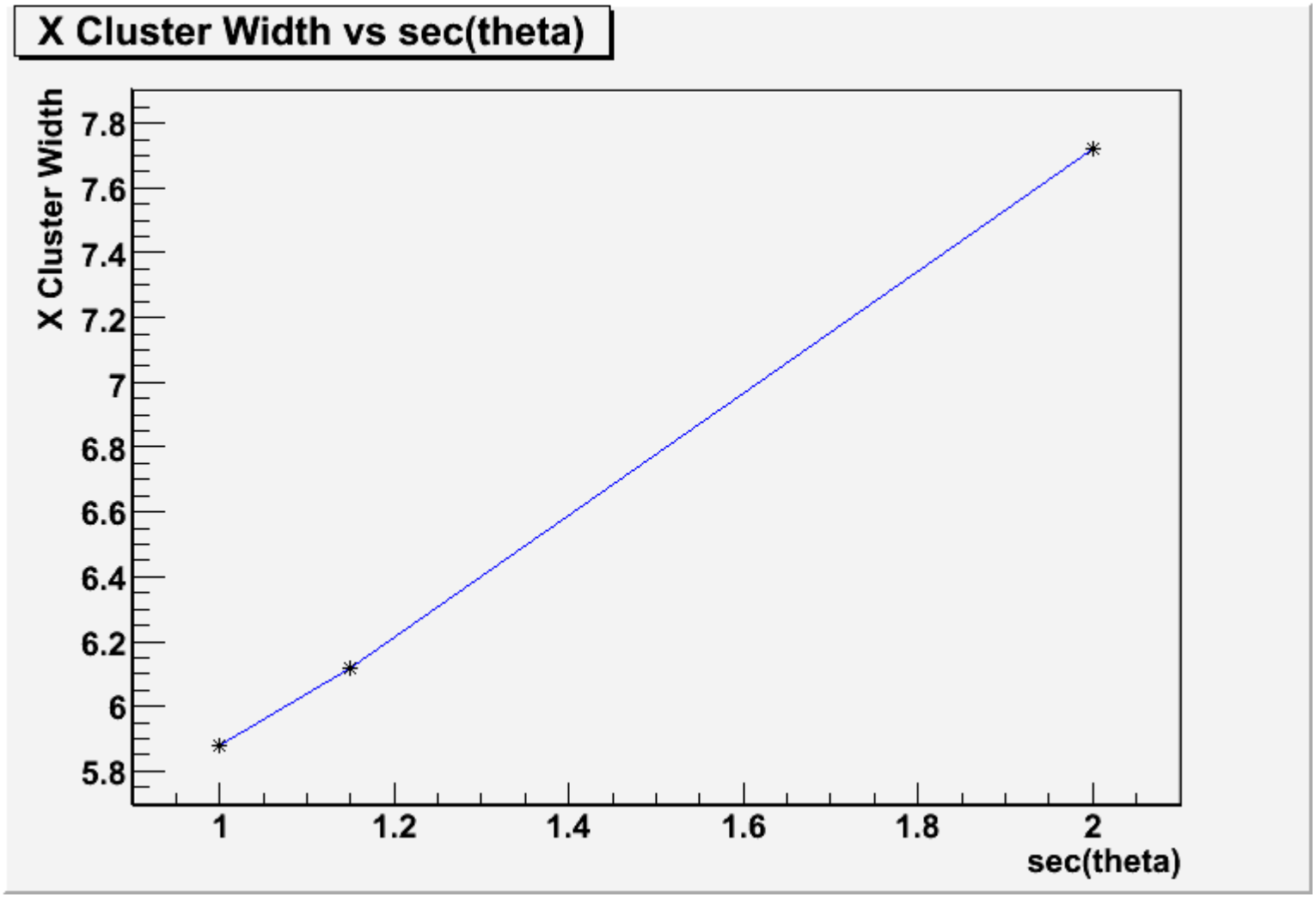
Some progress on Cluster Widths

Leon R.

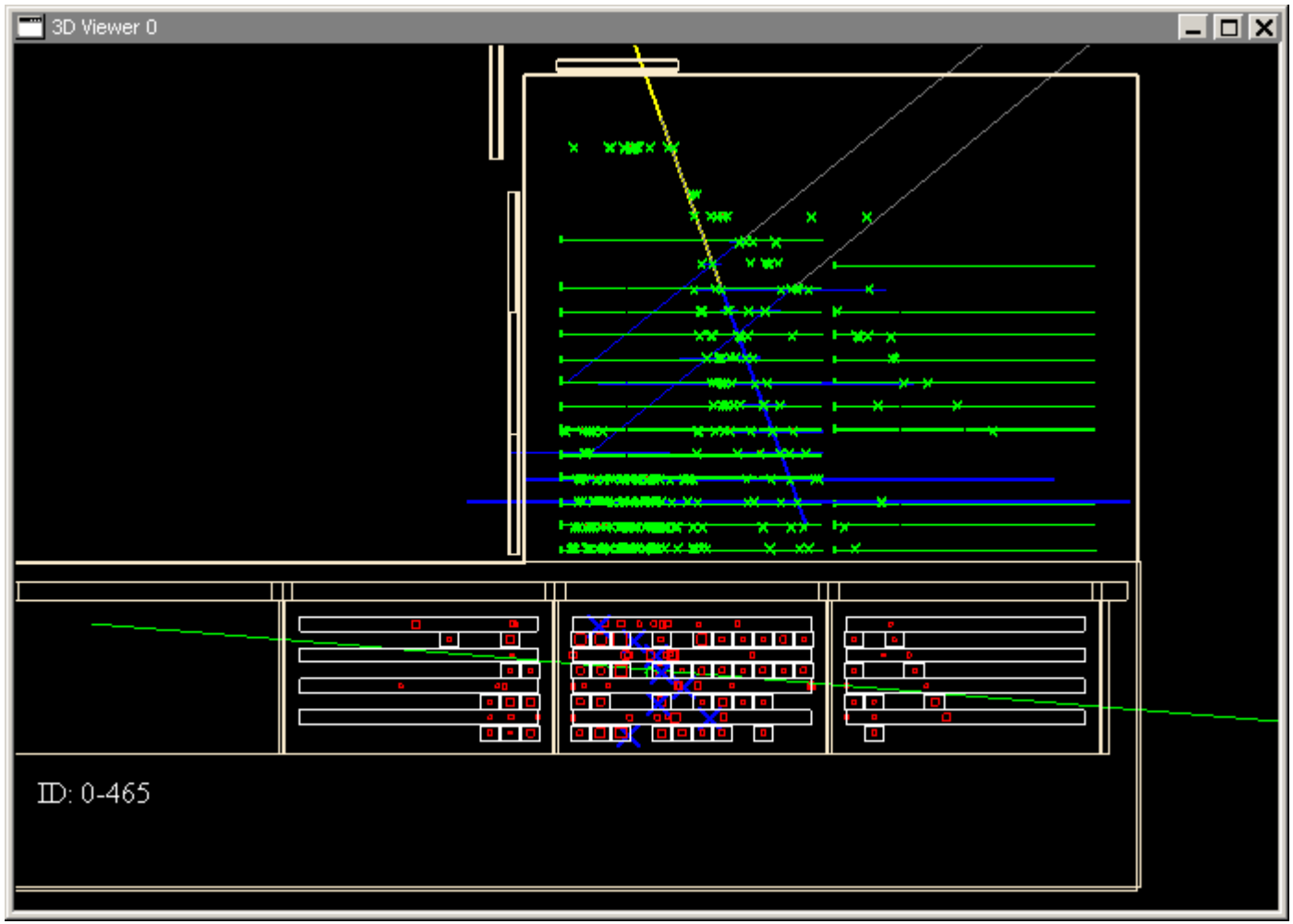
BT Meeting

9 Feb 2007

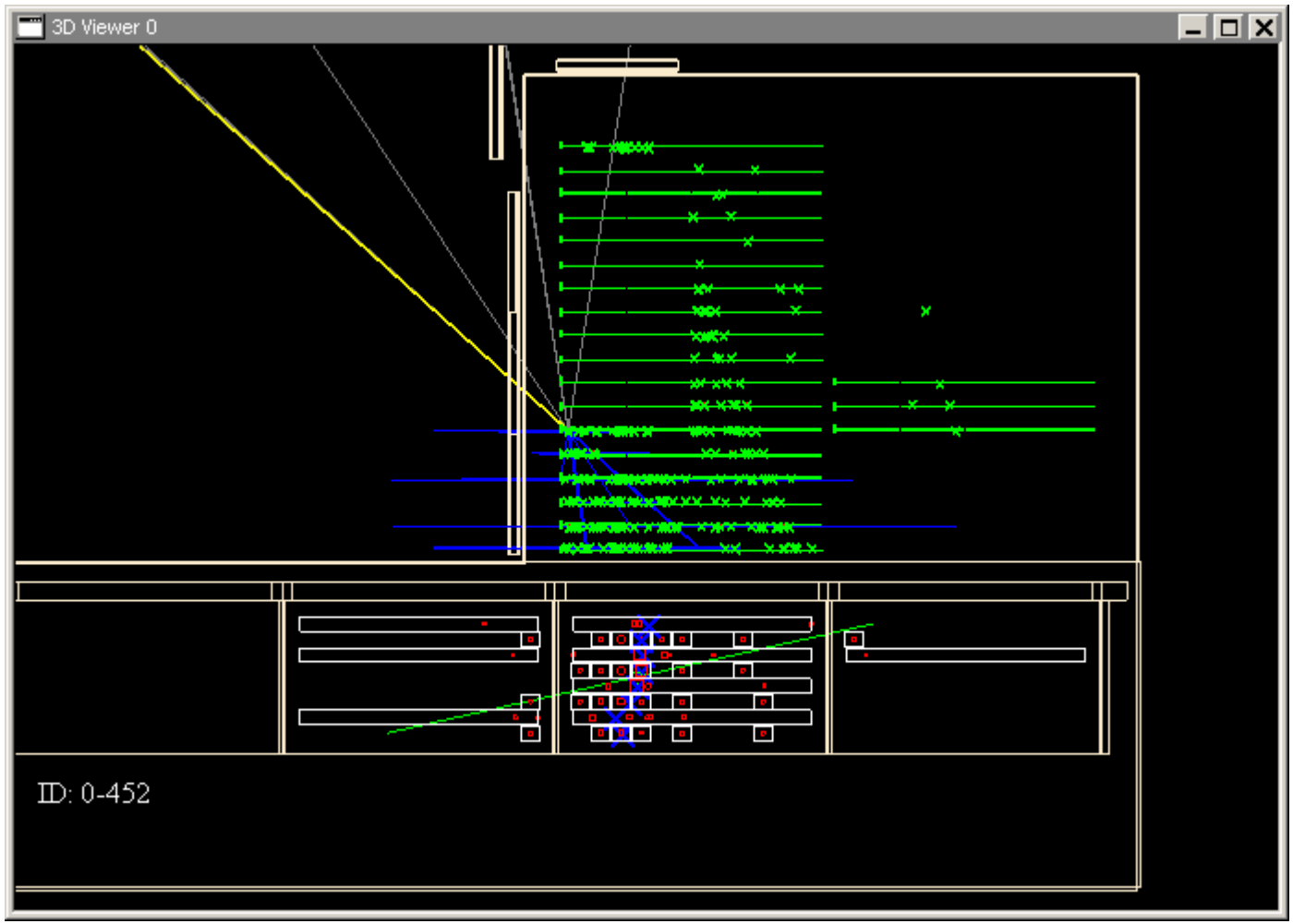
Previous Plot



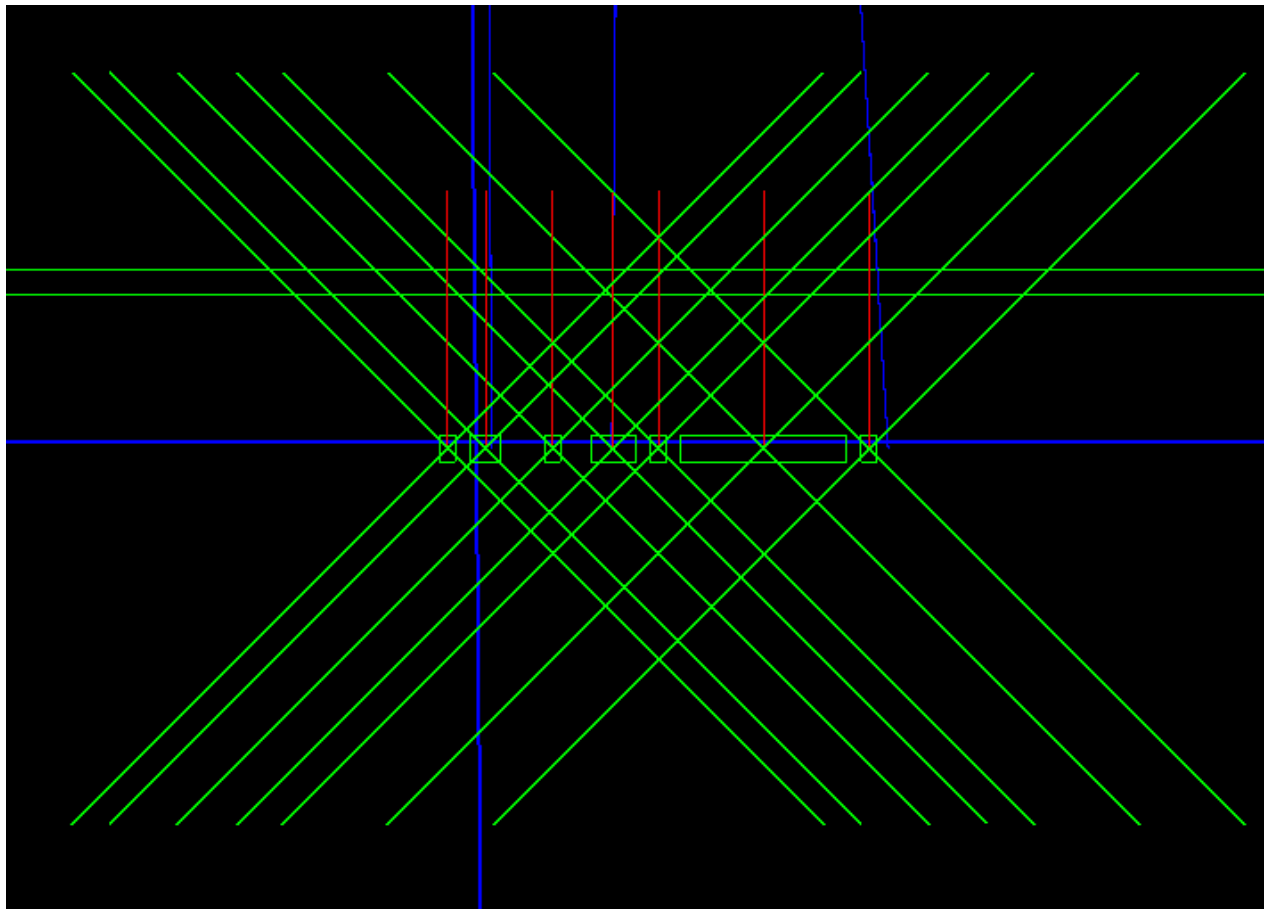
A Xenon Event



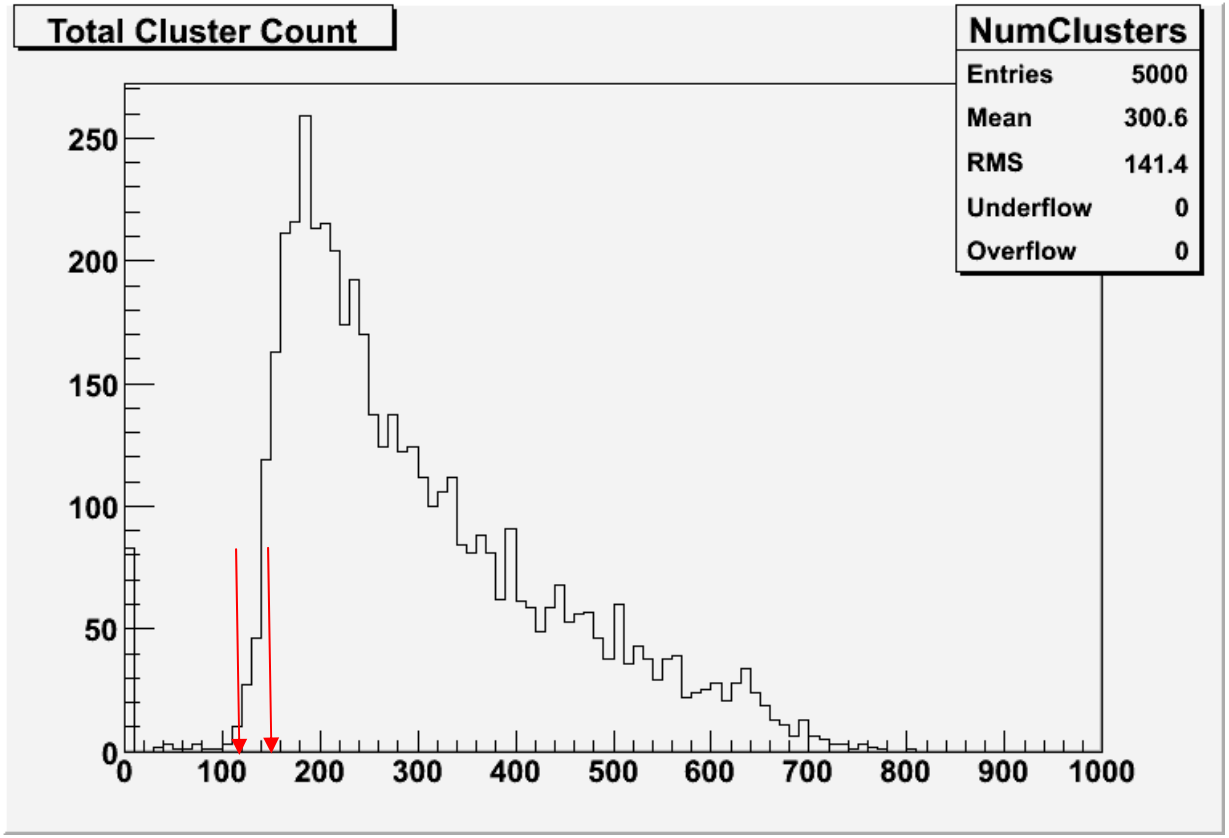
Another Xenon Event



Wide Cluster



First Look at Xenon

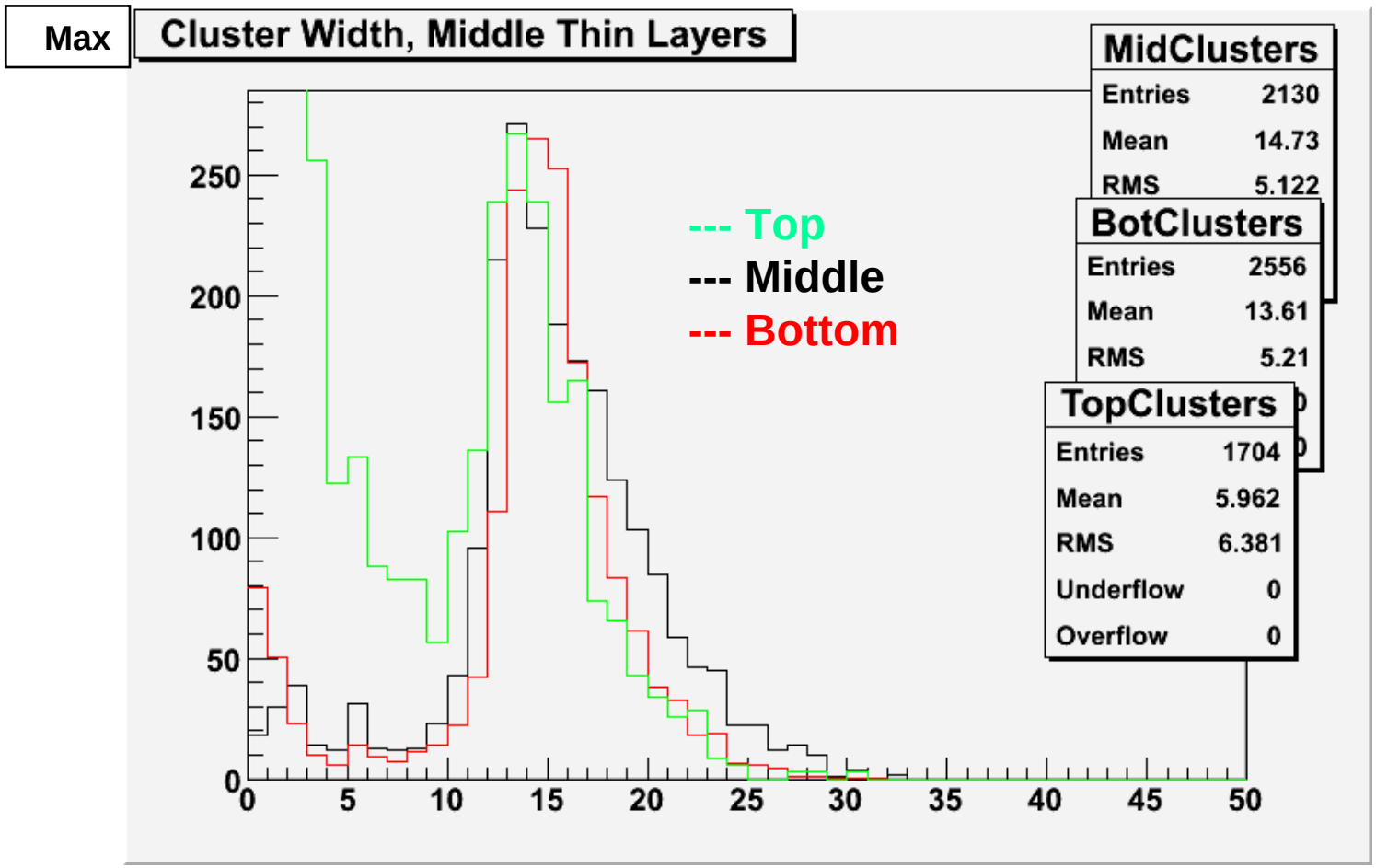


I assume that the “cleanest” events have tracks with the highest charge…

Method

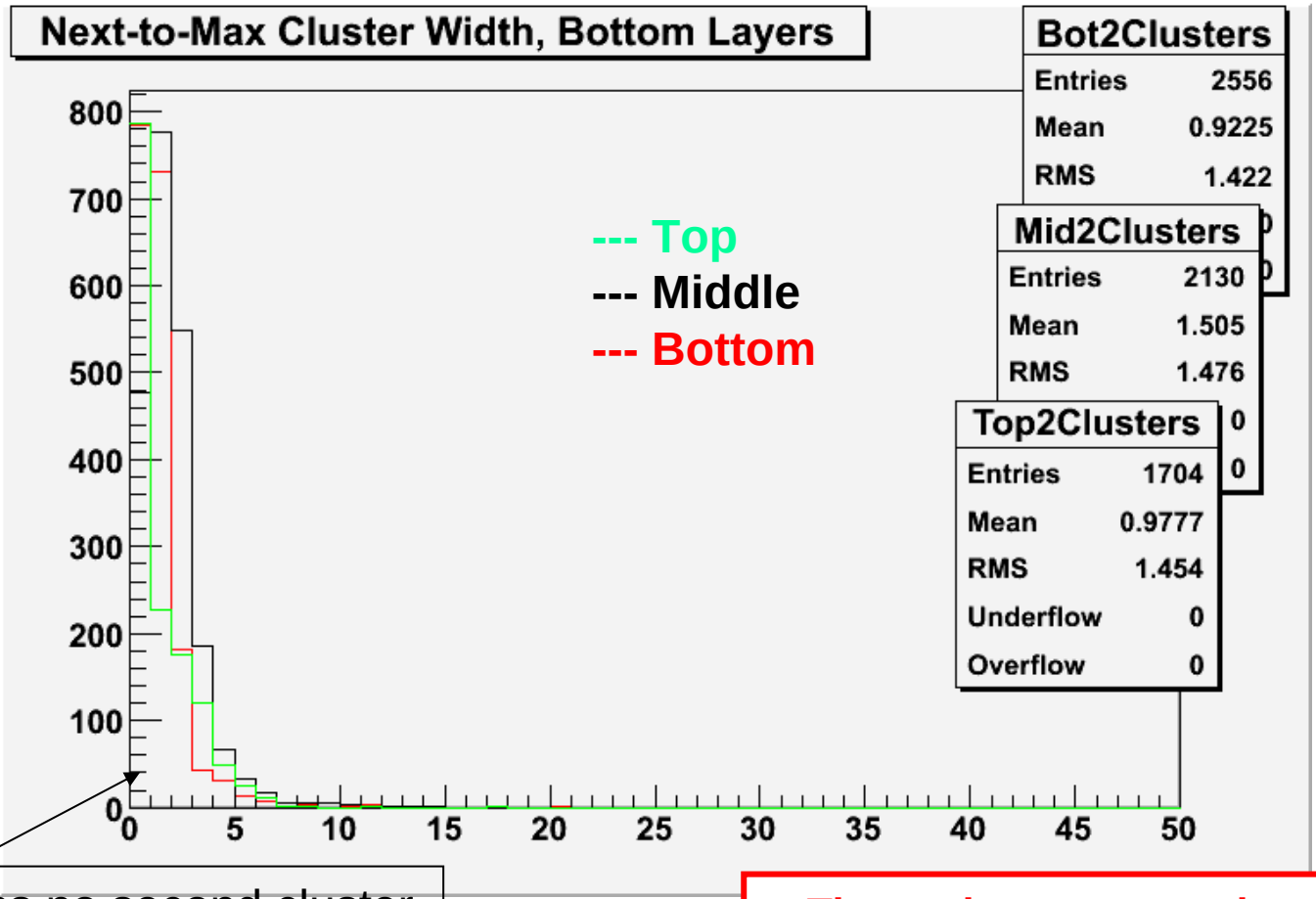
- Look at tower 2 only
- Pick events with between 100 and 150 clusters
- For each layer, record widest cluster
- If the width of the widest cluster in all the layers is three or less, reject event
- Plot maximum cluster widths by layer type:
  - thin top
  - thin middle
  - Bottom
- Do the same for the next-to-widest cluster

Widest Clusters



So let's call it 15…

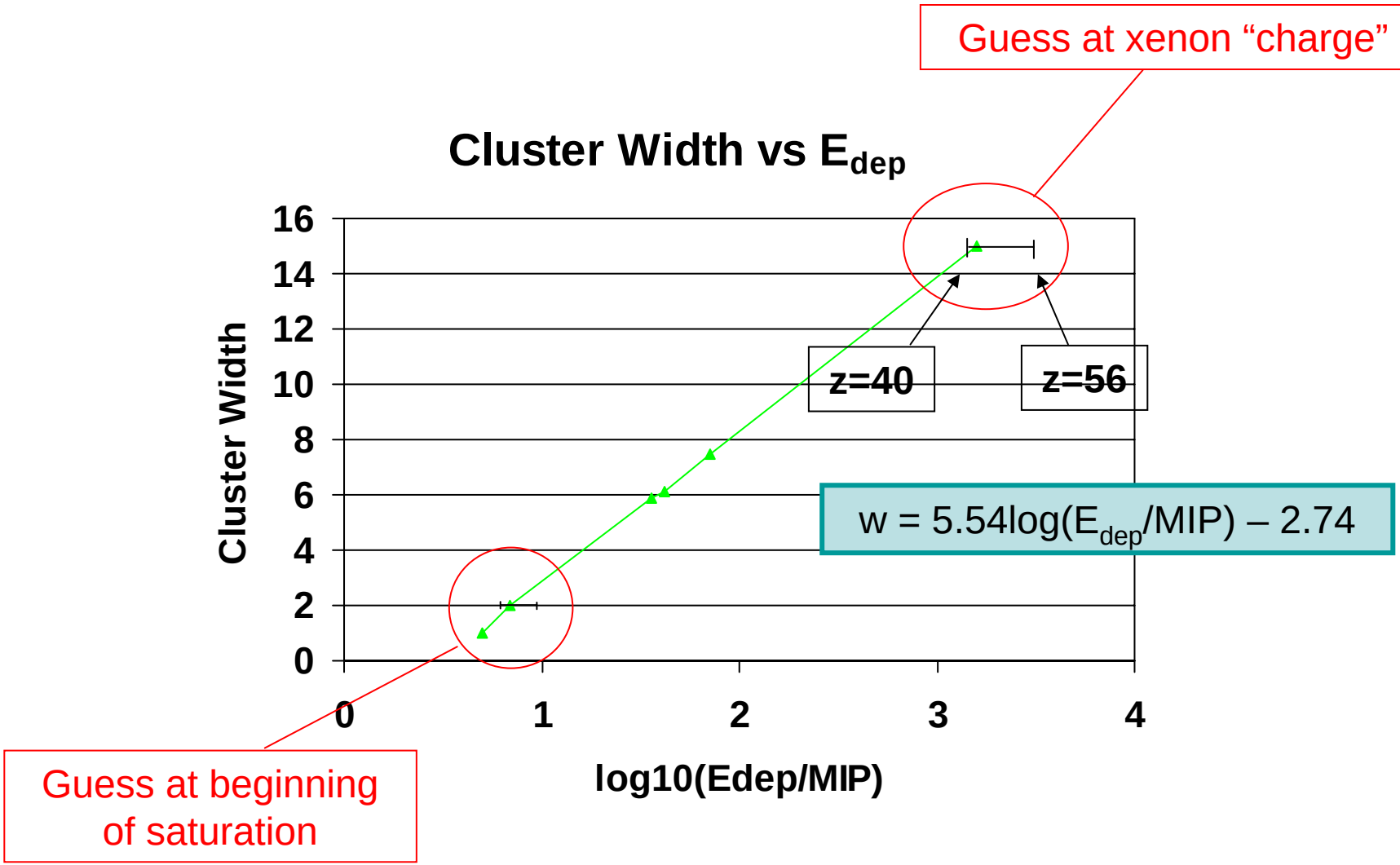
Next-to-widest Clusters



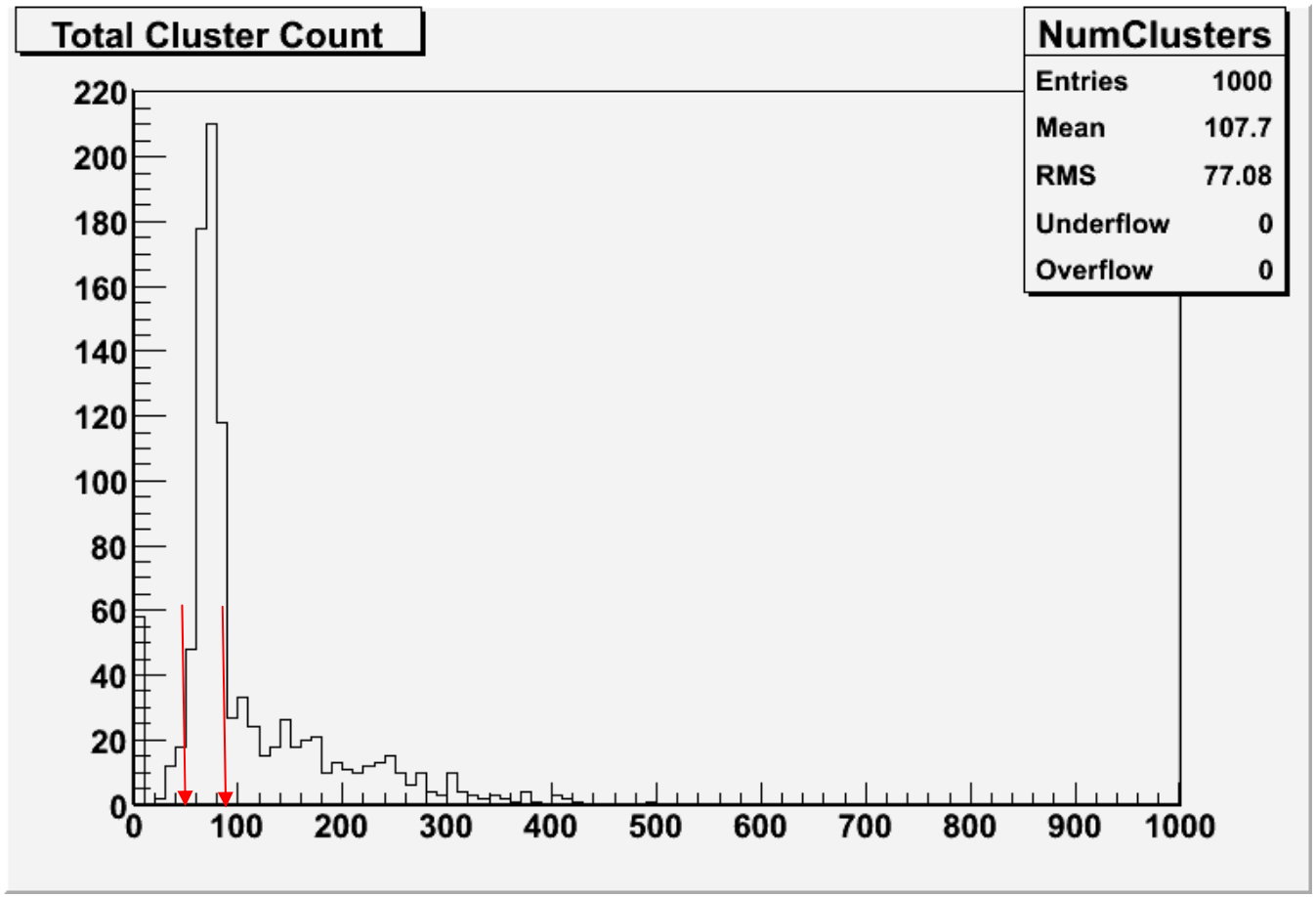
zero means no second cluster

These clusters are only a little wider than normal ones

First Stab at a Parameterization



Same For Carbon (as Check)



Widest Clusters