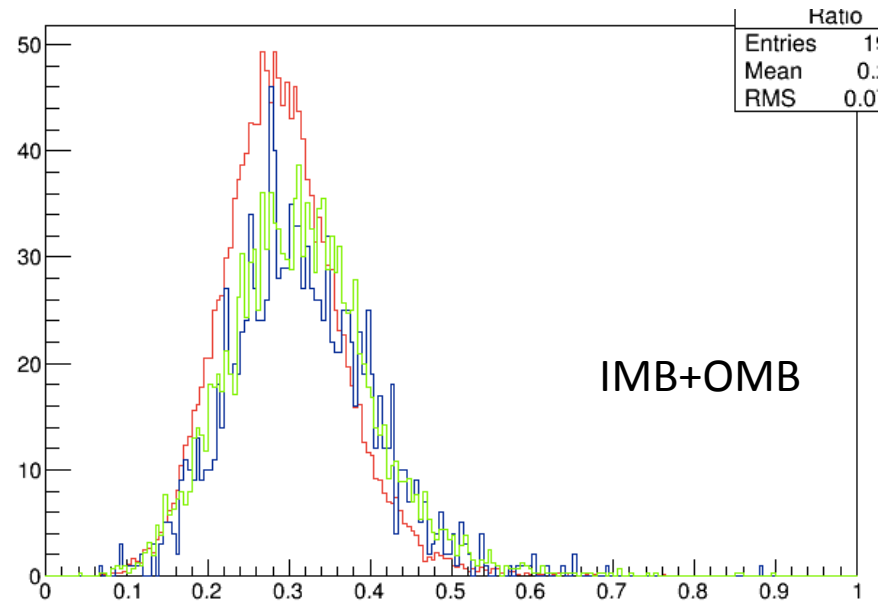
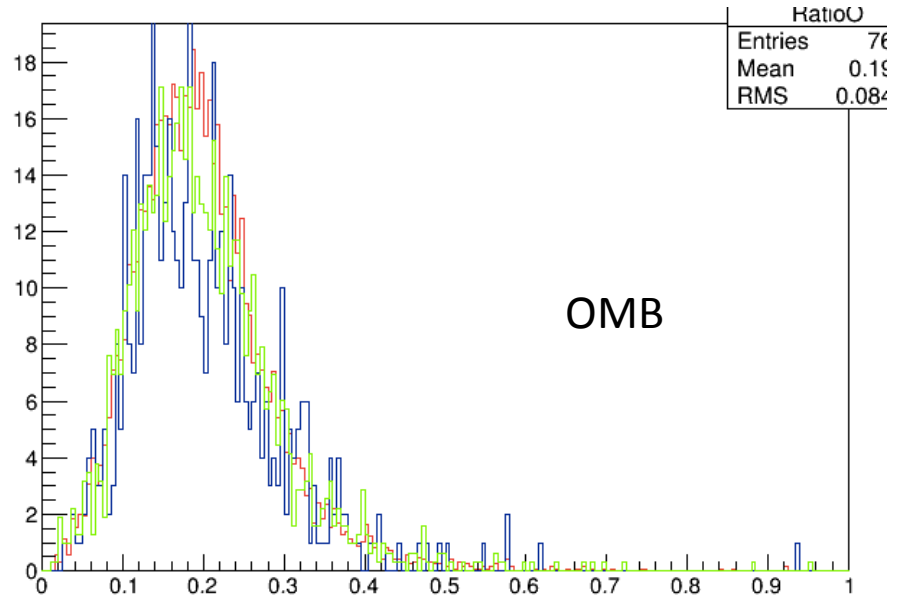
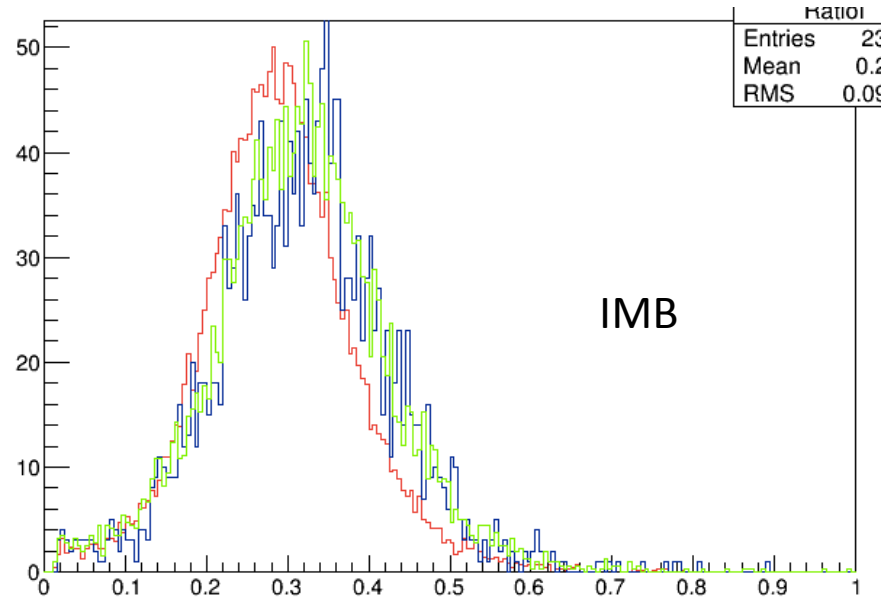
Red : MC

Normalized with P.O.T.





# Sampling Fraction



- OMB Fit well
- Discrepancy in IMB

