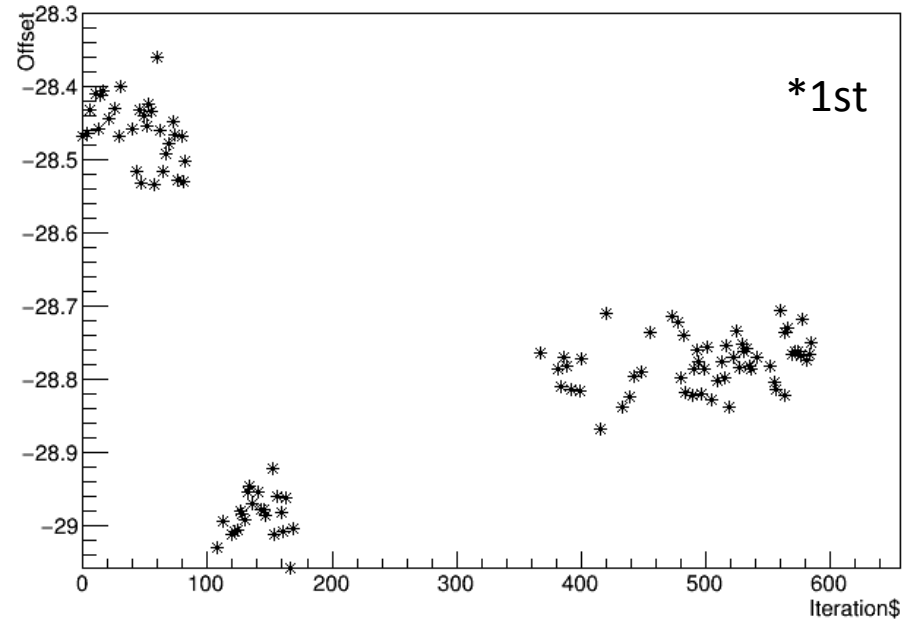


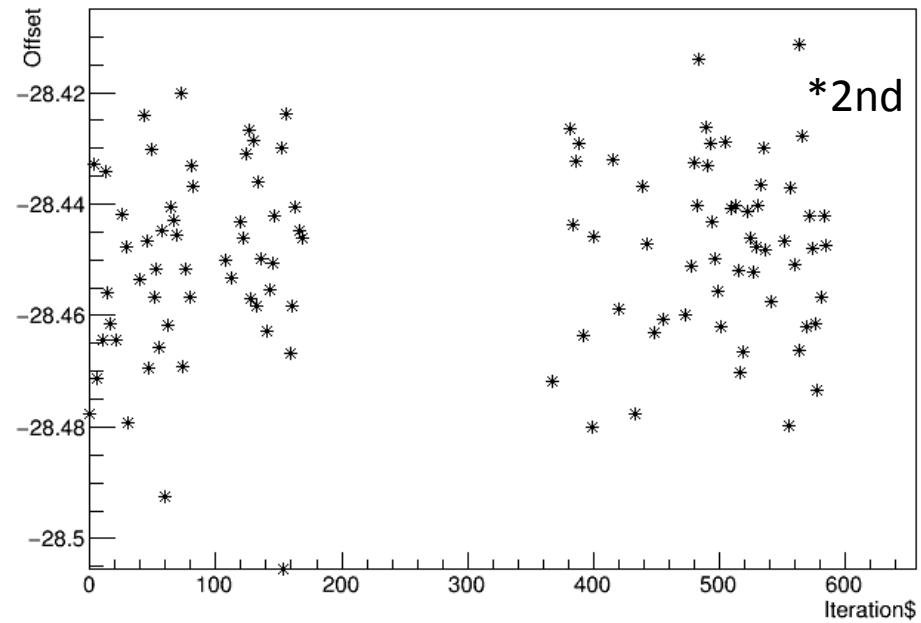
**Report 170322**

# Correction iteration

Run correction\_1



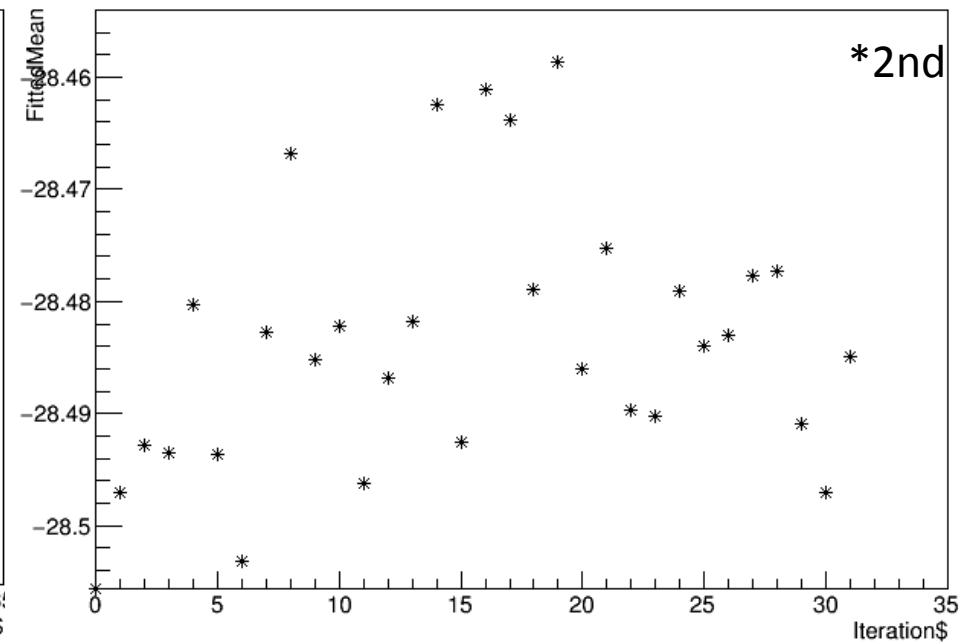
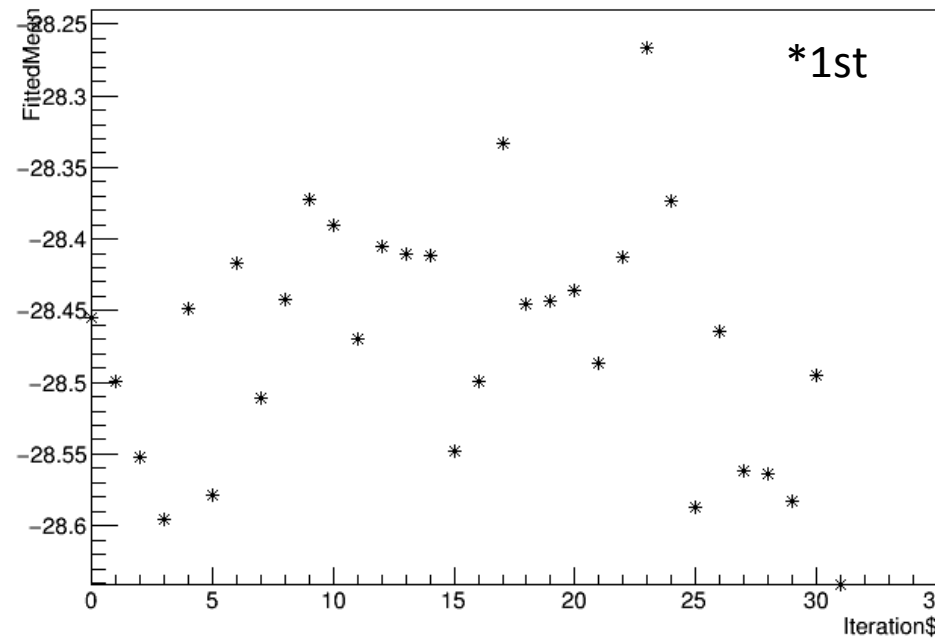
Run correction\_2



# Module correction

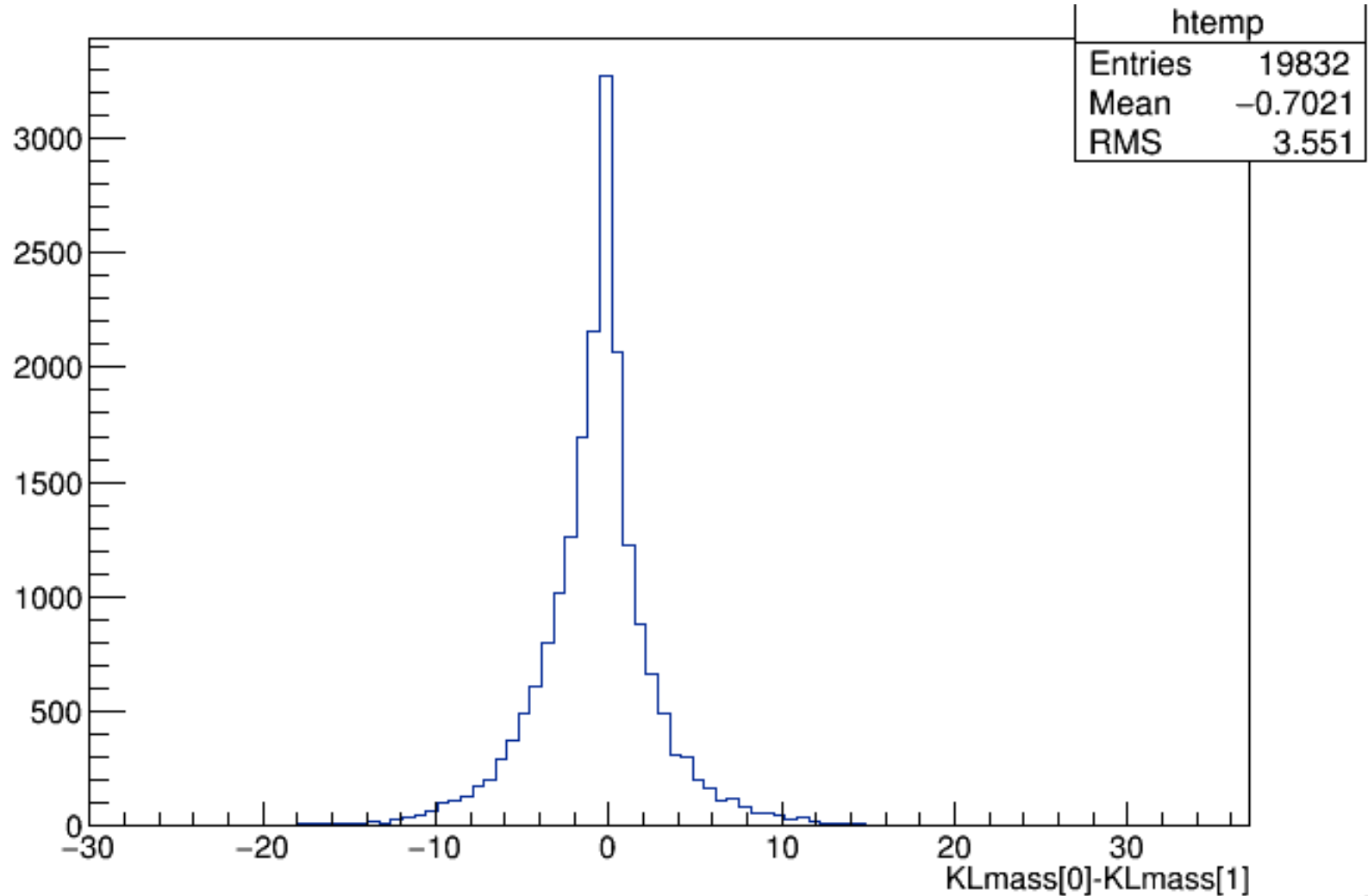
module correction\_1

module correction\_2

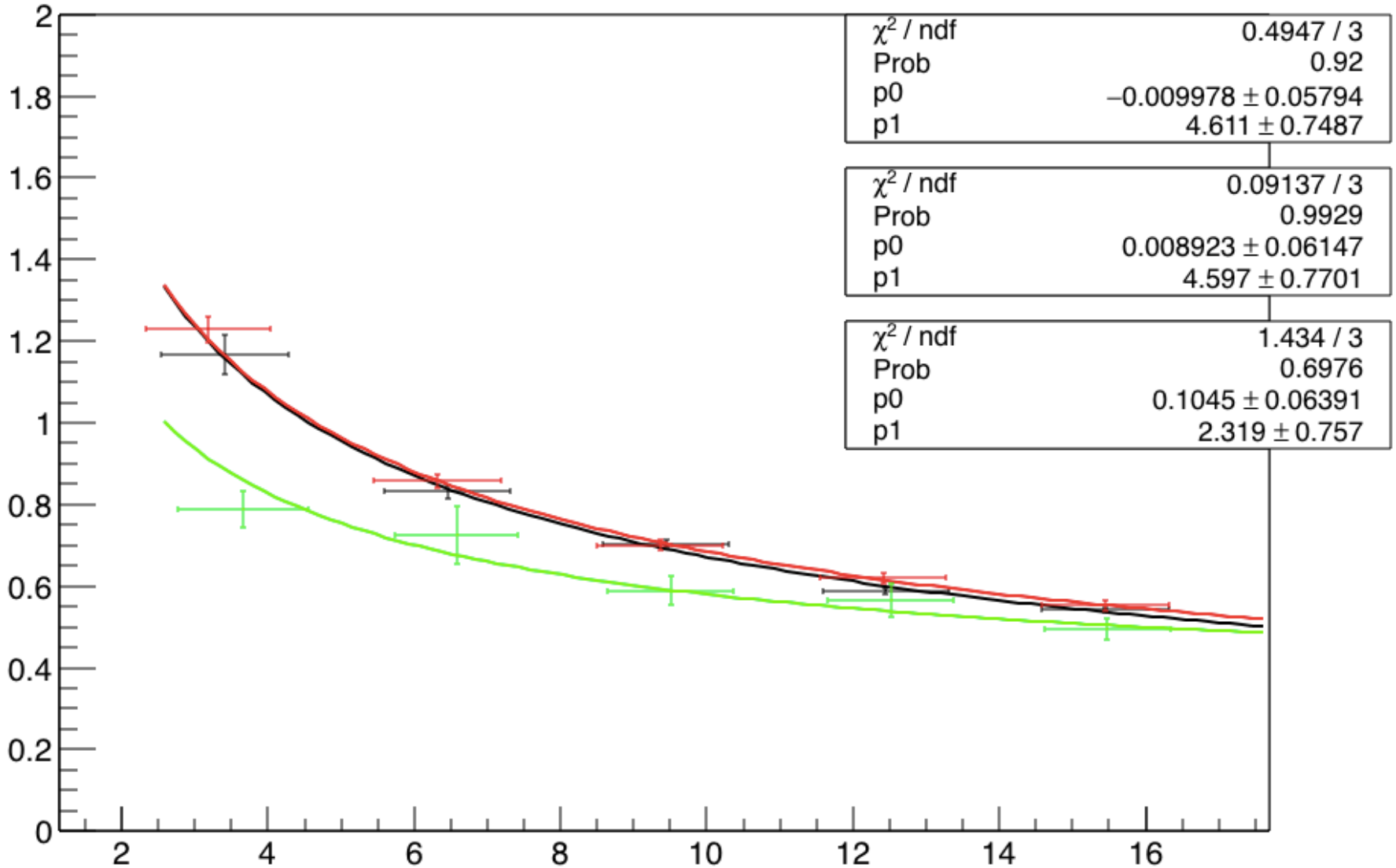


- Iteration is not so effective

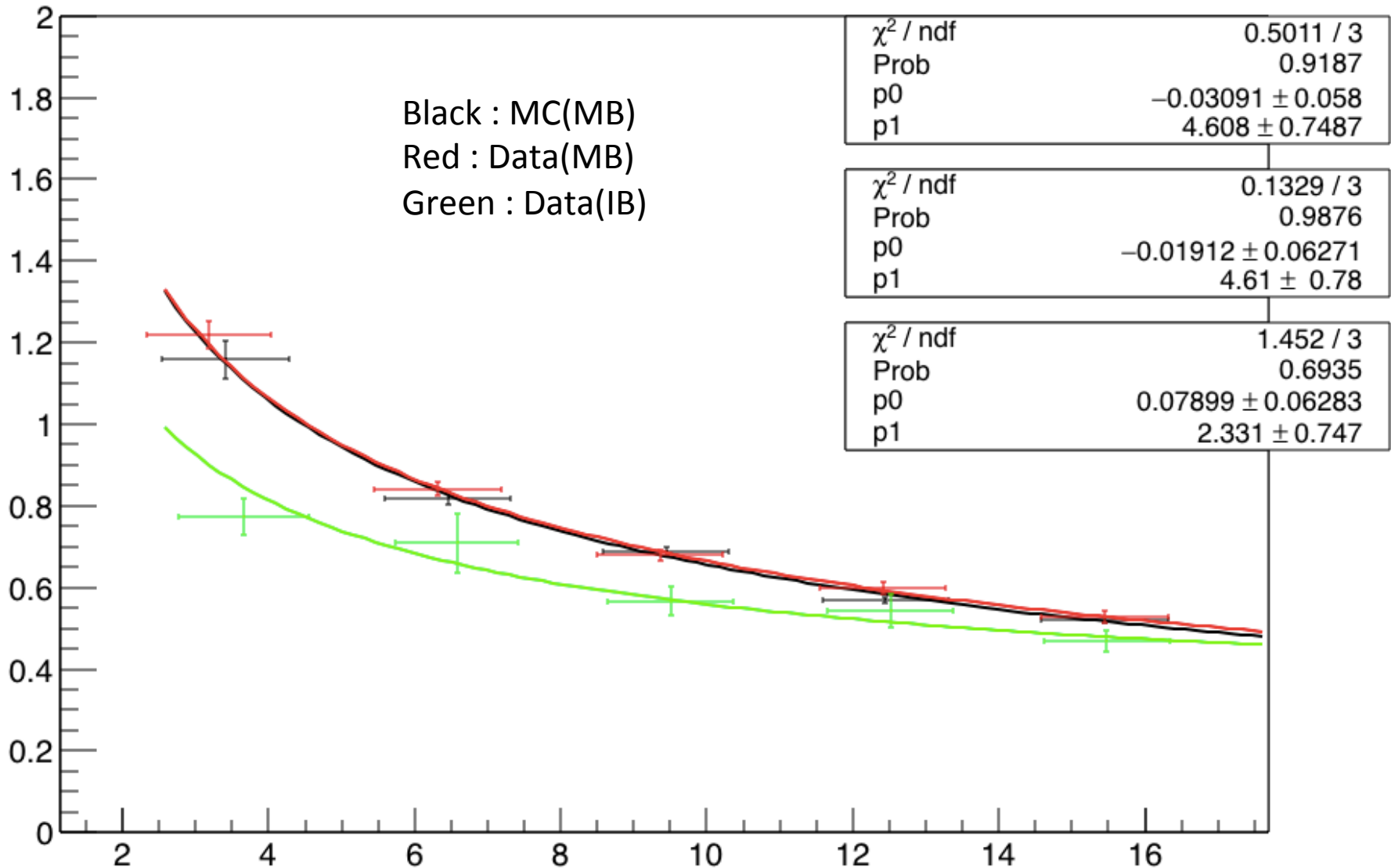
# Consistency of two KL within one event



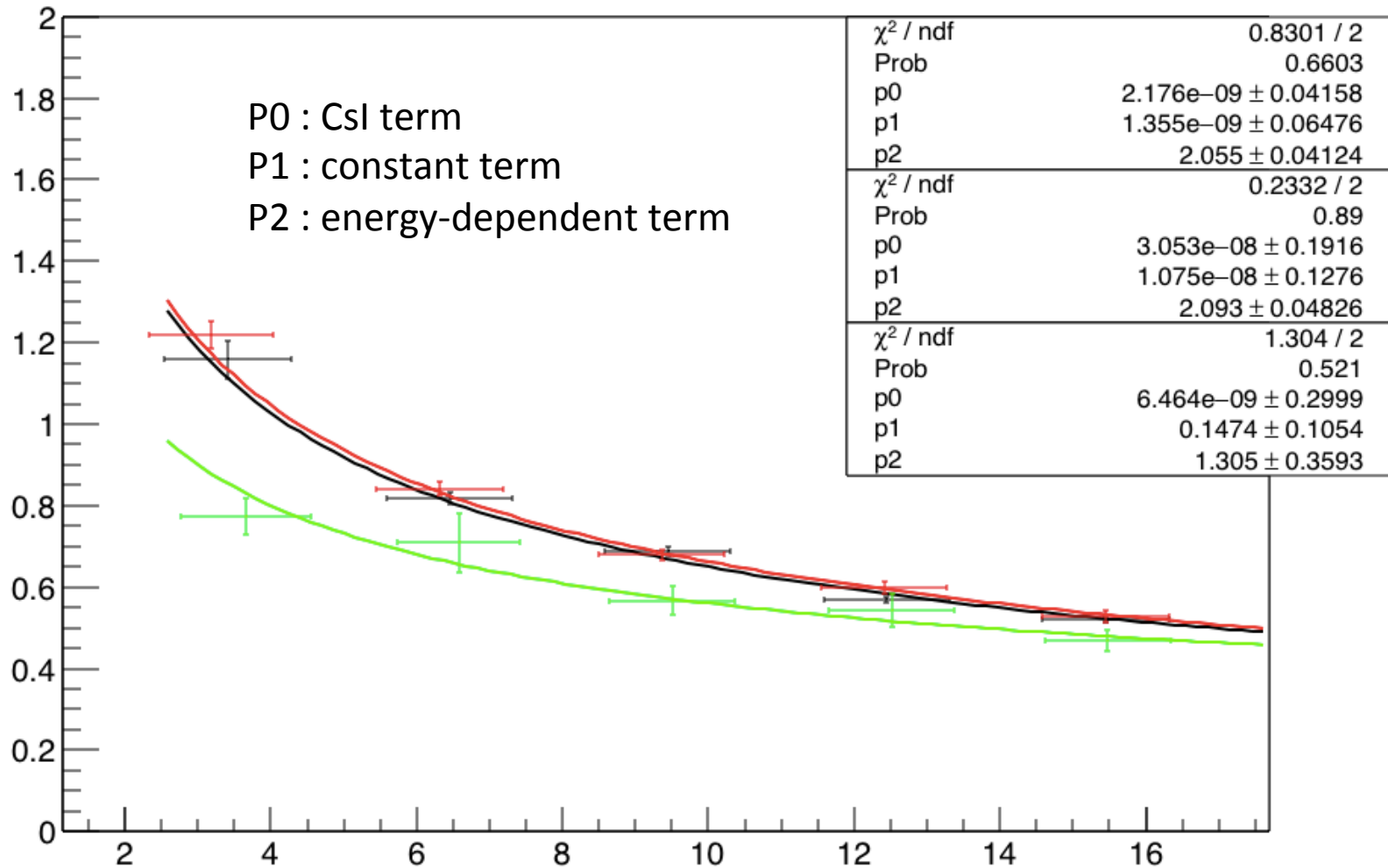
# time resolution



# Time resolution (CsI effect removed)

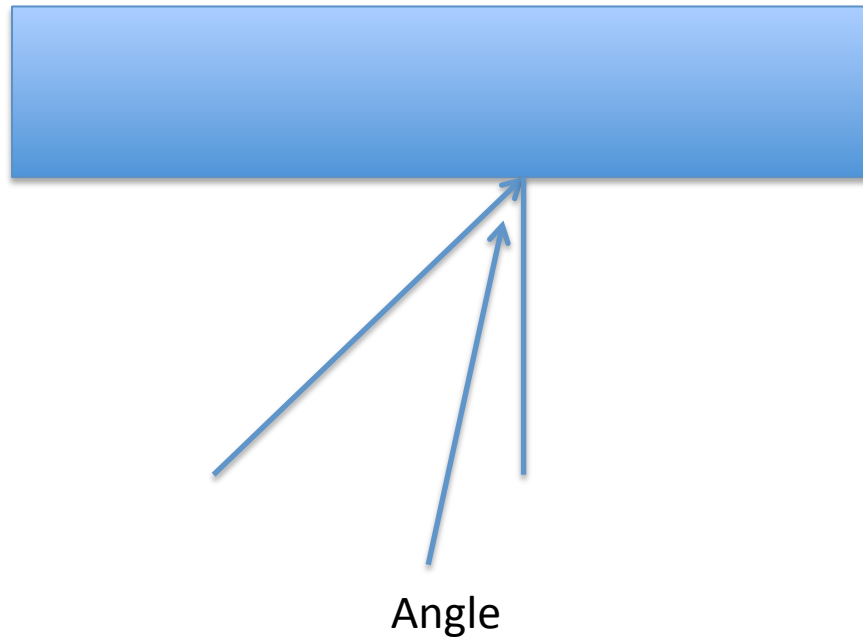


# Using another fitting function (CsI Removed)



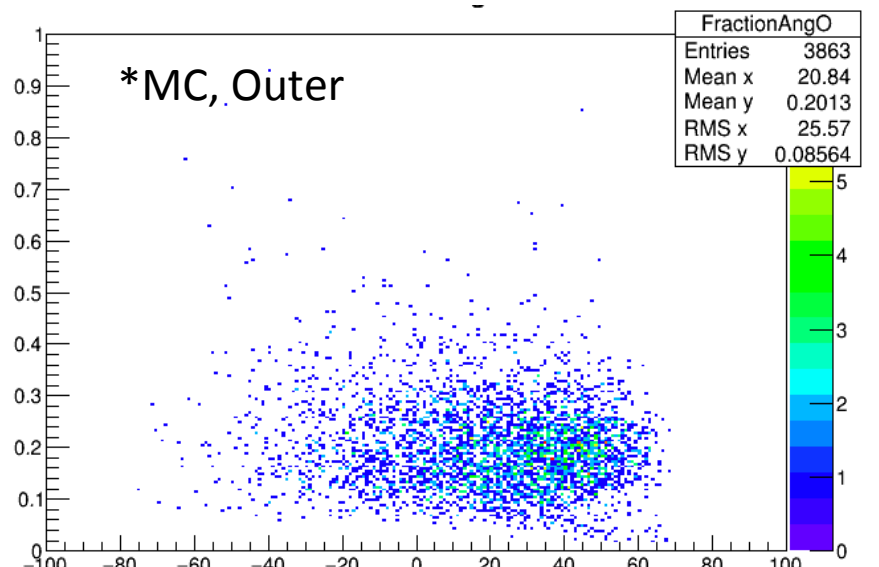
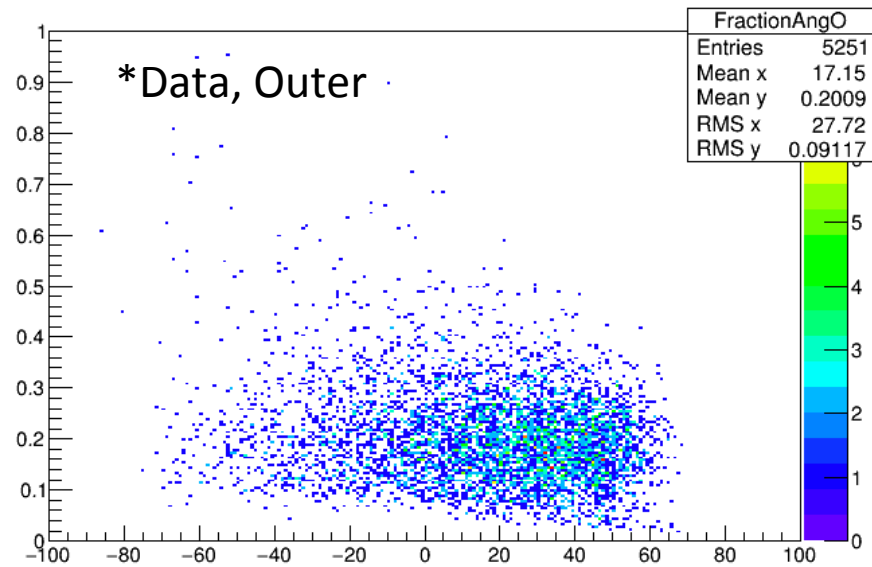
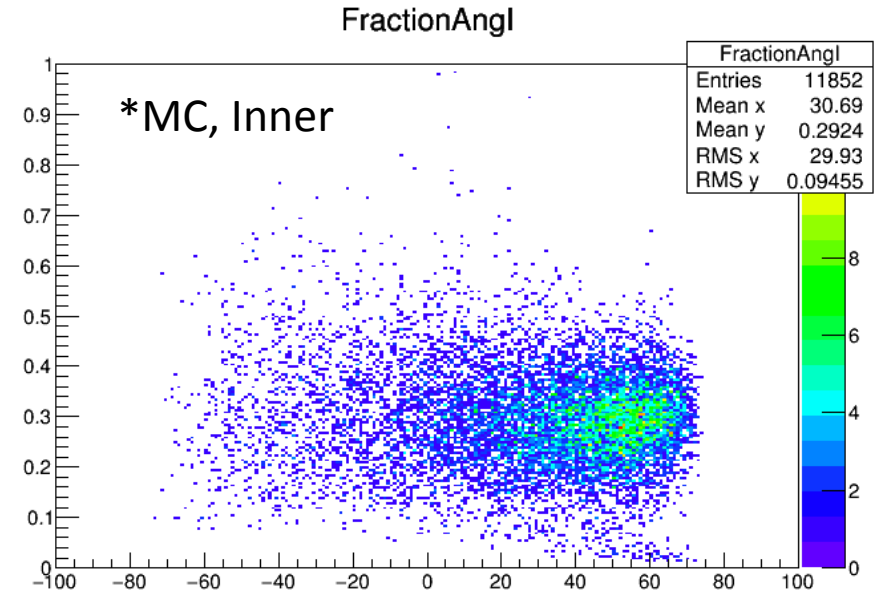
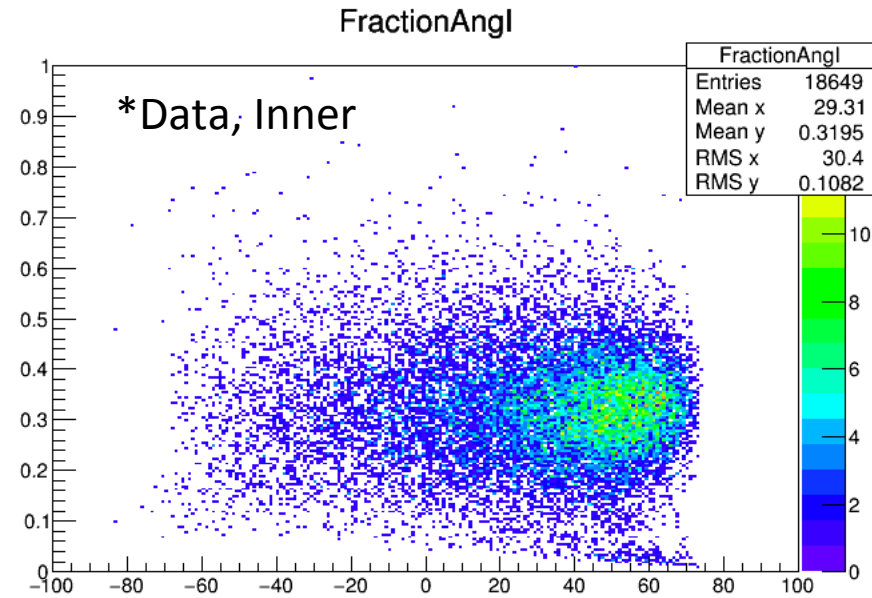
# Sampling fraction vs Incident angle

- Check angle dependency



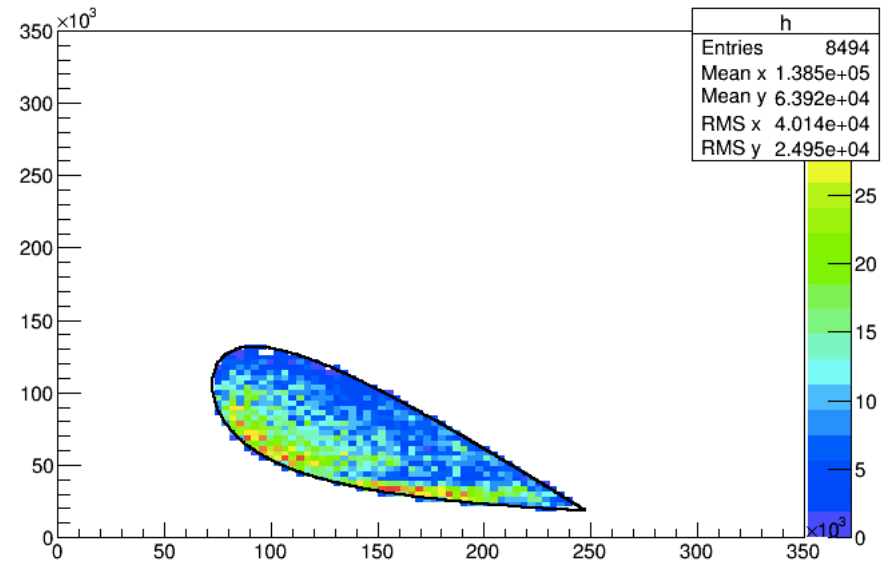
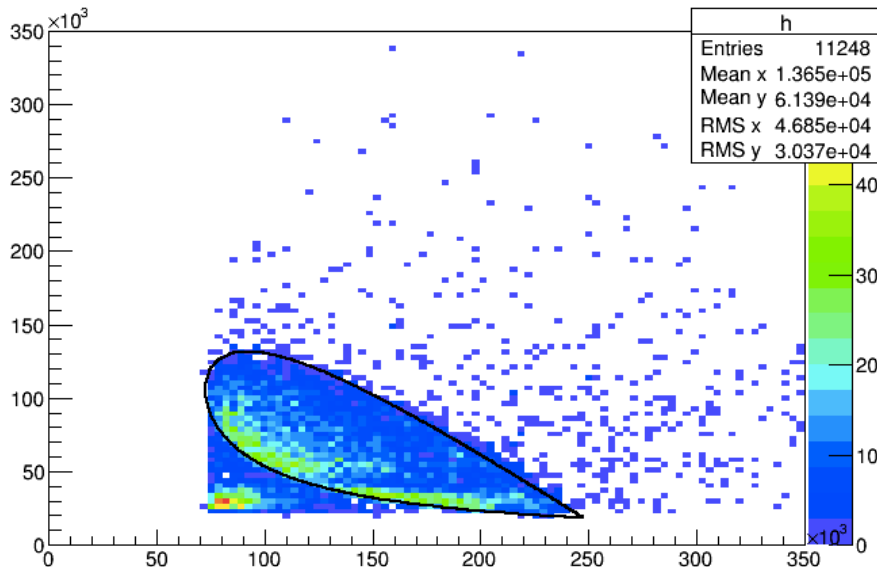


# Sampling fraction vs Incident angle

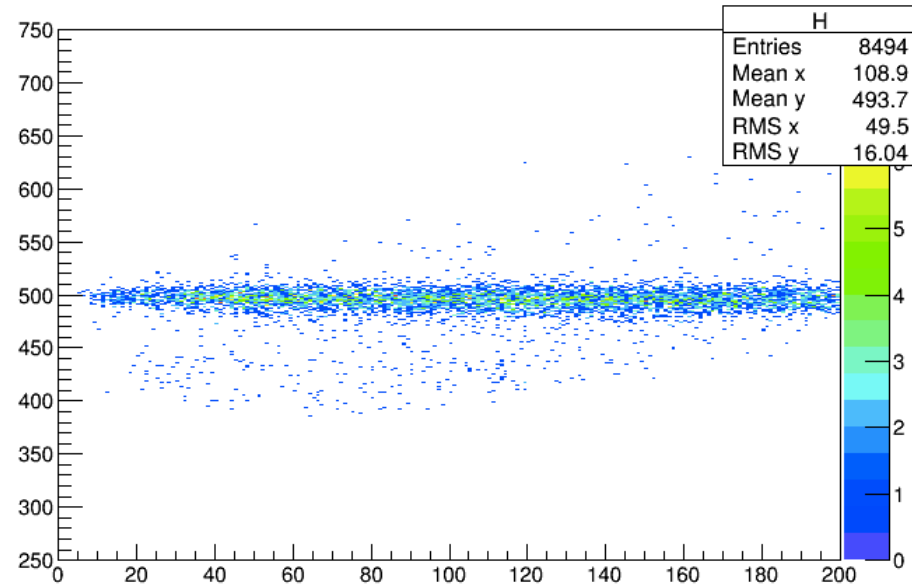
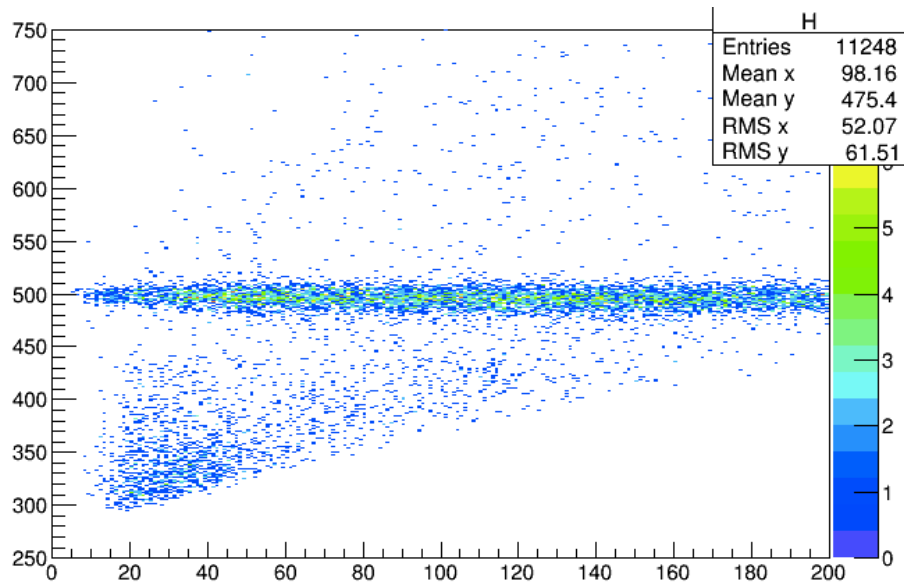


# Pipig with modified vertex position

- Vertex\_X,Y determined by COE
- With dalitz cut
  - X-axis : pipi mass
  - Y-axis : pig mass

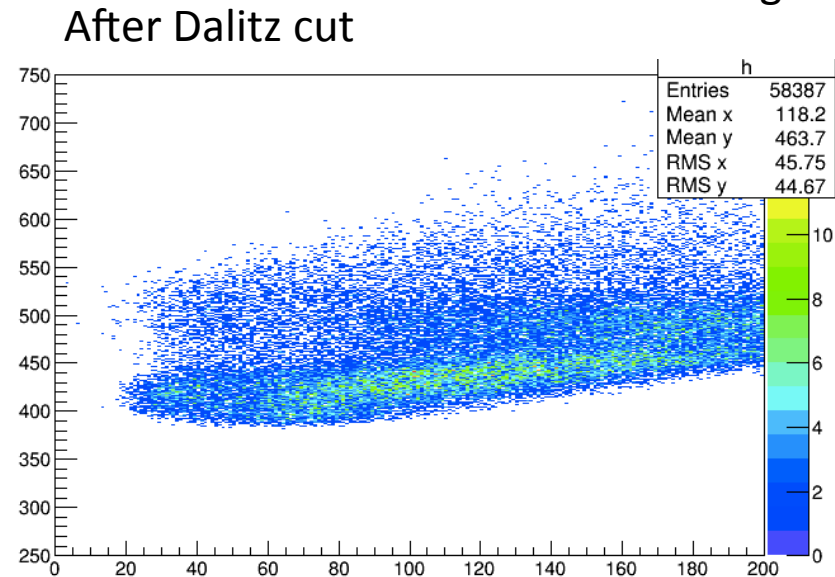
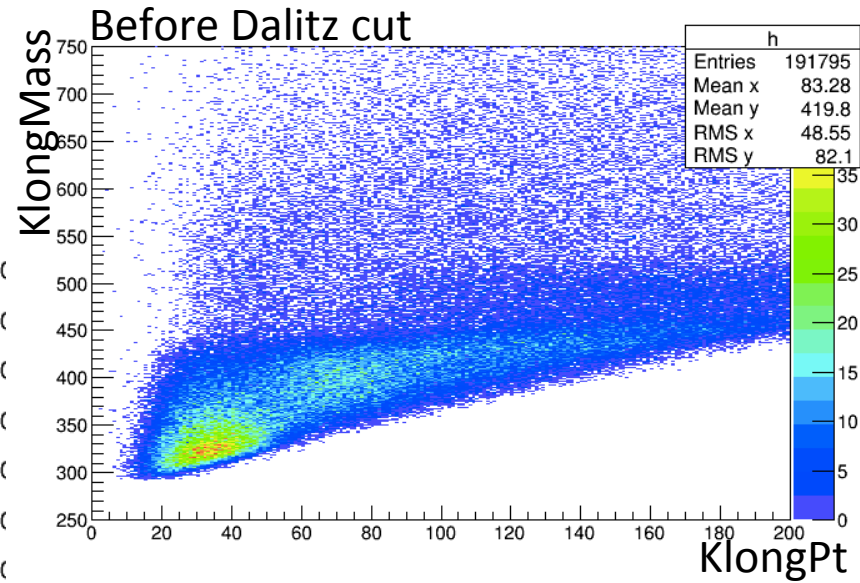
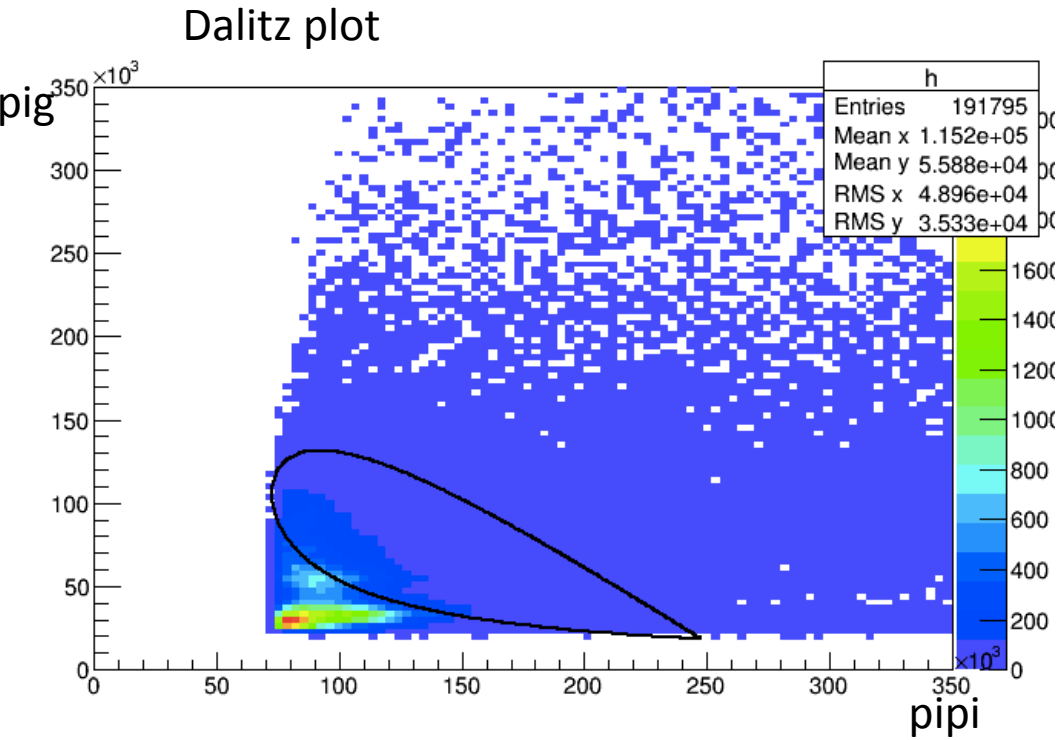


# Mass vs KlongPt



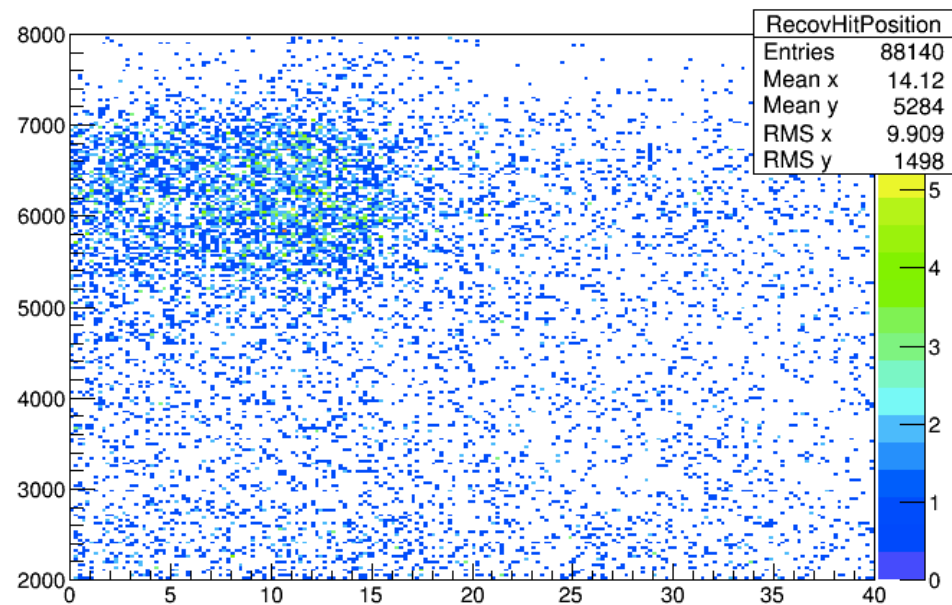
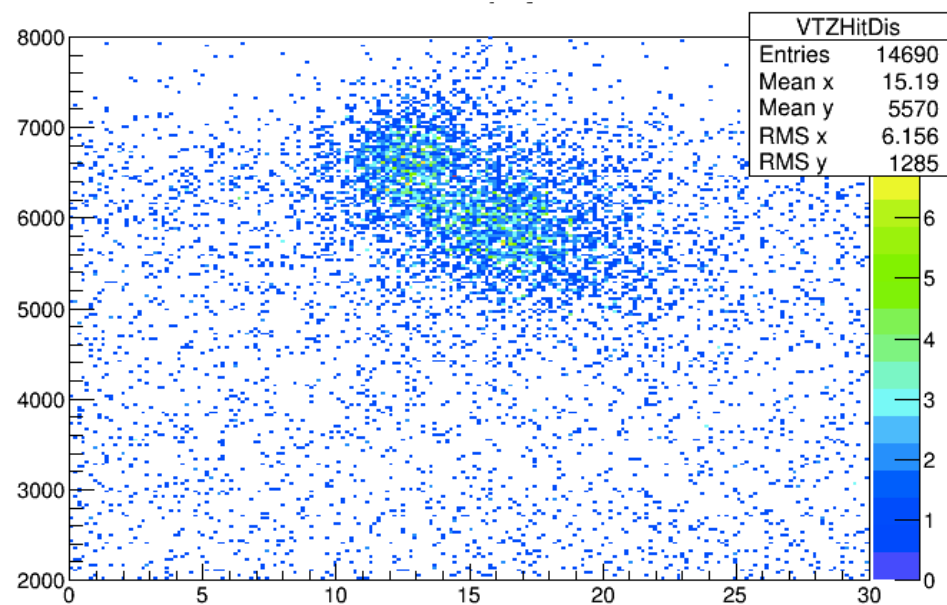
- Effectively removed low-mass region

# Data (Run65)



# Back splash recovery

- Why g6ana?
  - There should be no signal in Barrel when kl3pi0 reconstruction are well done.
- MB in Run69
  - Upstream Region( $\sim 5500\text{mm}$ ) is covered by IB

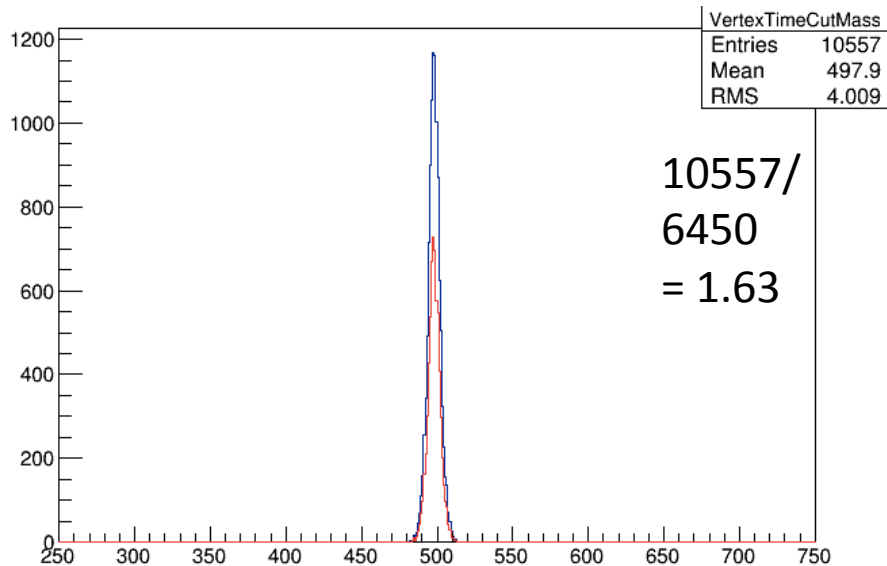


# Recovery strategy

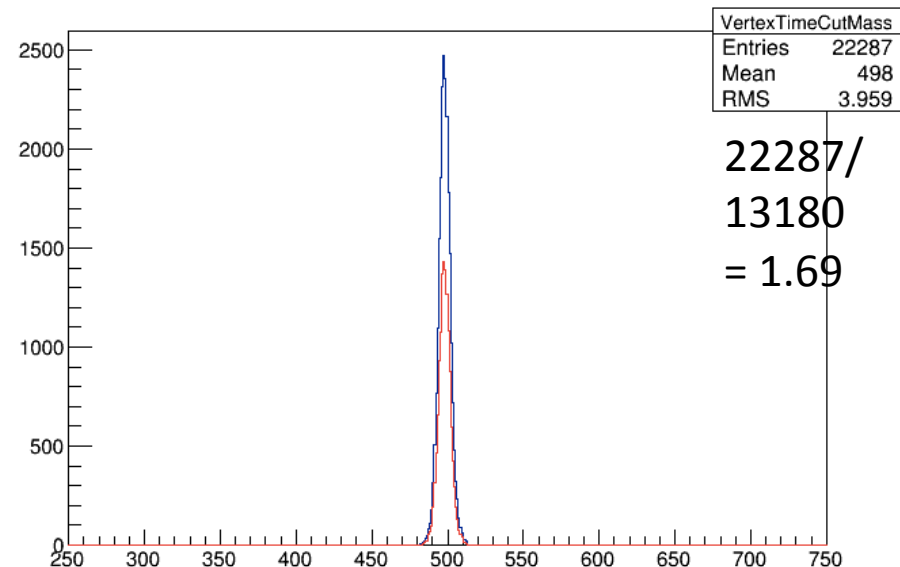
- Vertex time difference should be in offset from result of  $5g+1g$  analysis
- If vertex time difference is sufficiently far from the offset,
  - We can save events even if there is signal in Barrel
- If vertex time difference is in offset with resolution,
  - We should reject events because time of signal in barrel is deeply related to Csl signal

# Recovery efficiency

- Recovery efficiency in g6ana=
  - #events using vertex time veto window /  
#events using Barrel mean time veto window



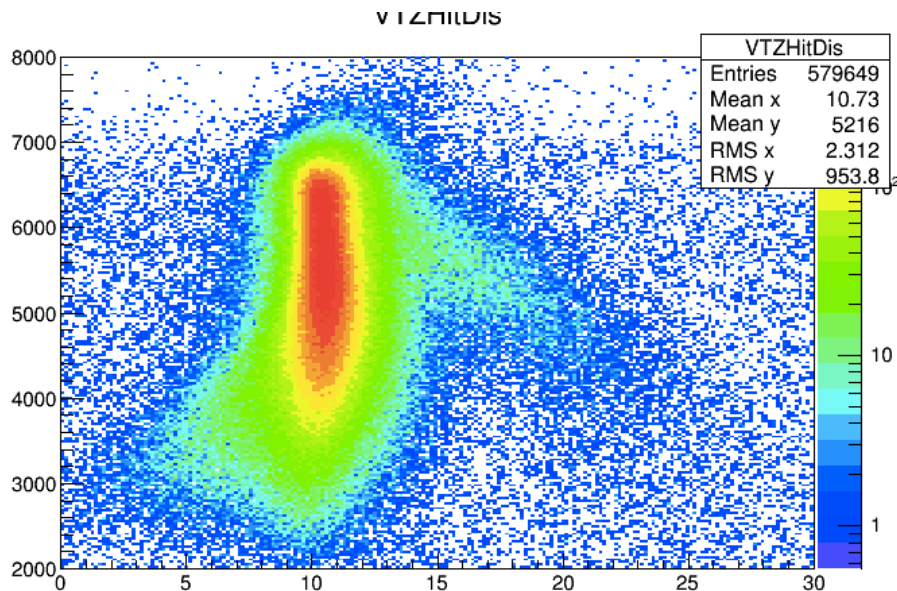
IB+MB(run69, min bias)



# At g4ana

- In g4ana, there are two factors
  - 1) missing 2gammas from kl3pi0
  - 2) back splash event from Csl

MB



IB

