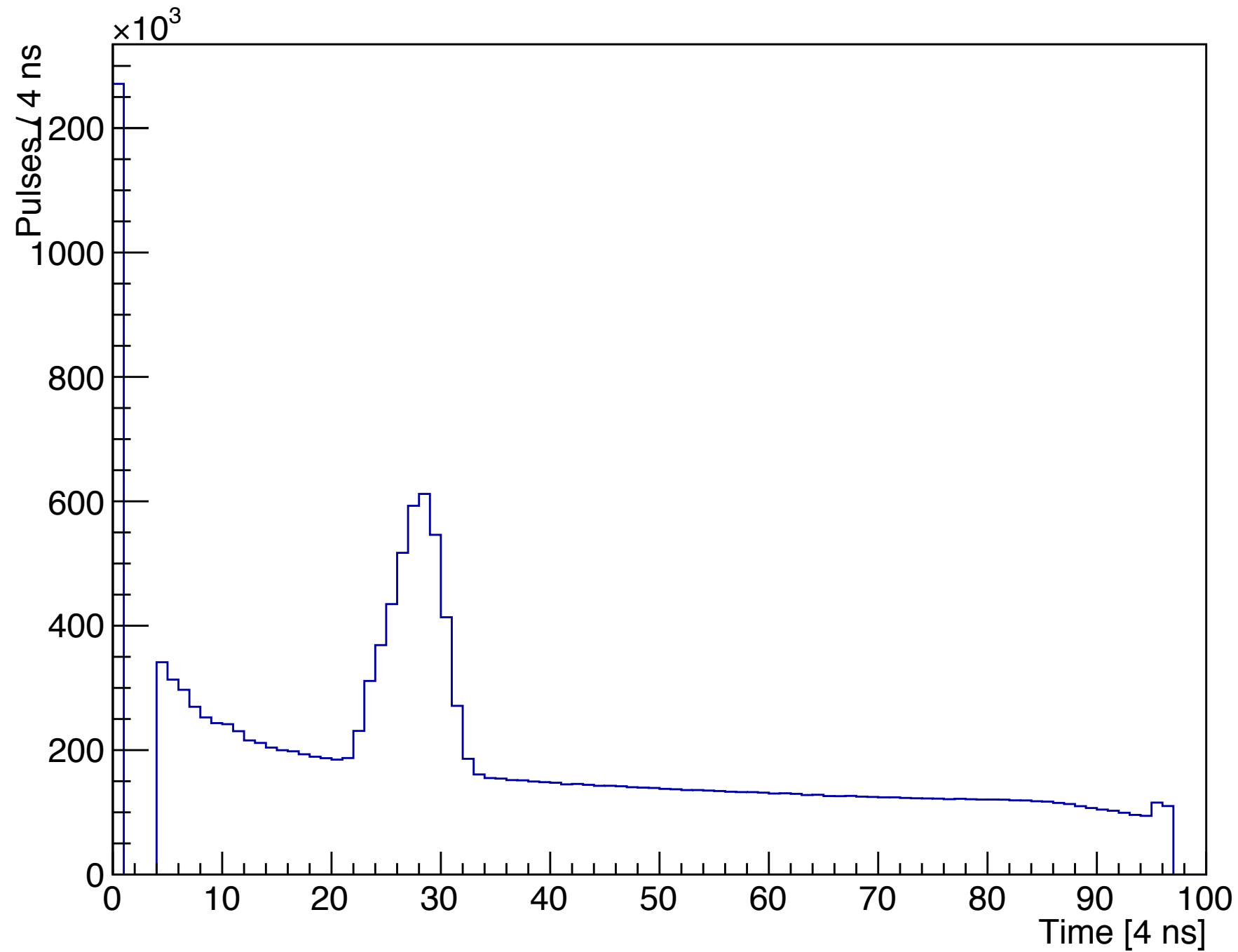


Data Information

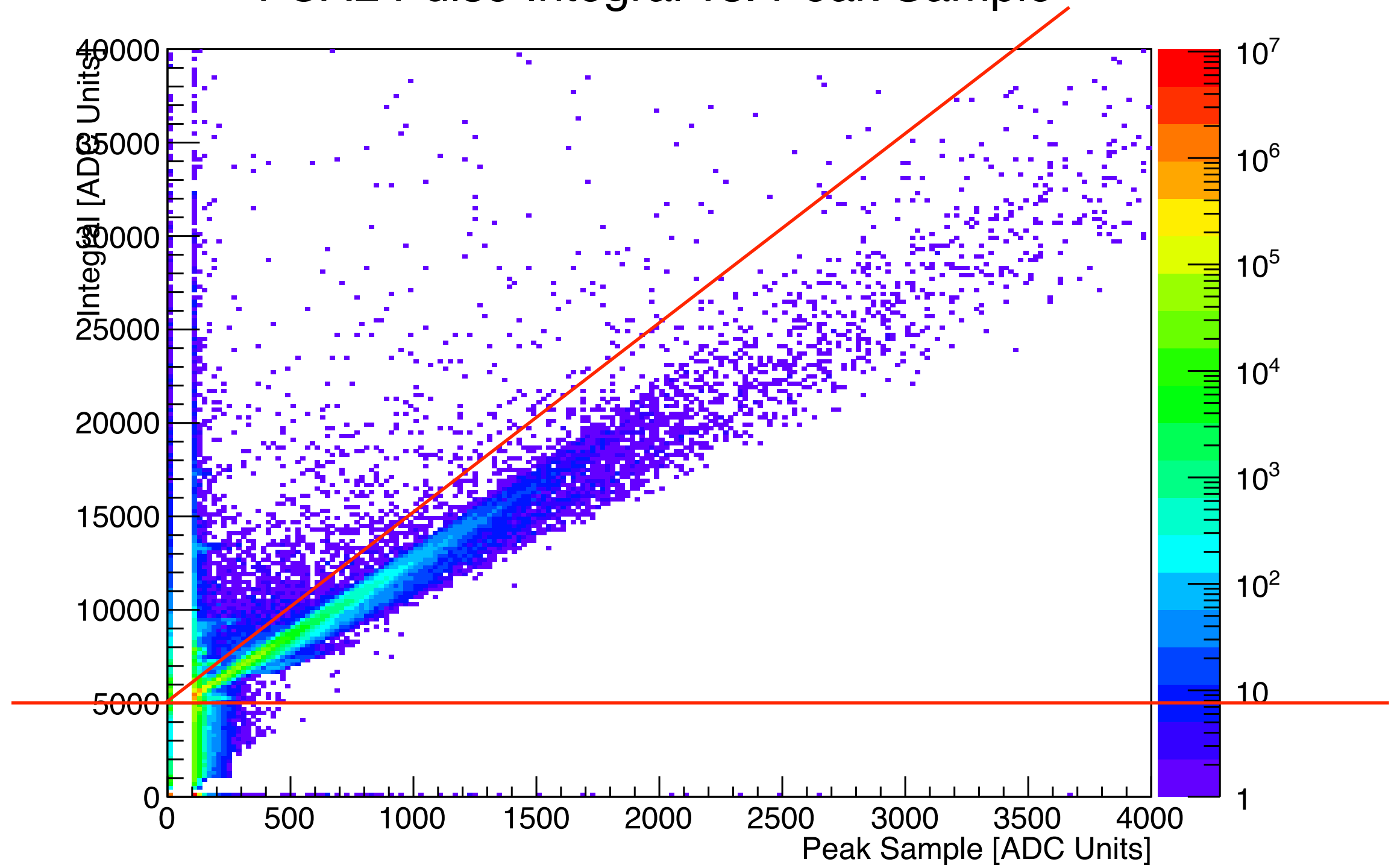
- Runs 1280, 1282, 1286
- Trigger threshold varies
- FCAL HV setting: 300 mV
 - FCAL ADC scale: $2.7\text{E-}4$ GeV/ADC count (2x DB value)
- FCAL FADC Mode: 8
- Inner rows masked in trigger to enhance hadronic events

FCAL Raw Pulse Coarse Time



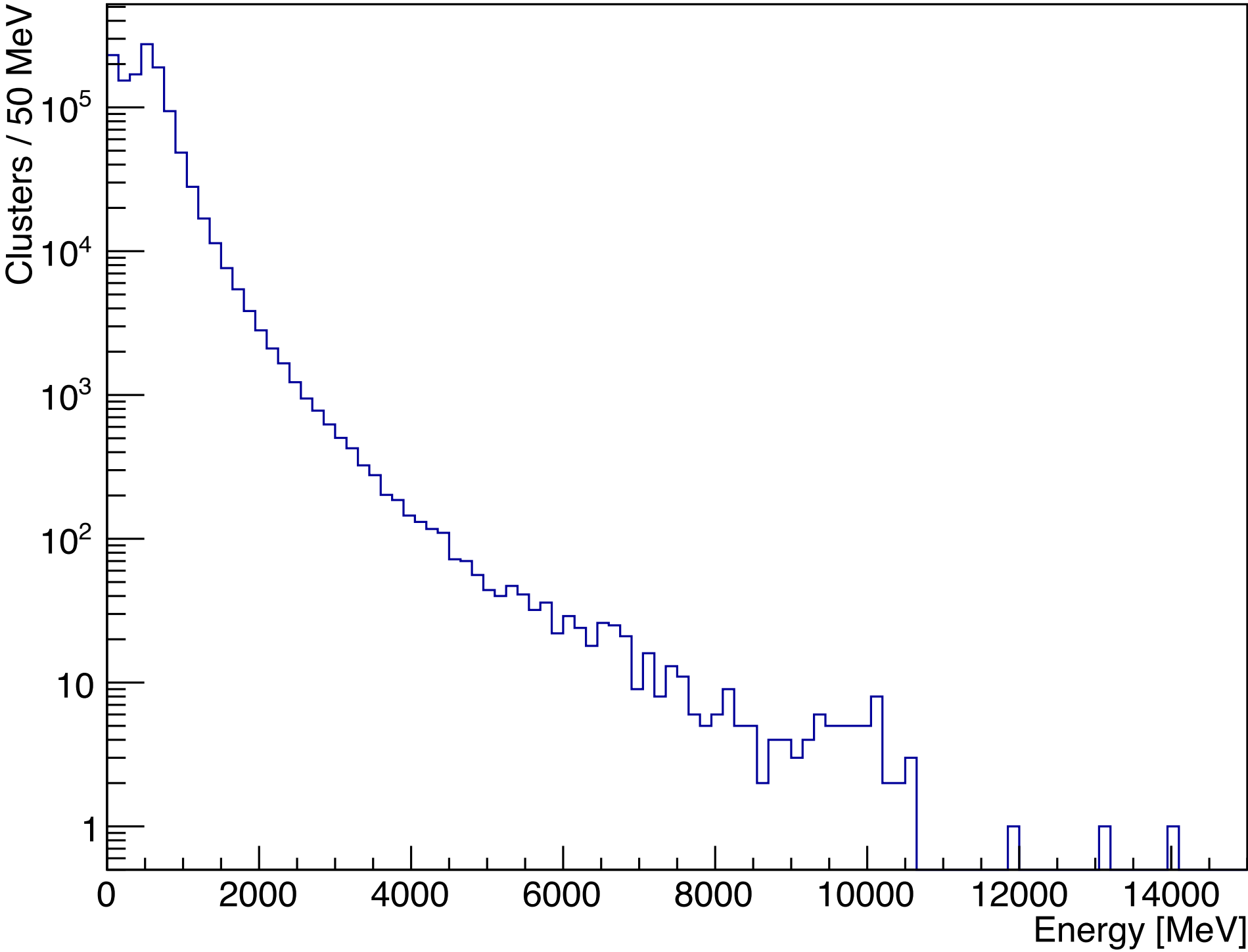
Use fact that trigger is defined by FCAL:
reject hits with time < 20 and > 35

FCAL Pulse Integral vs. Peak Sample

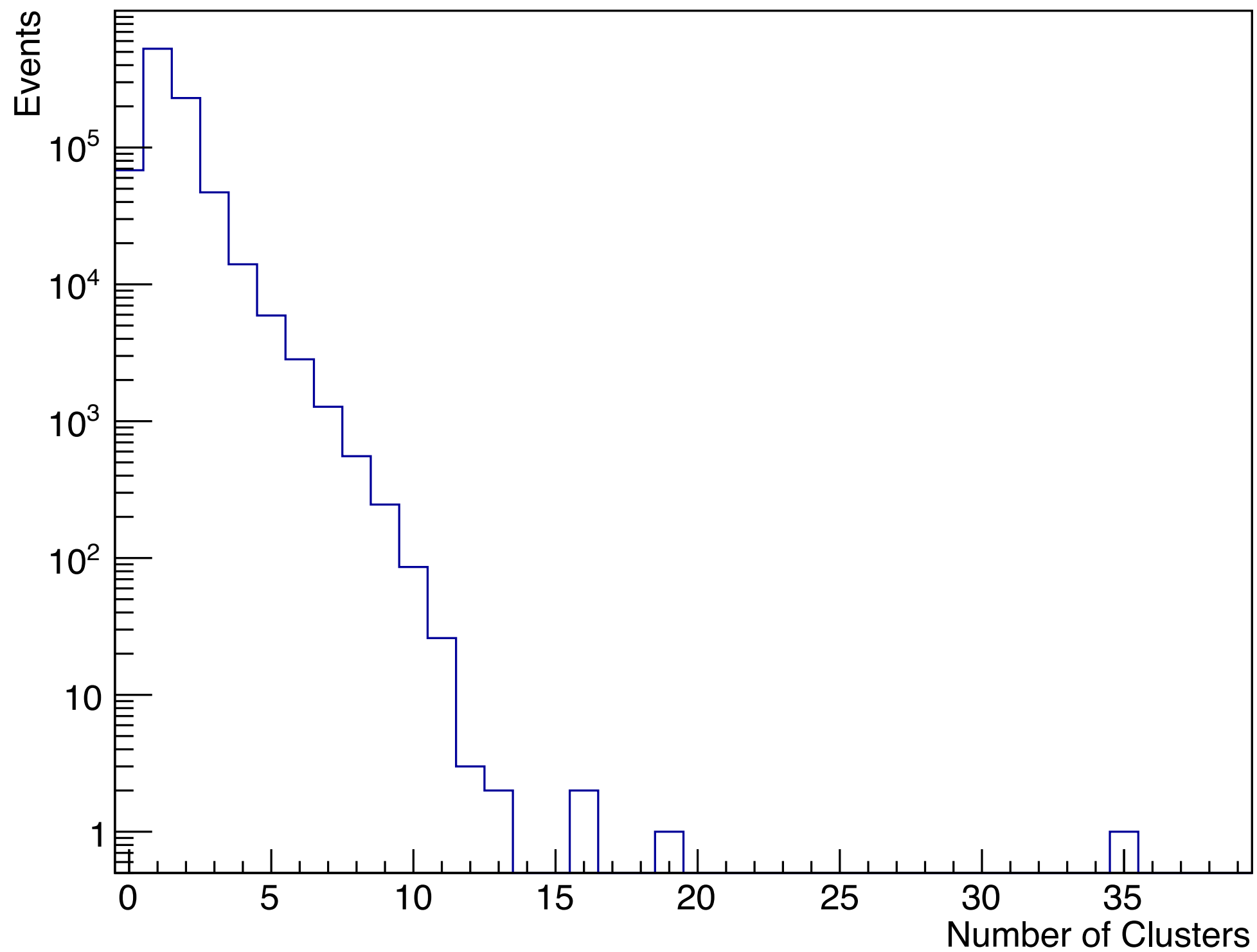


Require pulse integral to peak be in triangle.

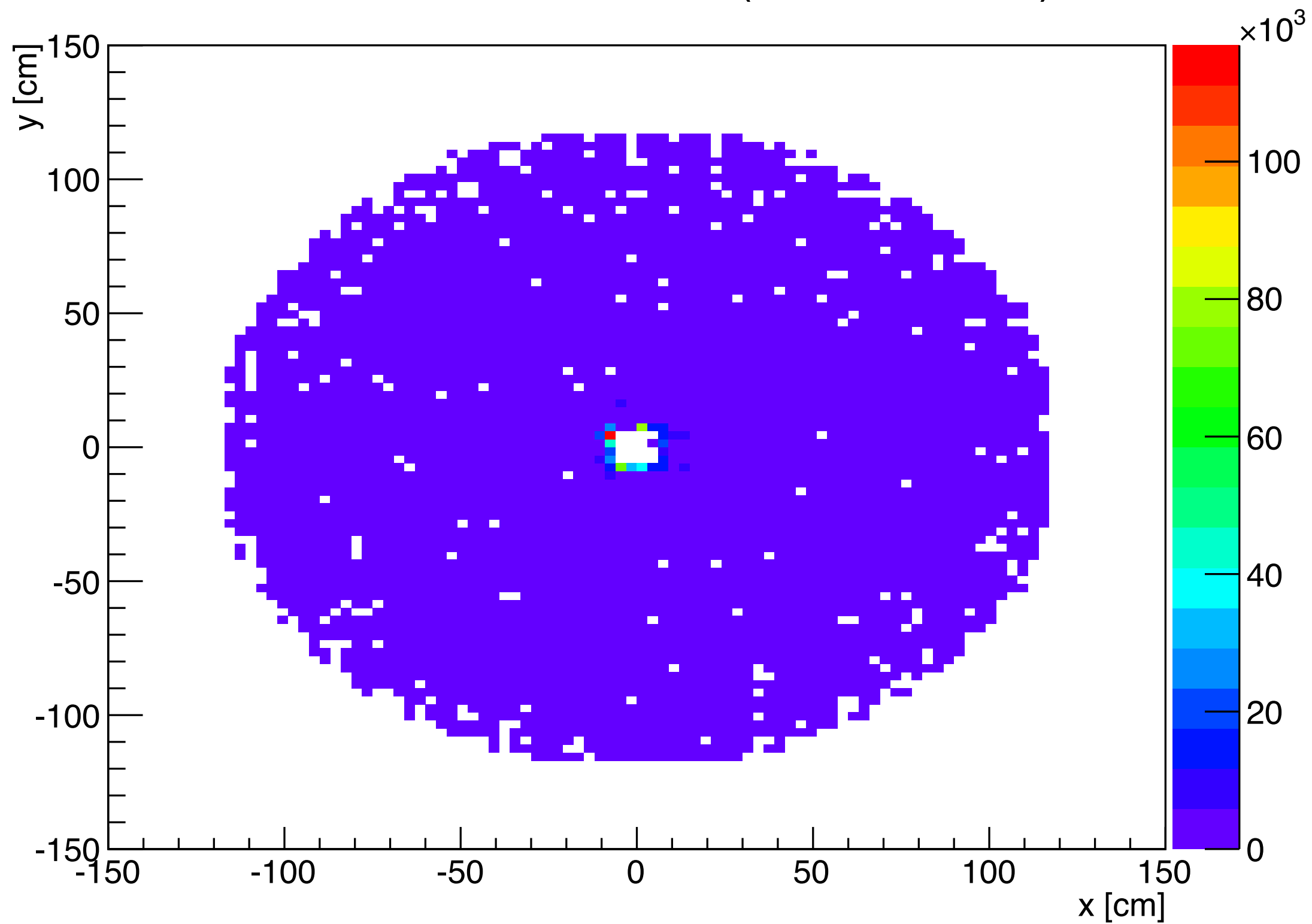
FCAL Cluster Energy



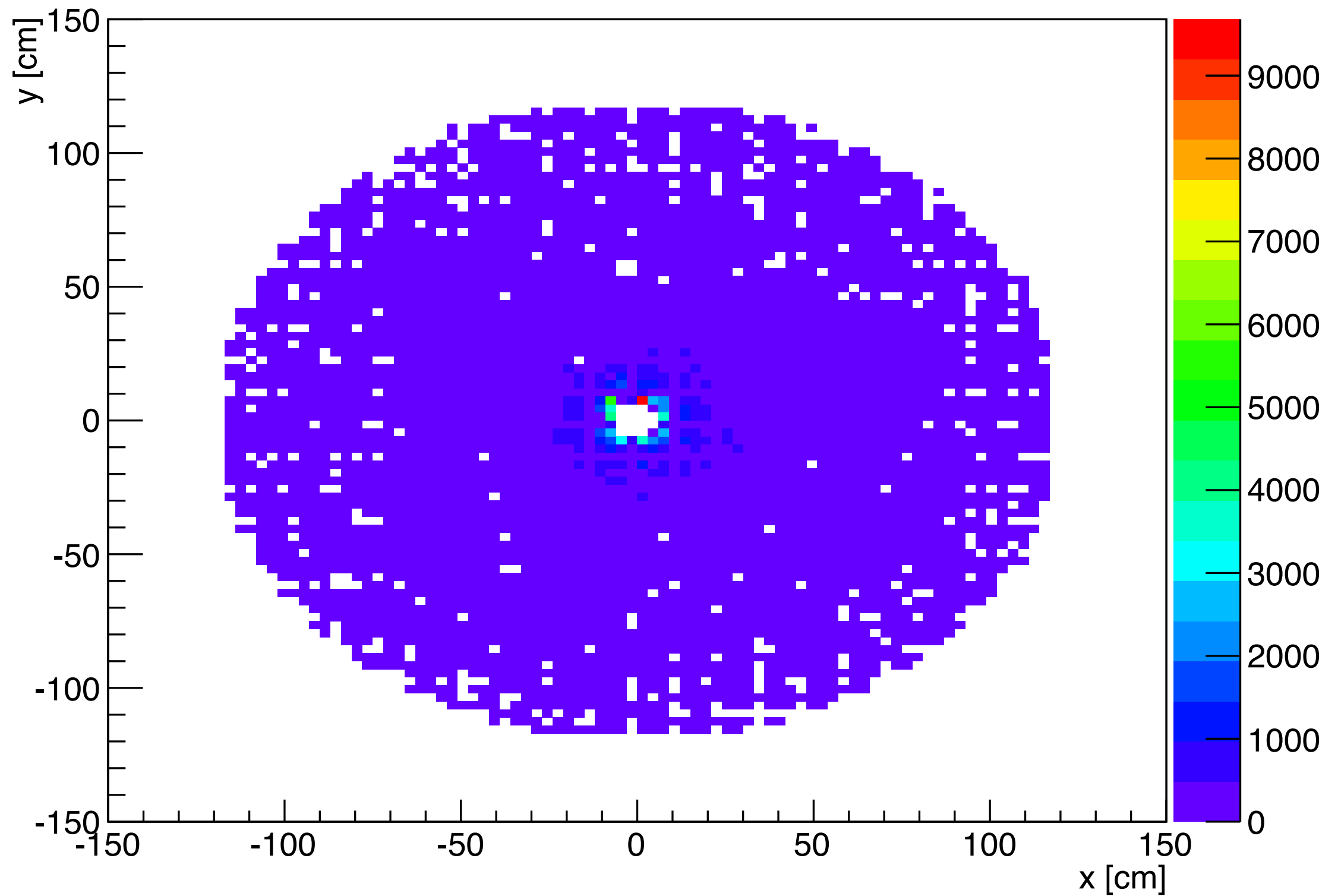
FCAL Number of Clusters



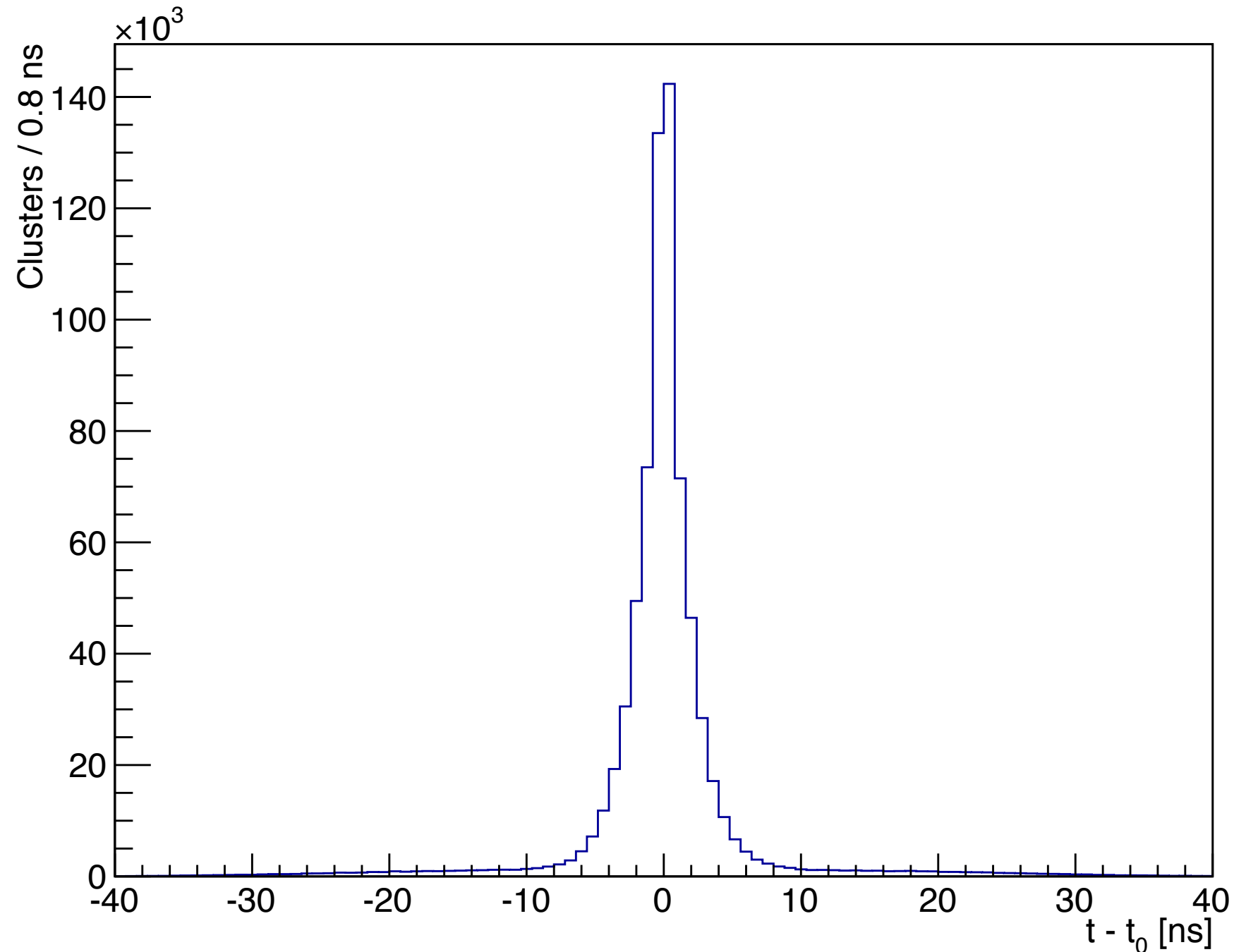
FCAL Cluster Positions ($E > 200$ MeV)



FCAL Cluster Positions ($E < 200$ MeV)



FCAL Cluster Local Time



t_0 : is energy weighted average cluster time for event
plot is filled only when there is more than one cluster
multi-cluster events have multiple “in time” clusters

Looking for π^0

- At least 3 clusters
- Cluster distance to beam line greater than 15 cm
- Both clusters have energy greater than 200 MeV
- Cluster time difference less than 10 ns
- Cluster separation greater than 30 cm
- Assume photons come from z location of target

FCAL 2 Cluster Invariant Mass $E > 200$ MeV

