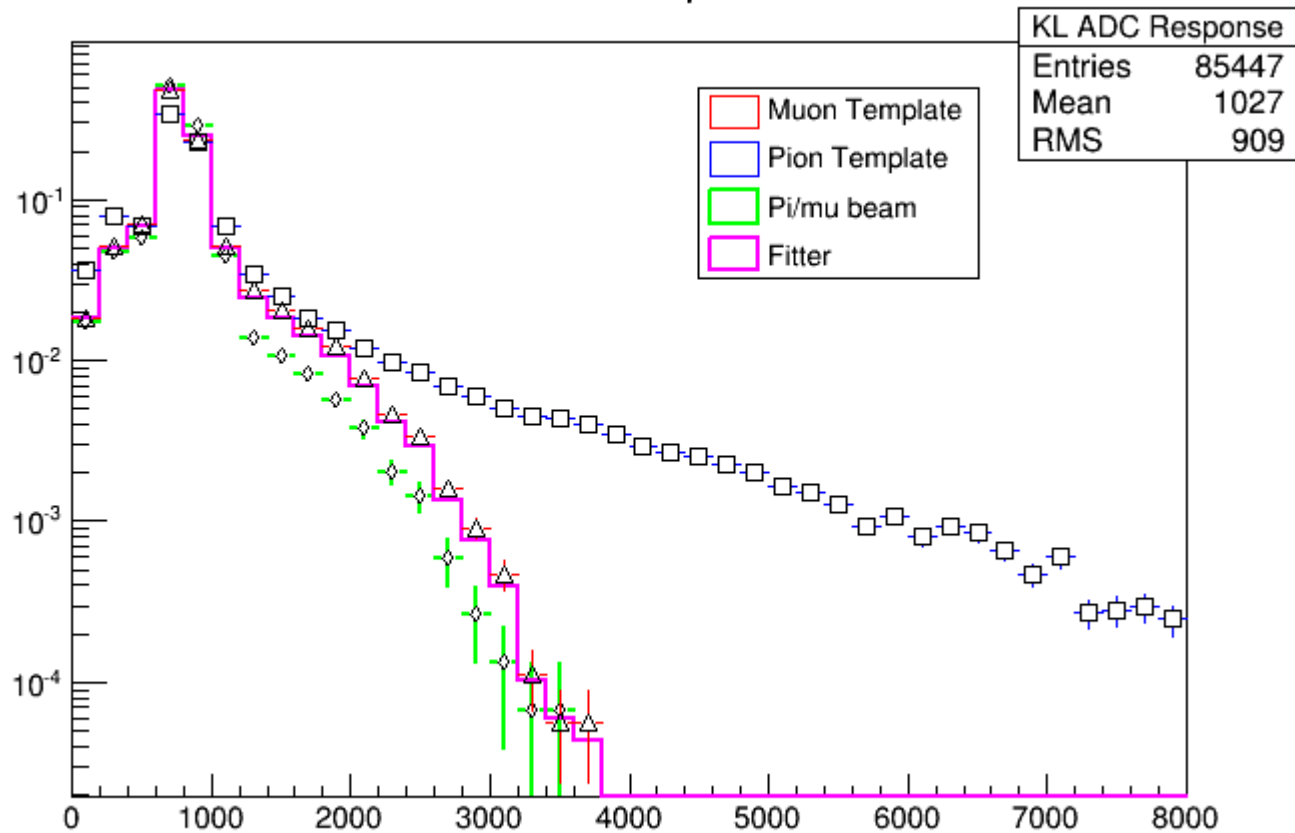


# Smearing - sqrt(Num\_phe) thresholds - 0.01

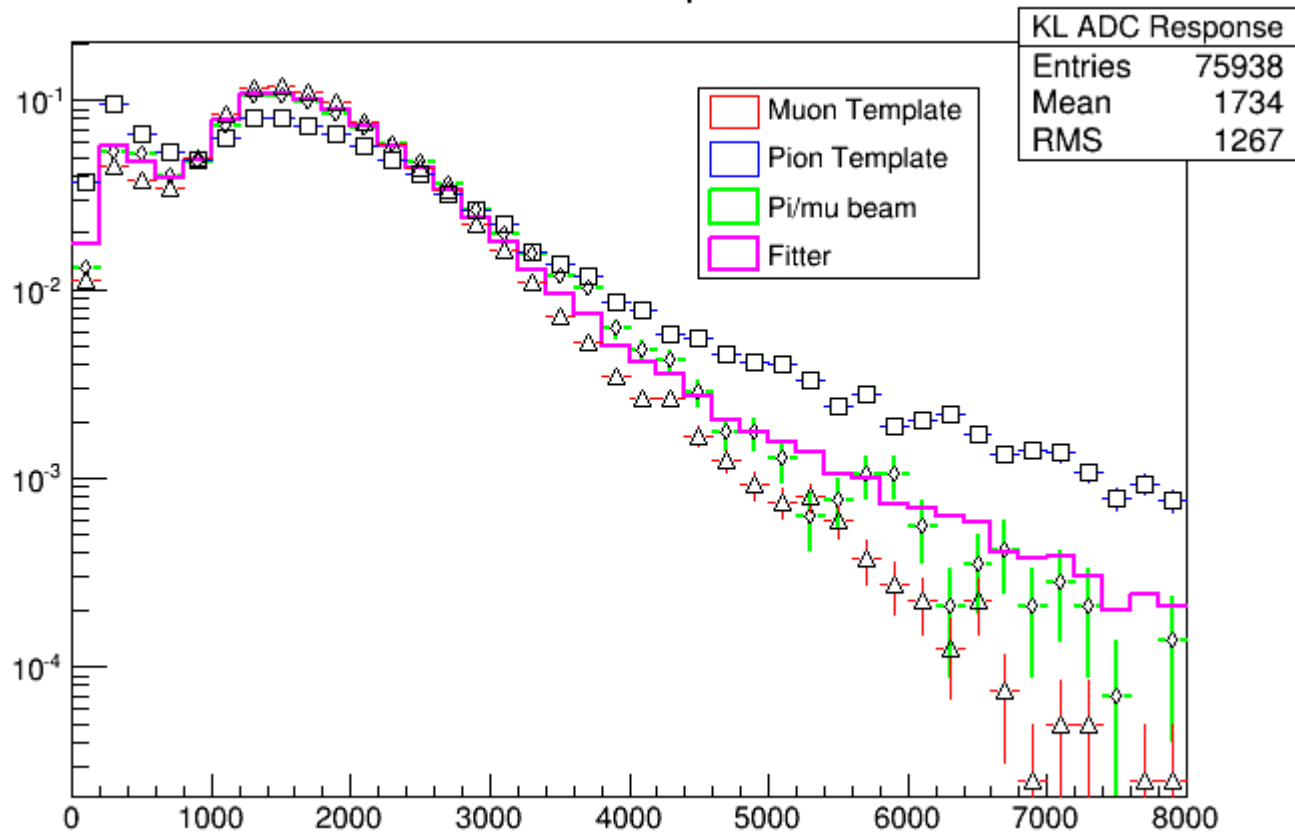
KL ADC Response



Despite the change of smearing factor and reduced threshold this is nearly identical to the plot shown at the meeting.

# Smearing - 10 phe thresholds - 0.01

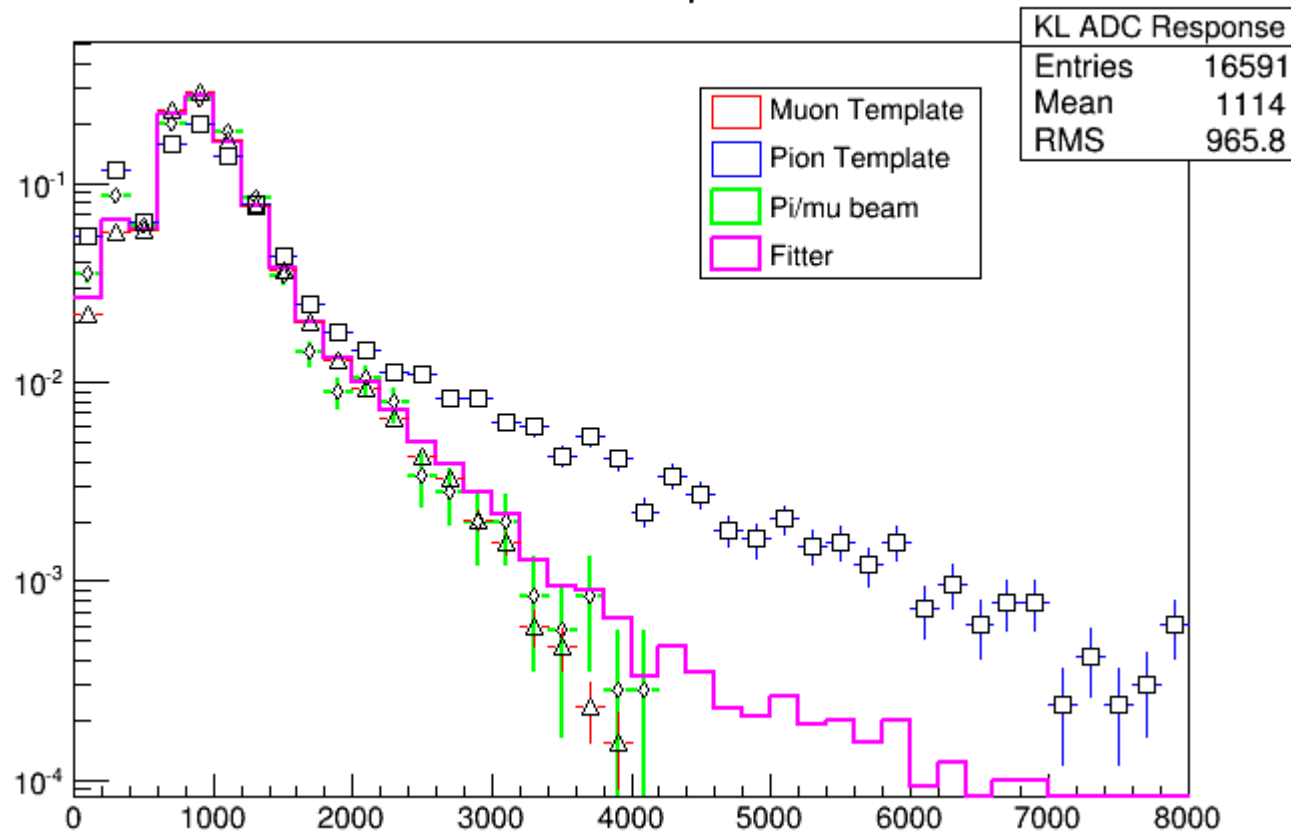
KL ADC Response



Increasing the smearing to this level clearly overestimates the width of the peak.

# Smearing - 3 phe thresholds - 0.01

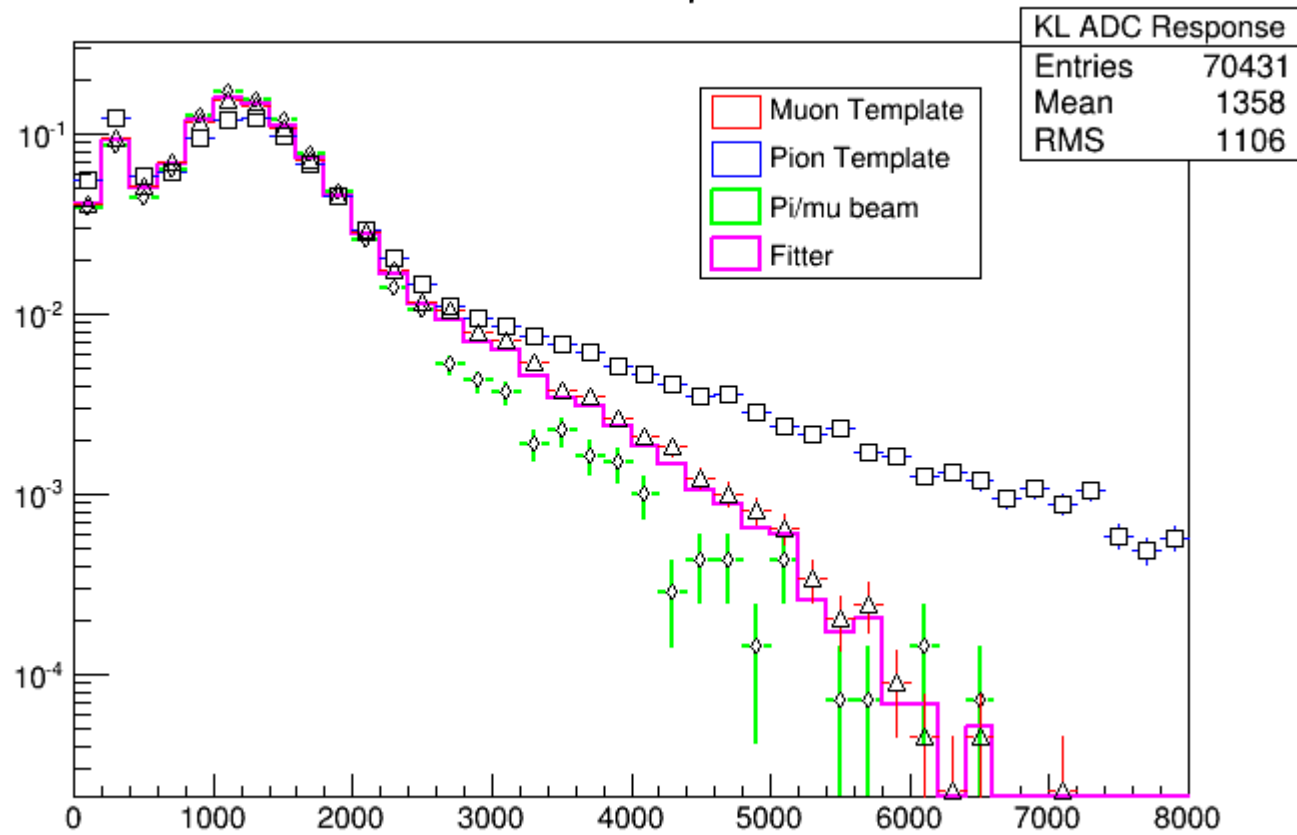
KL ADC Response



The width of the peak is increased with the increased smearing factor however the tails remain absent for the template and muon run.

# Smearing - 3 phe thresholds - 0.001

KL ADC Response



Further reducing the thresholds increases the tails and also widens the peak

- Smearing and thresholds can reproduce the behaviour in the tails of the KL response
  - Now need to iterate to the correct combination of these two factors.
  - Next simulation will have a smaller smearing factor but lower thresholds