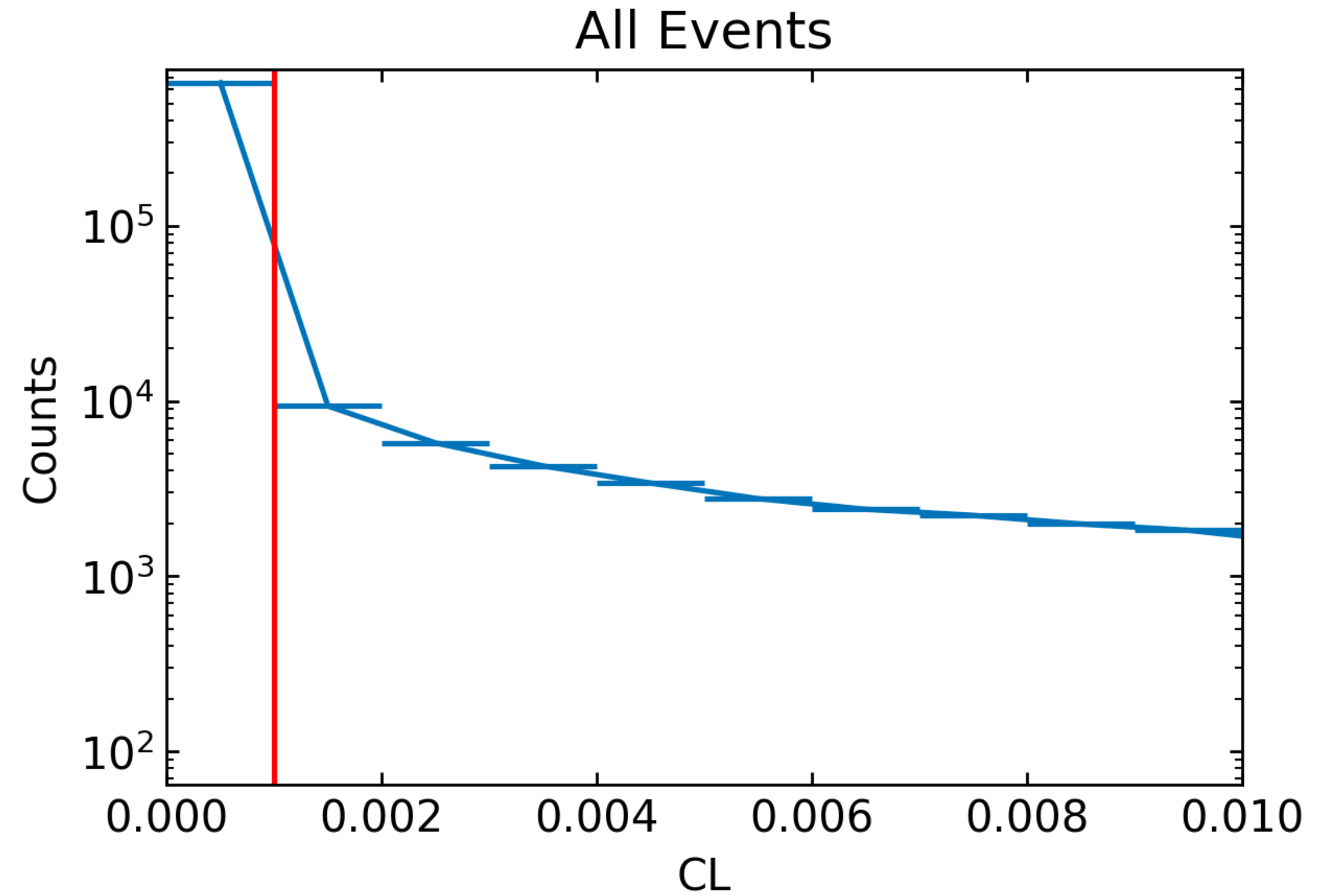
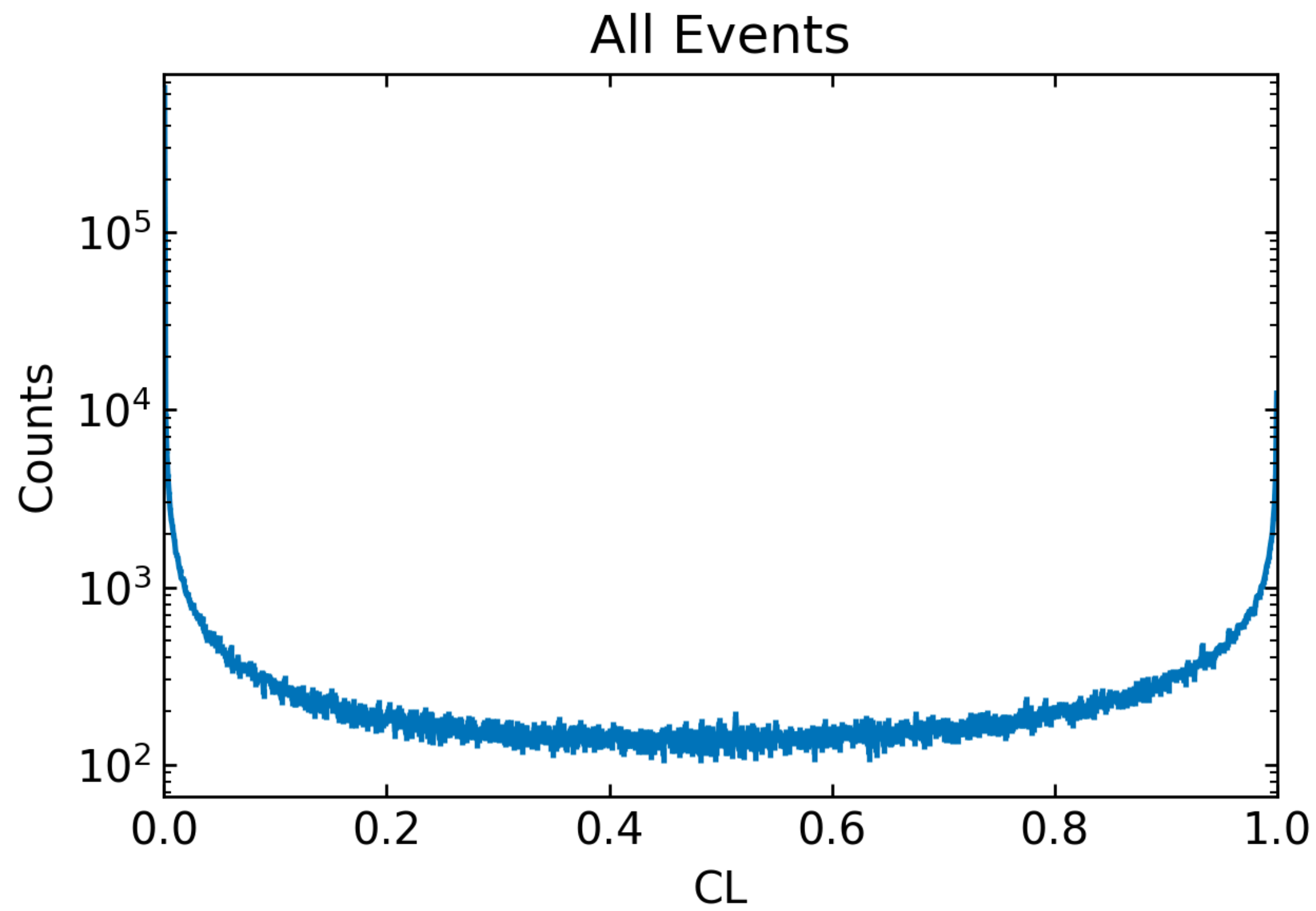


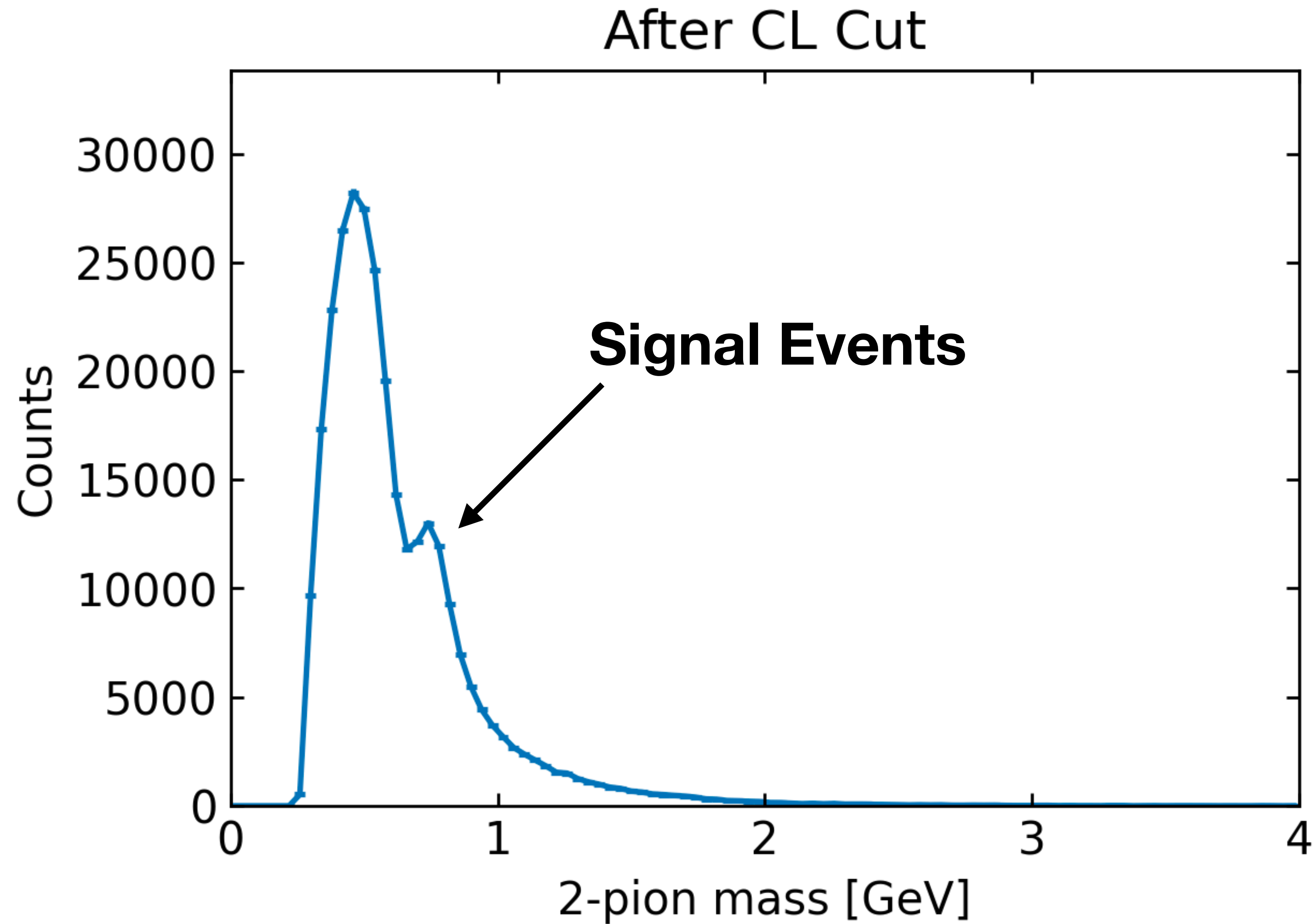
# $\gamma(n, \rho^- p)$ Channel

- 1 positive + 1 negative charged track, 2 neutral showers
- Kinematic fit:
  - Common vertex position
  - $m_{\gamma\gamma} = m_{\pi^0}$

# Cut on $CL > 0.001$

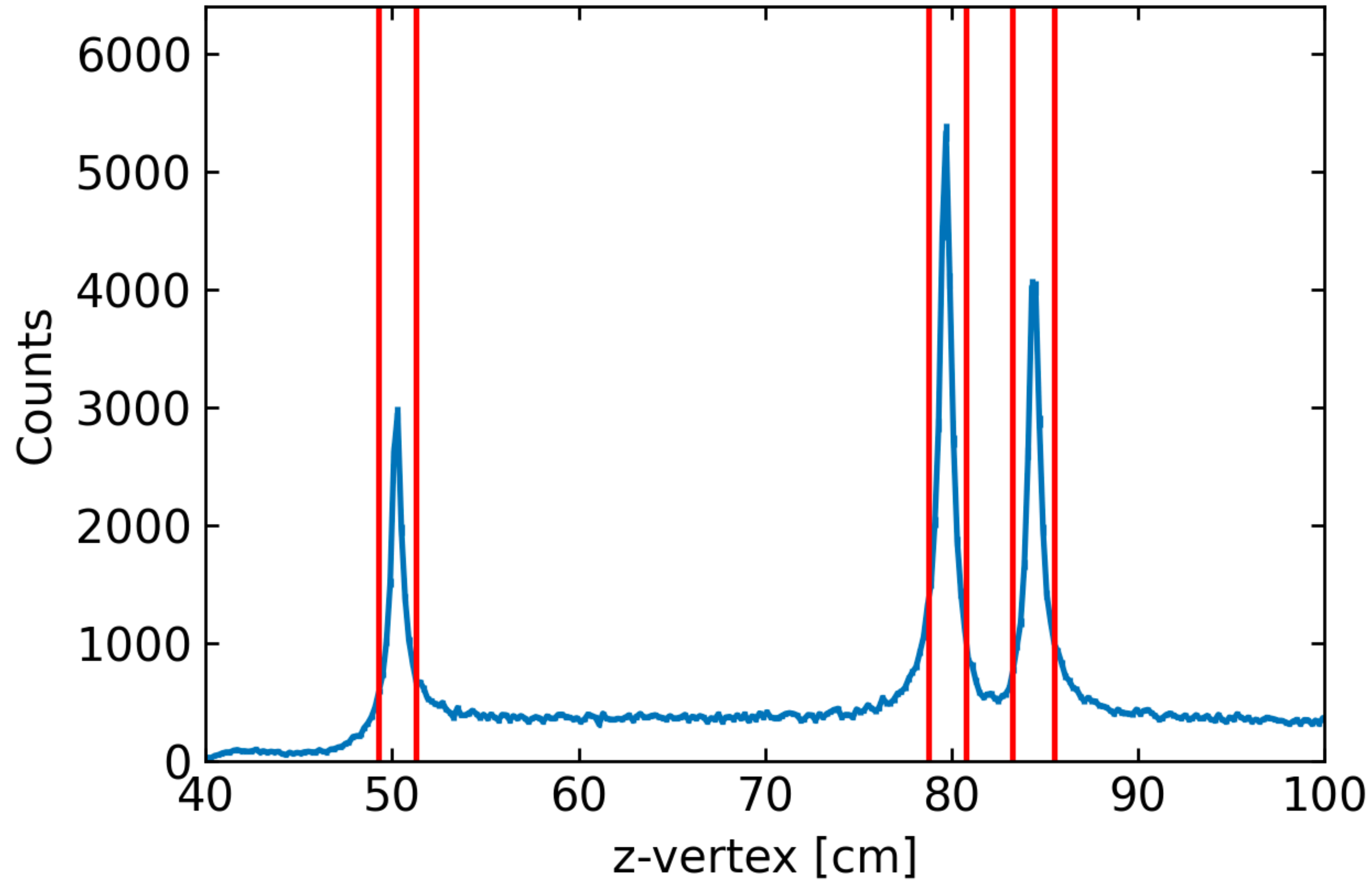


# 2-Pion Mass Spectrum



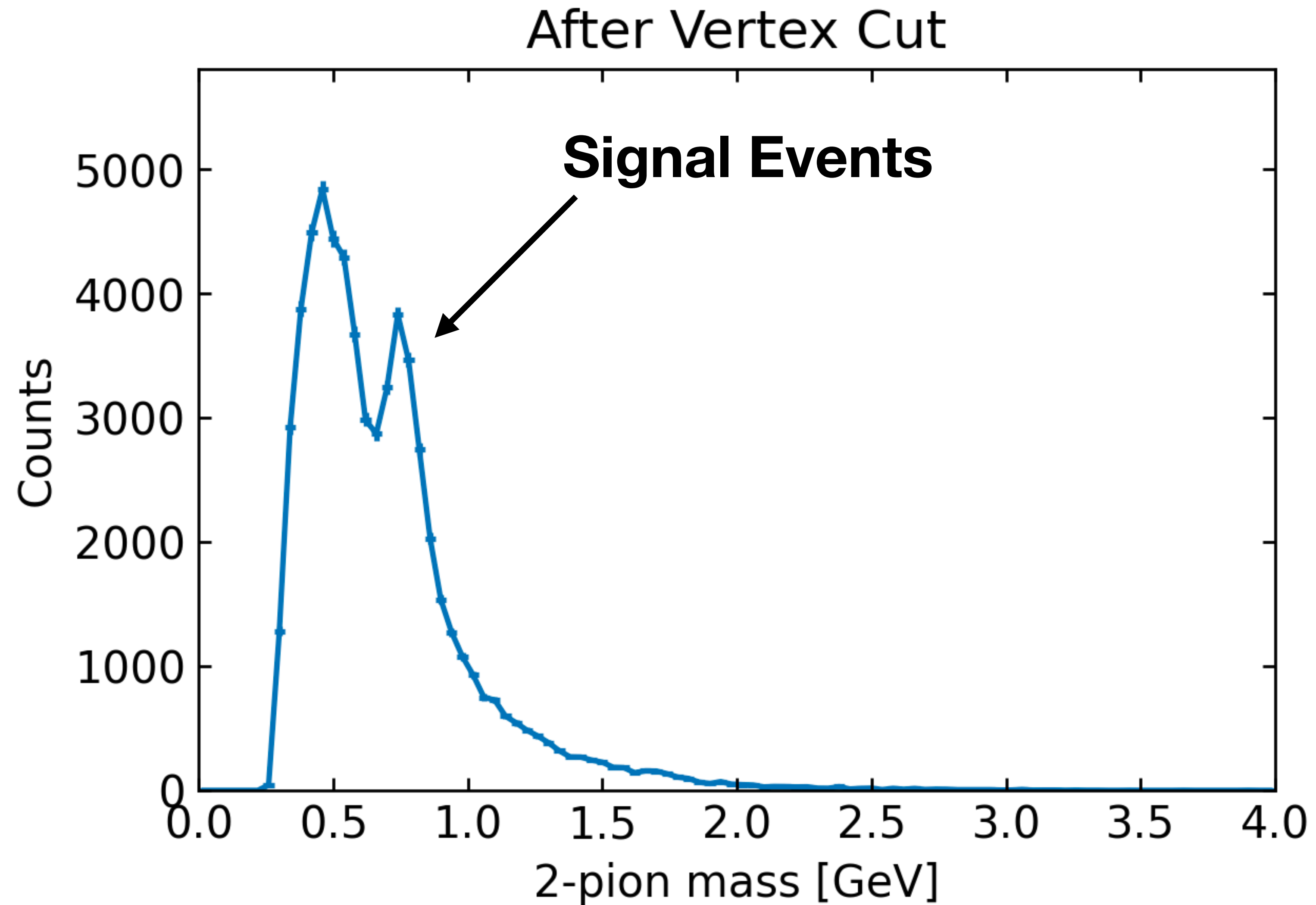
# Z-Vertex Spectrum

After CL Cut



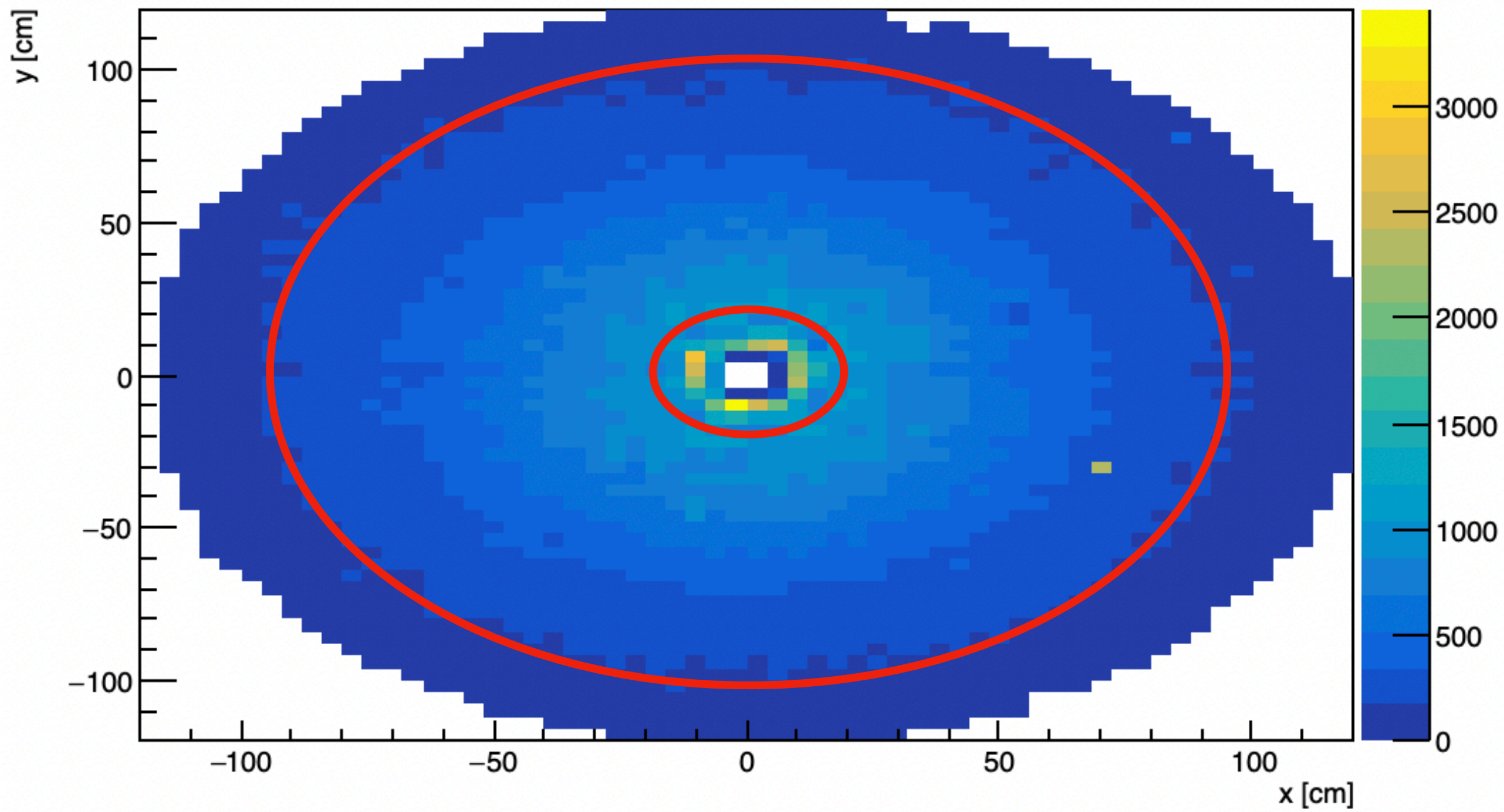
Also  $r < 1$  cm

# Mass Spectrum After Vertex Cut

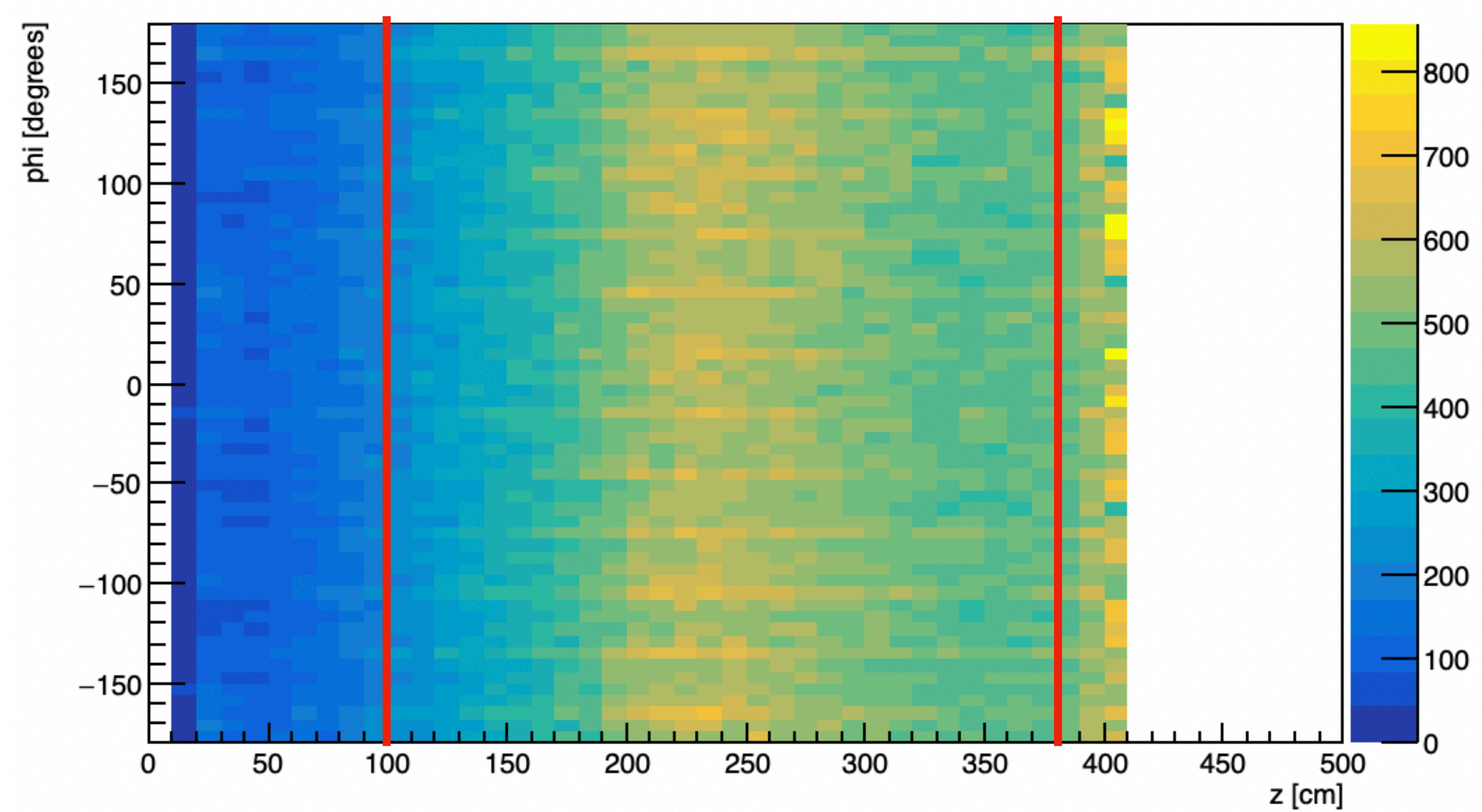


# Neutral Shower Position Cuts

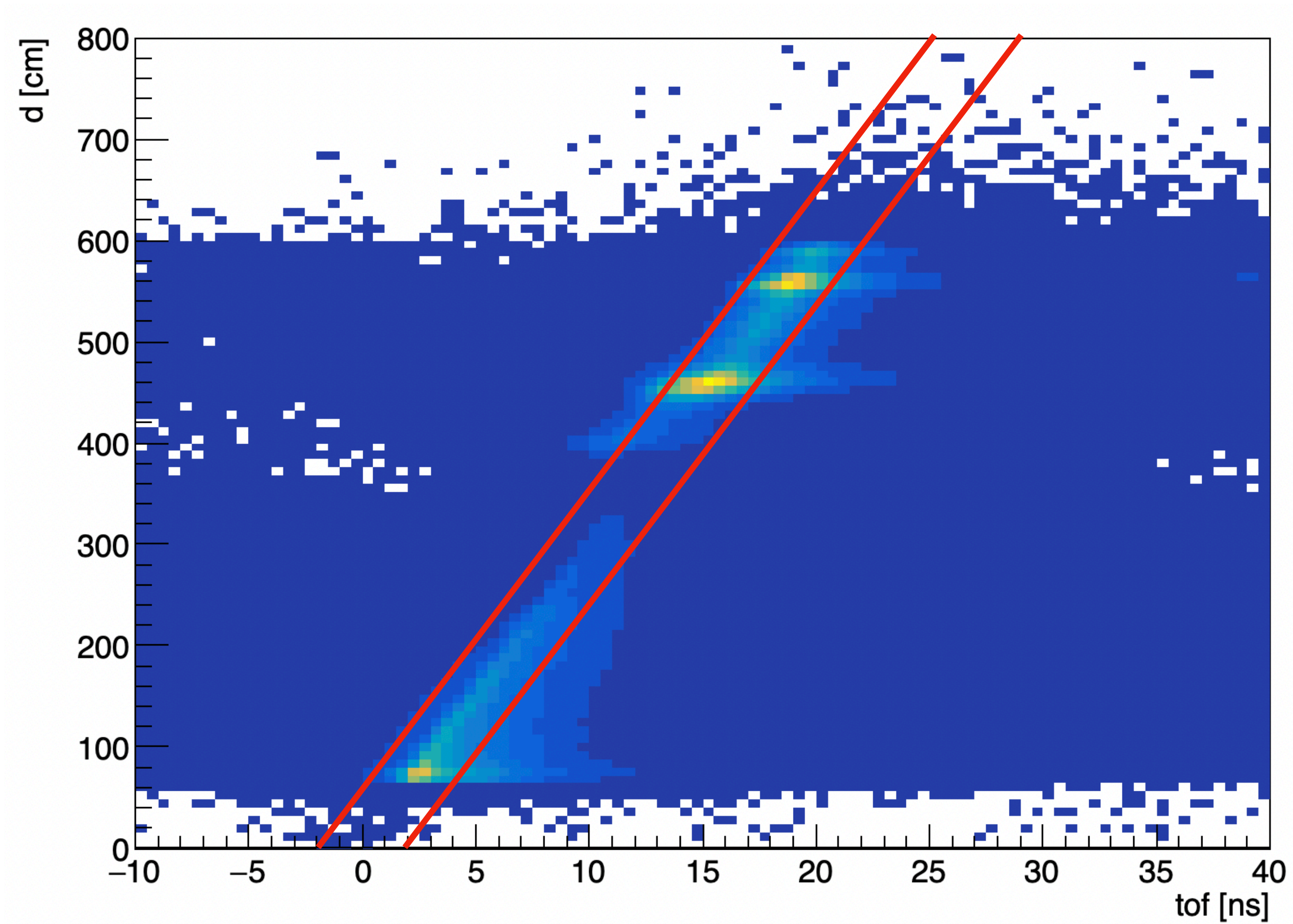
## FCAL



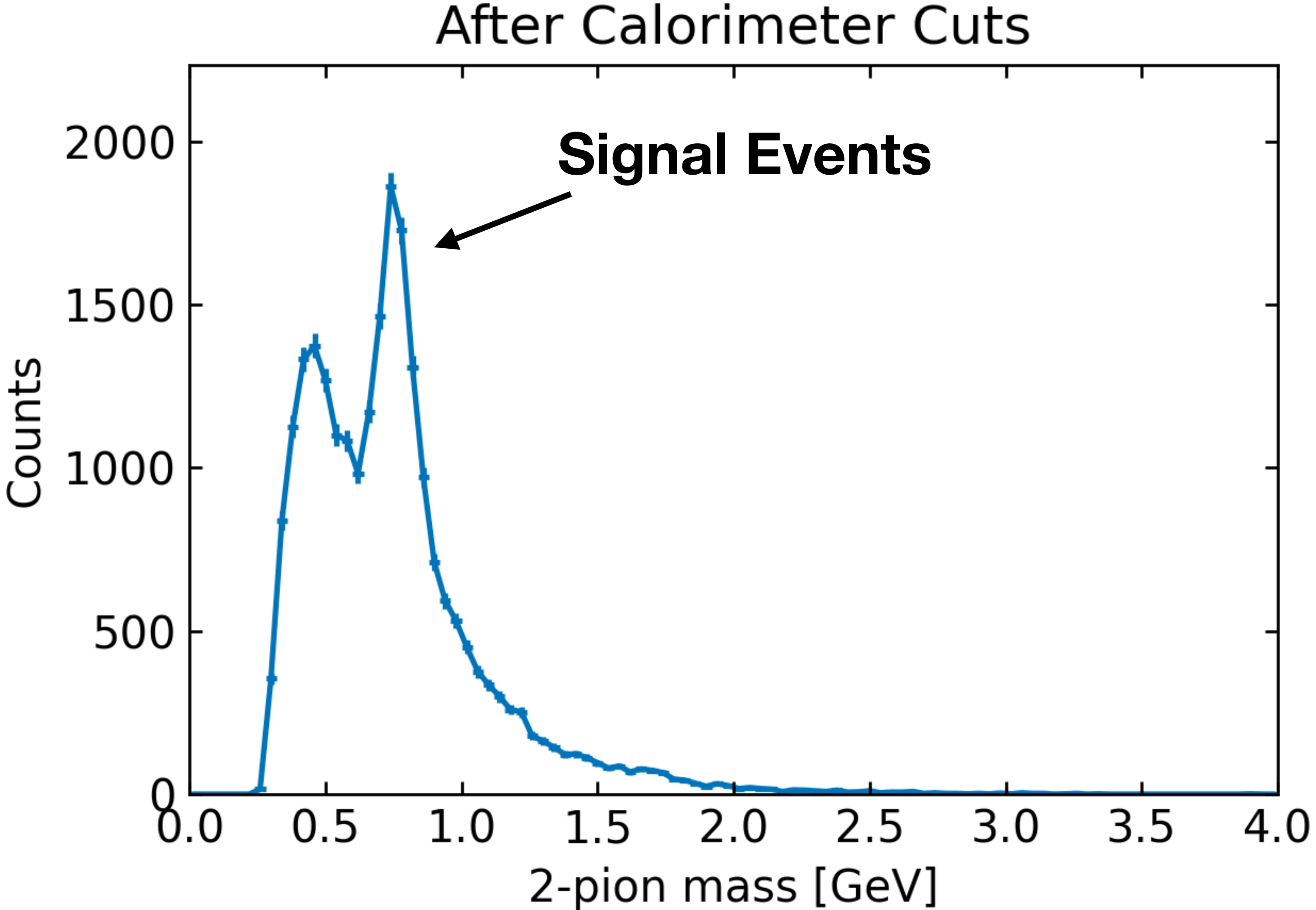
## BCAL



# Neutral Shower Timing Cuts



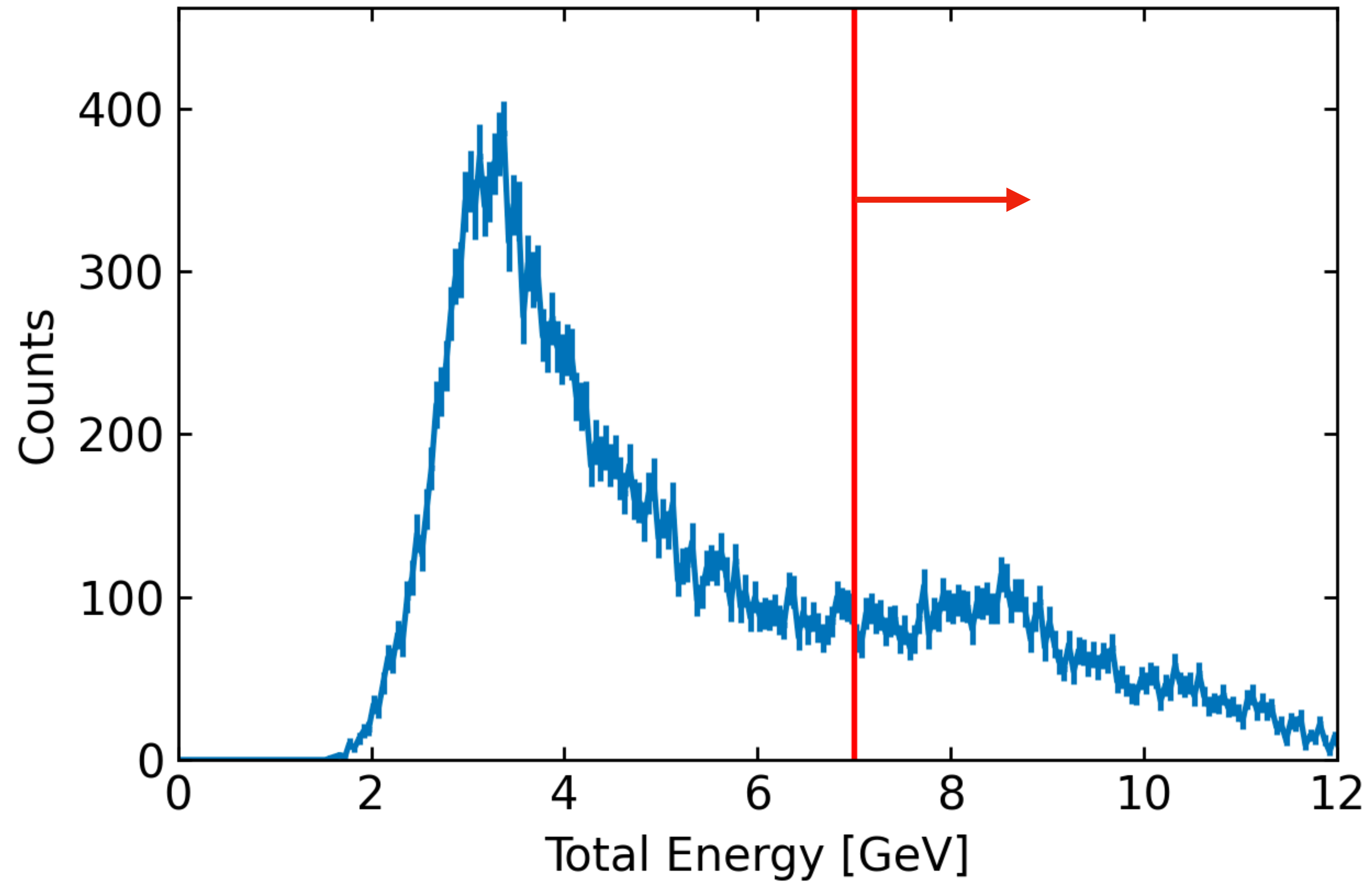
# Mass Spectrum After Calorimeter Cuts



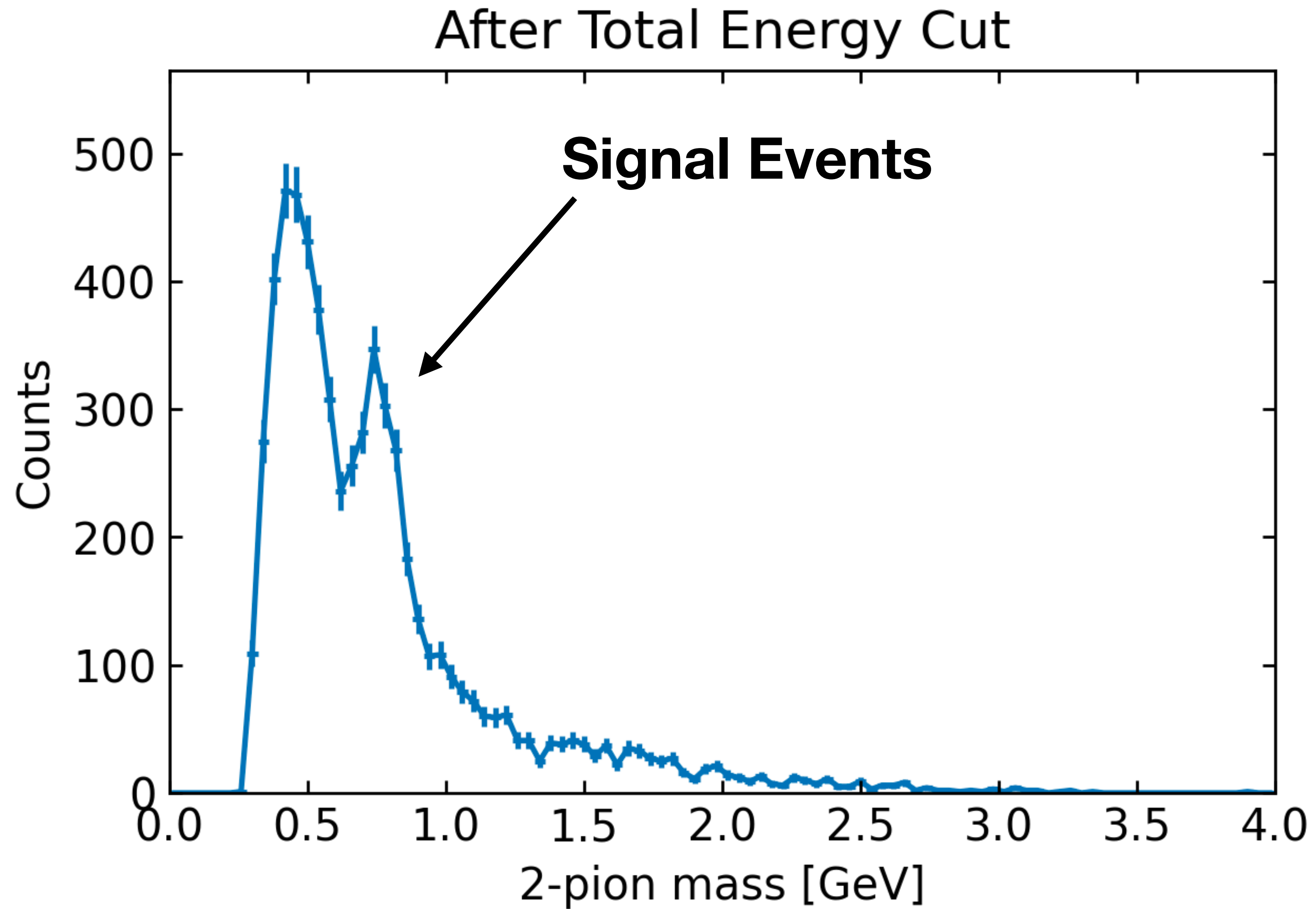


# Measured Energy Spectrum

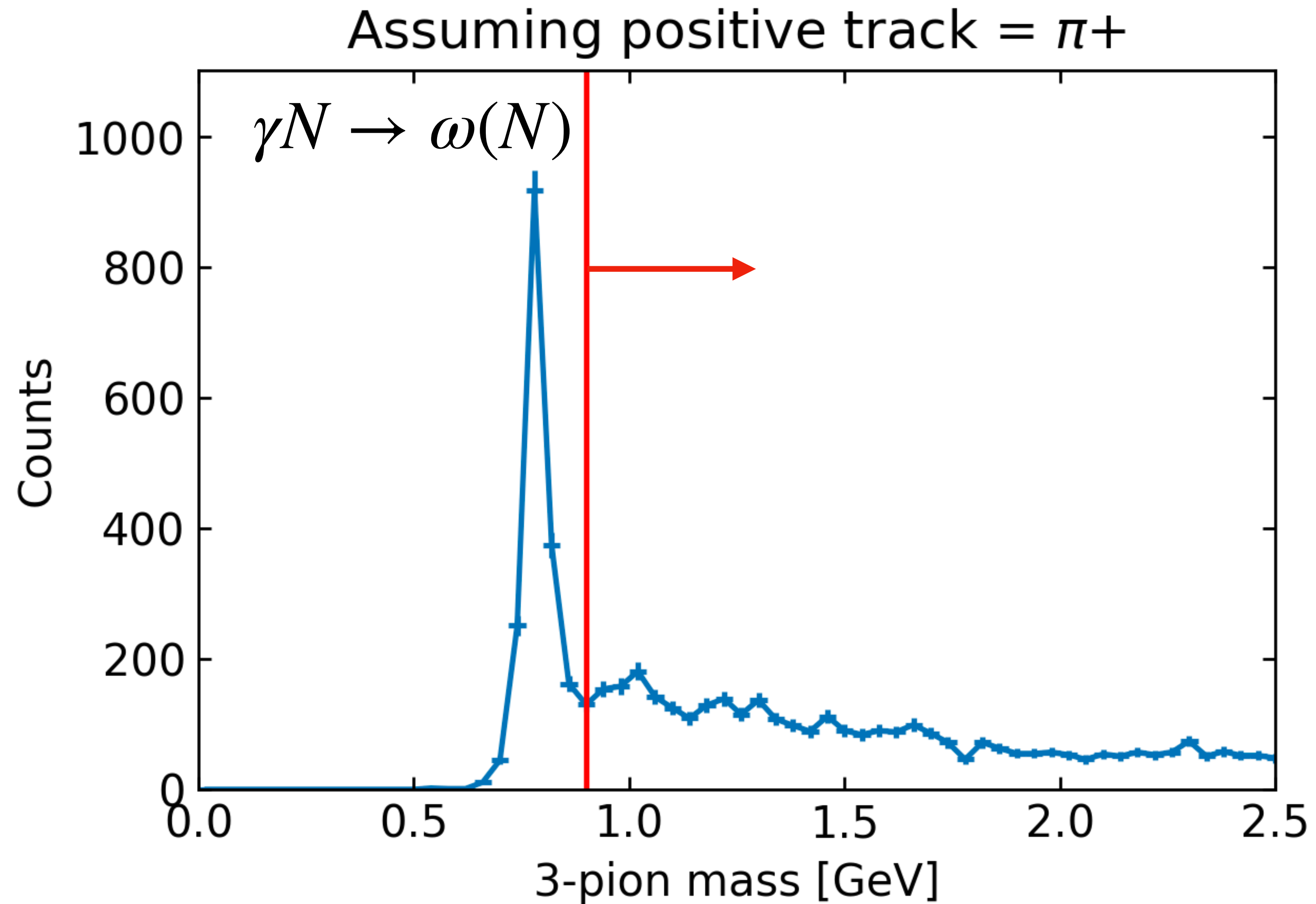
After Calorimeter Cuts



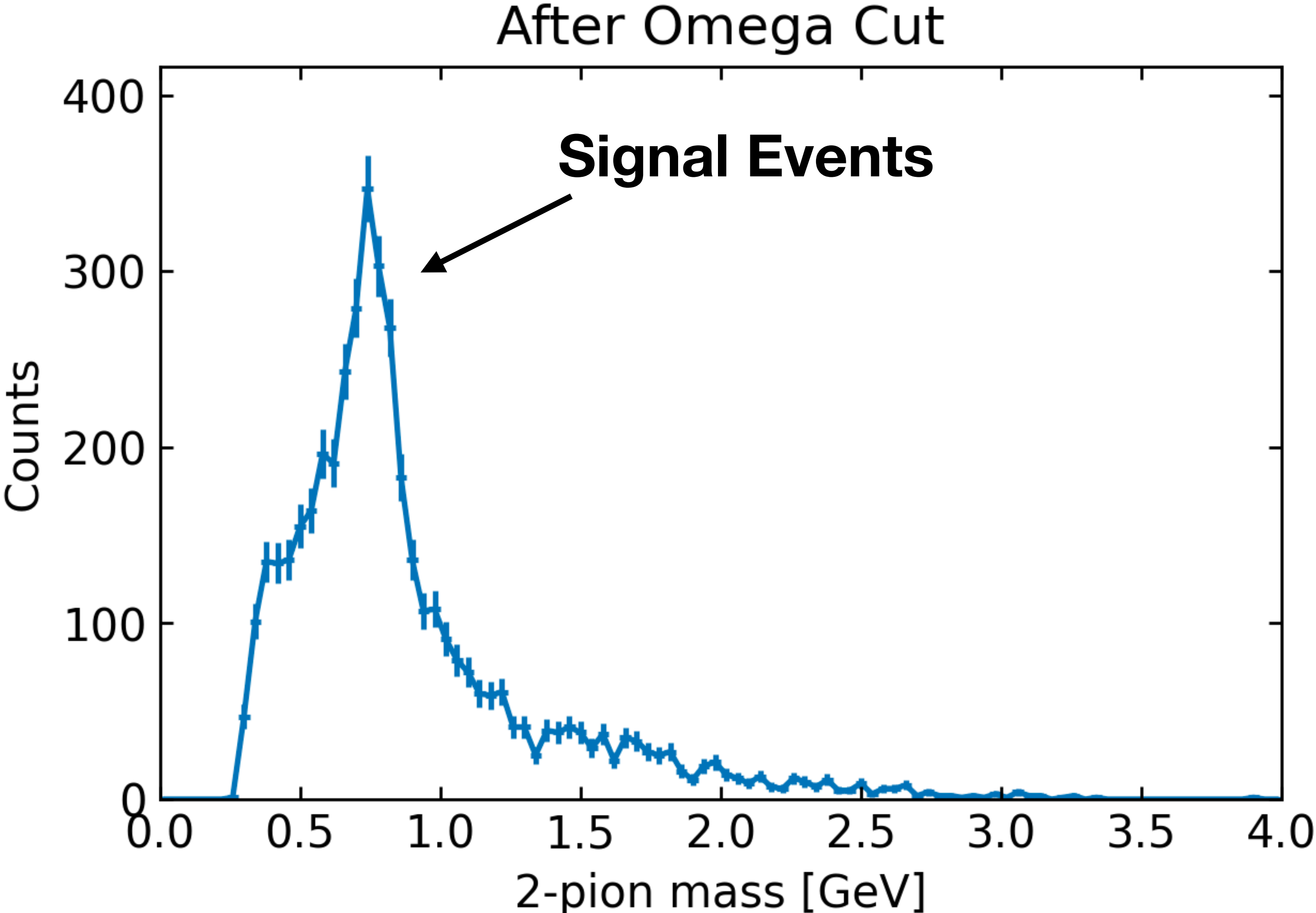
# Mass Spectrum After Energy Cut



# Examine possibility of $\pi^+$ track

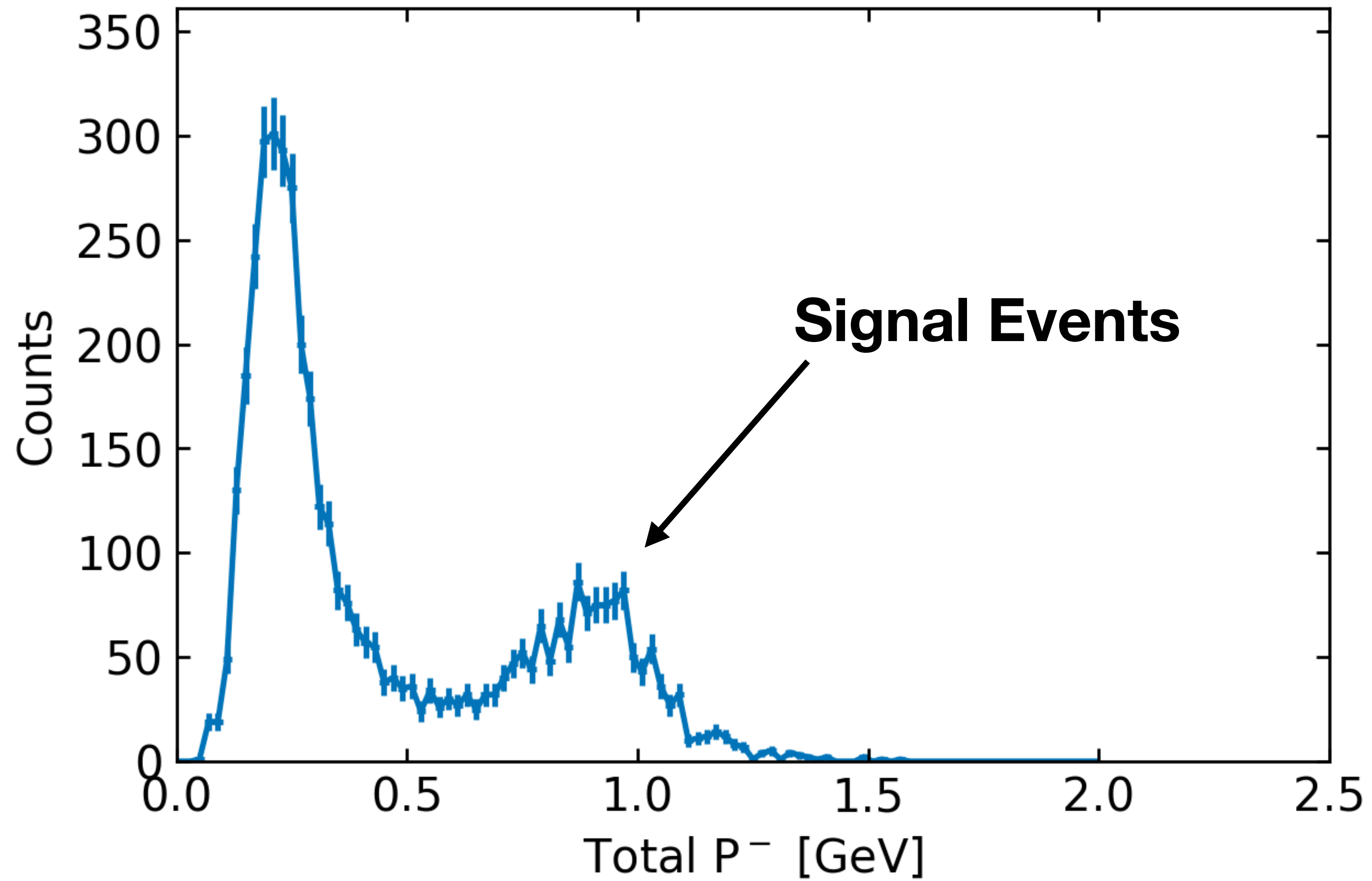


# Mass Spectrum After Omega-Background Cuts

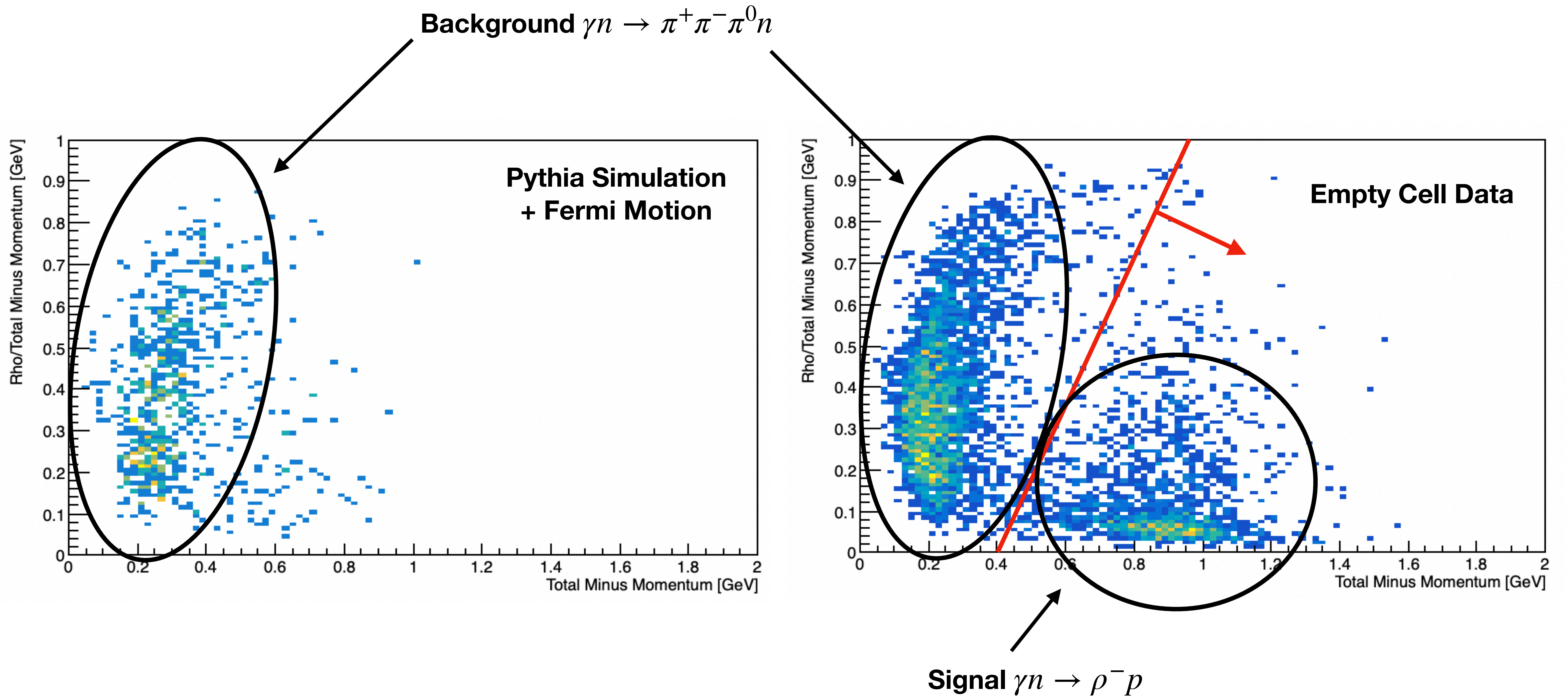


# Low- $p^-$ background

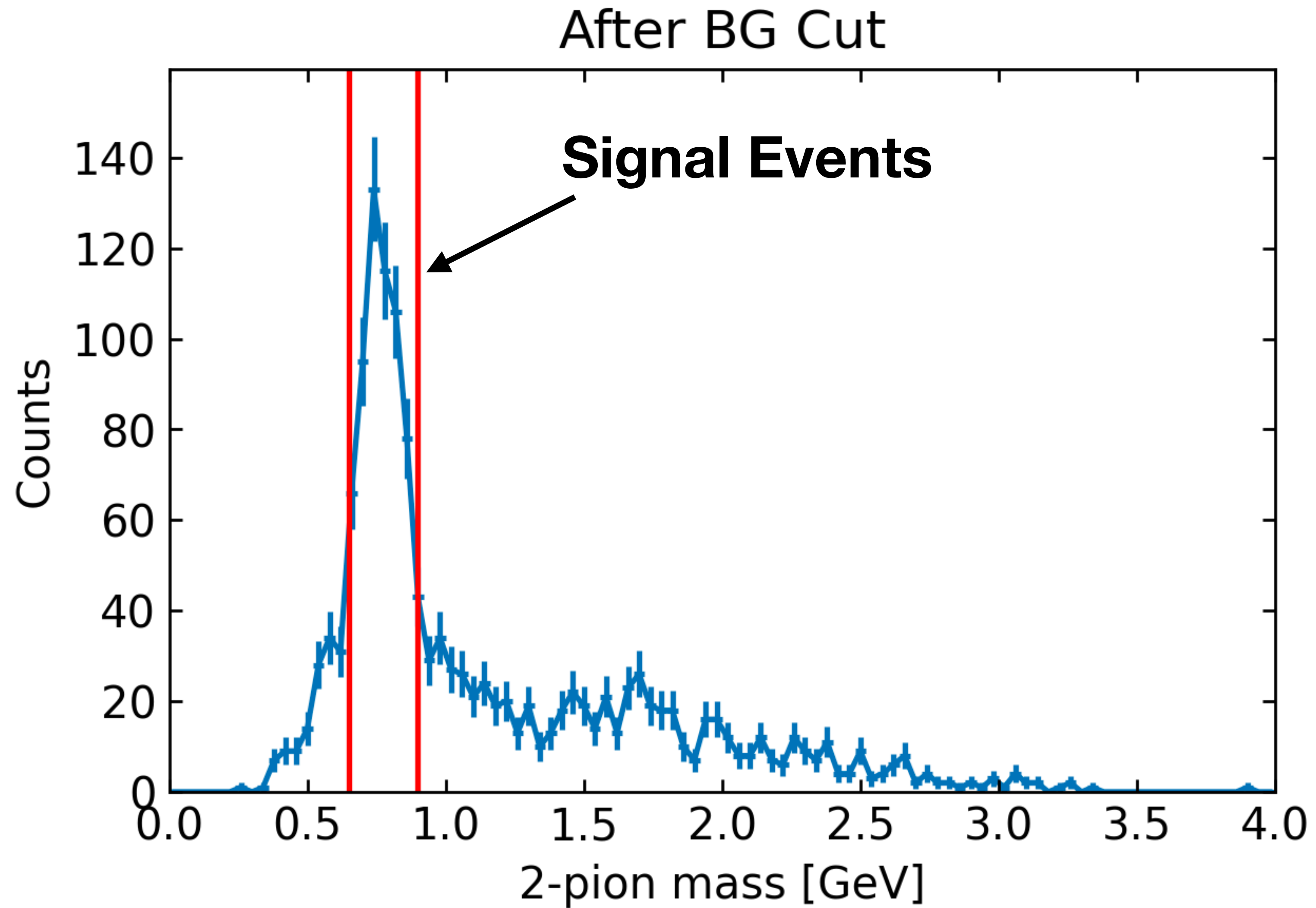
After Omega Cut



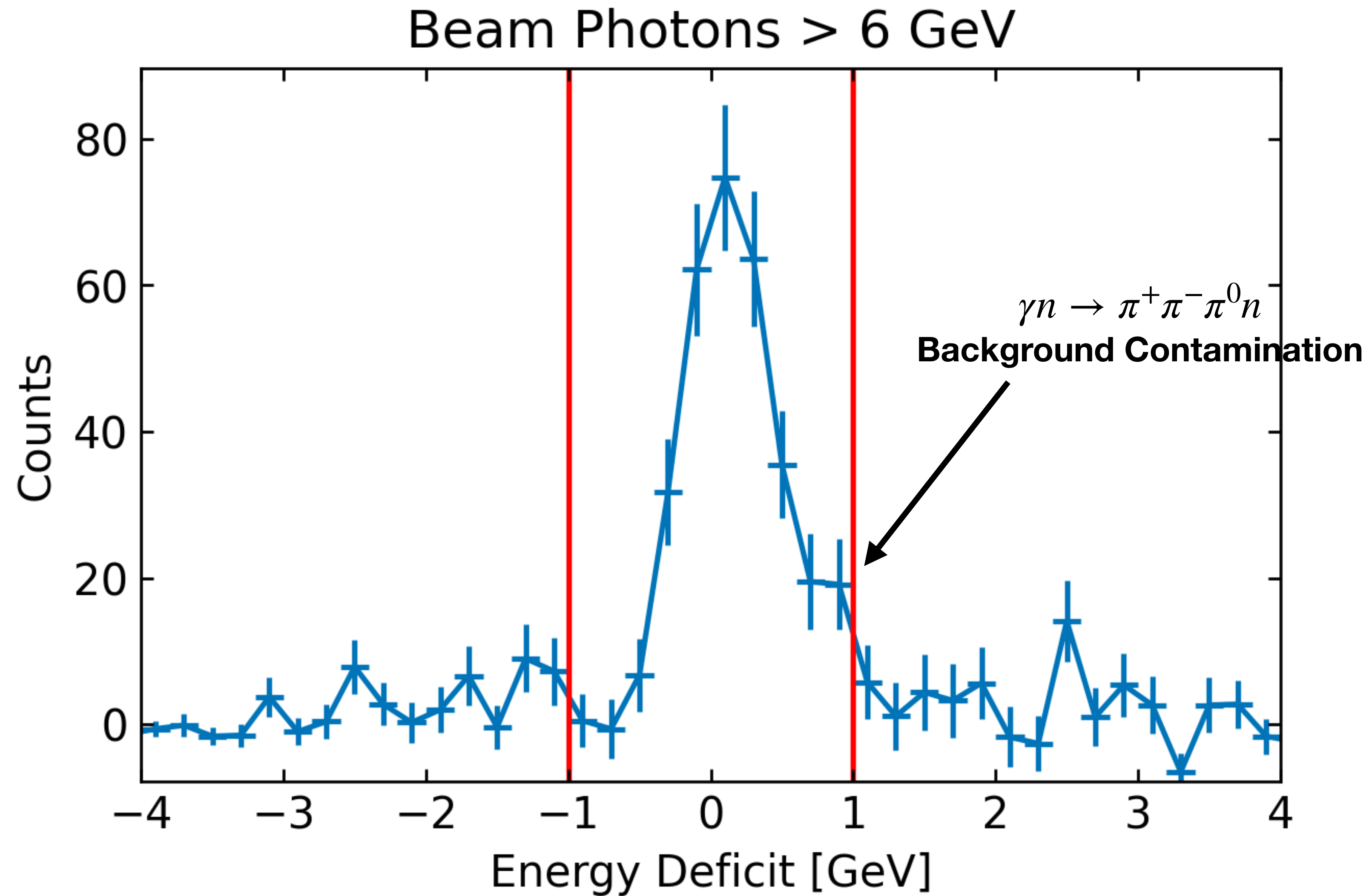
# Background fairly well-separated, but still needs further study



# Mass Spectrum After $3\pi$ Background Cuts

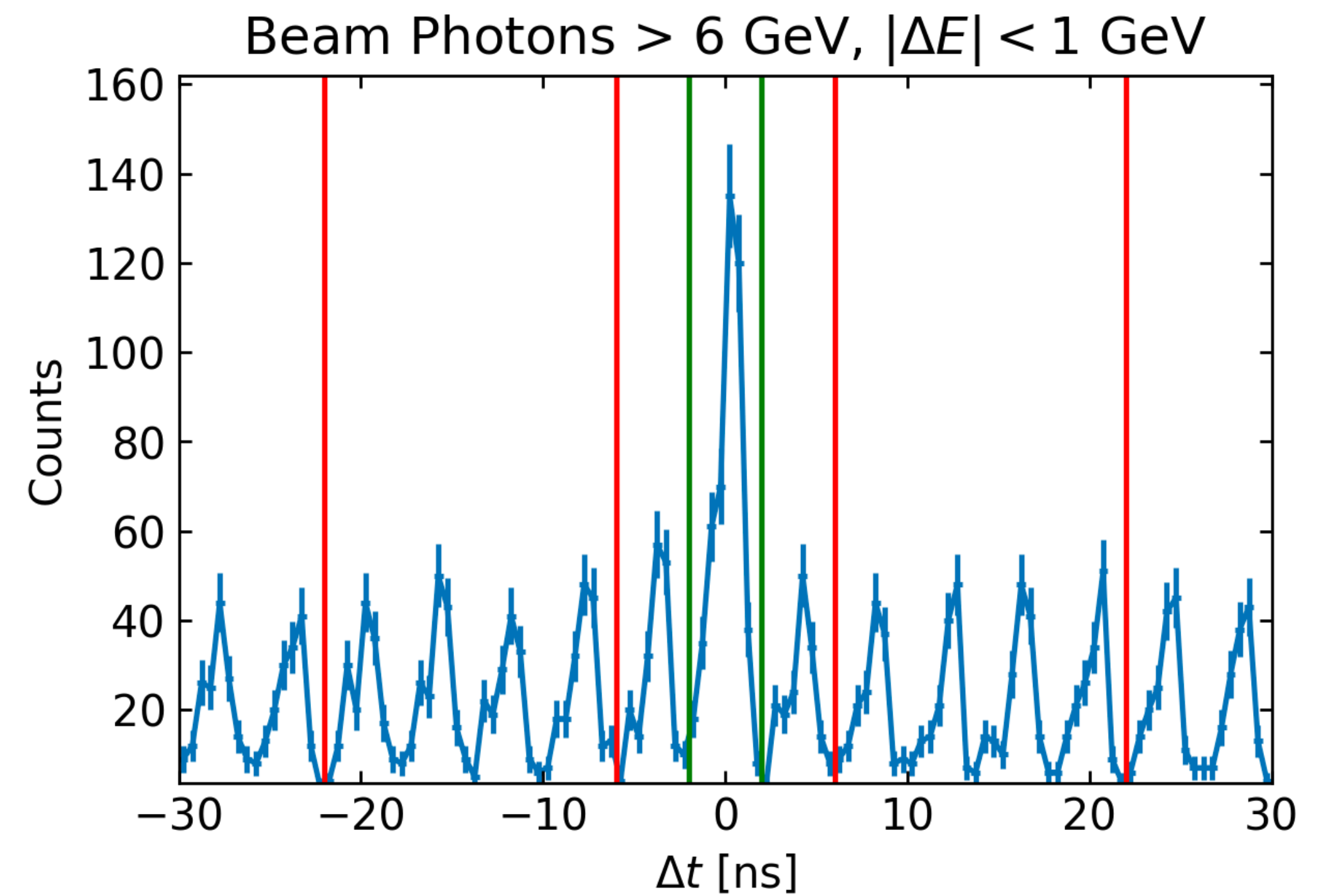
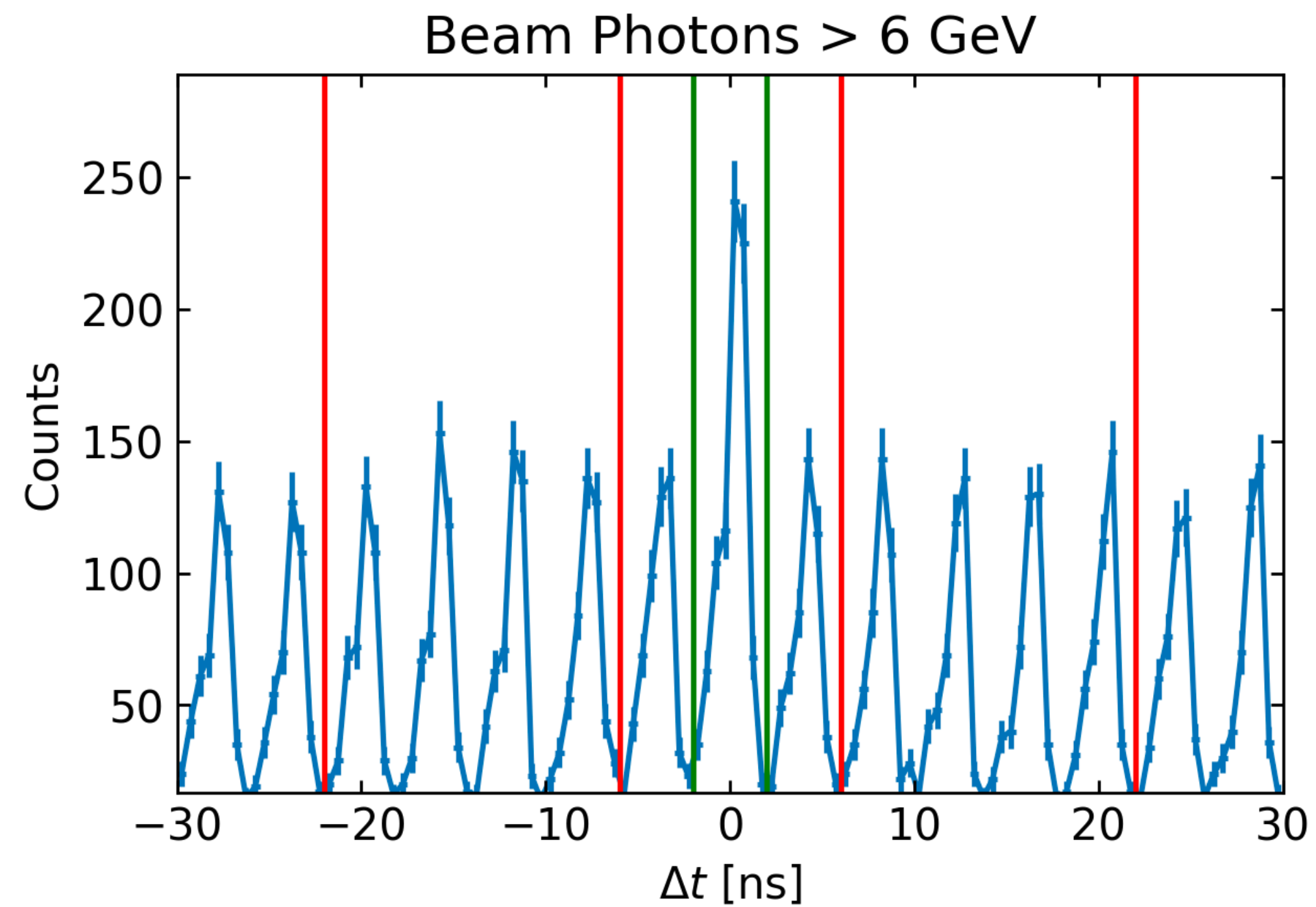


# Energy Deficit (assuming standing neutron)

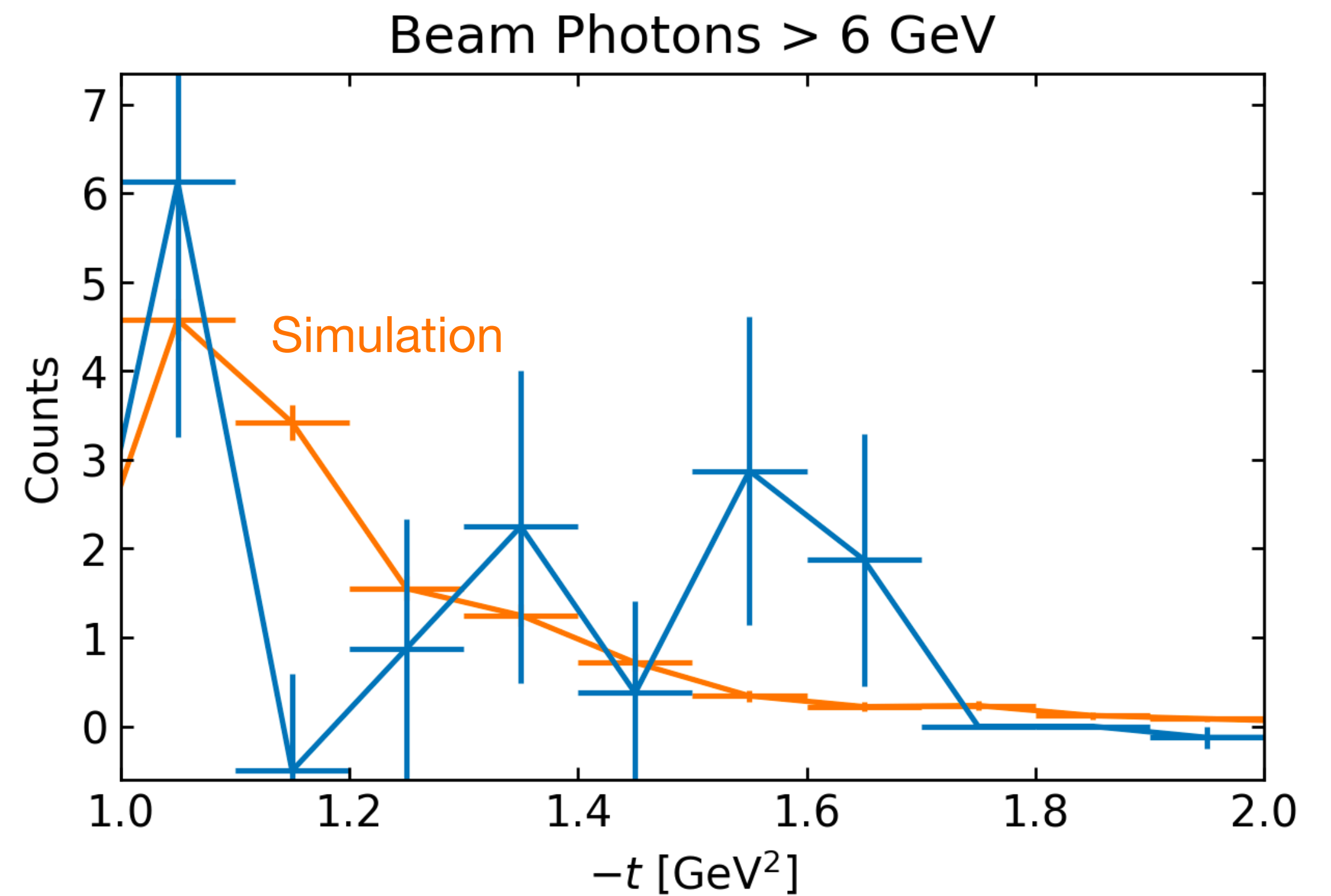
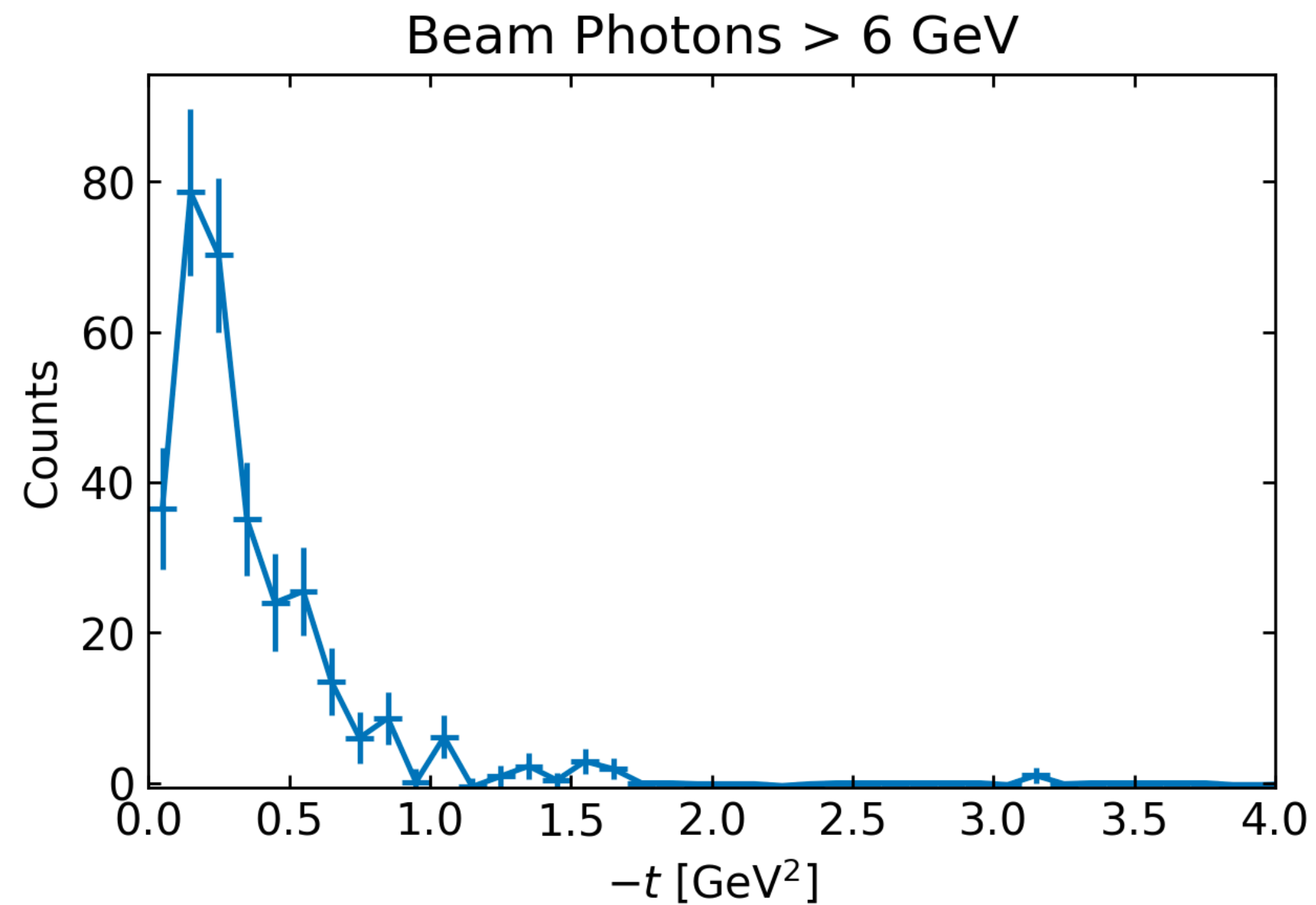




# Beam Photon Timing



# Events fall rapidly with $|t|$



# $k_{miss}$ Spectrum

$t > 1 \text{ GeV}^2$

