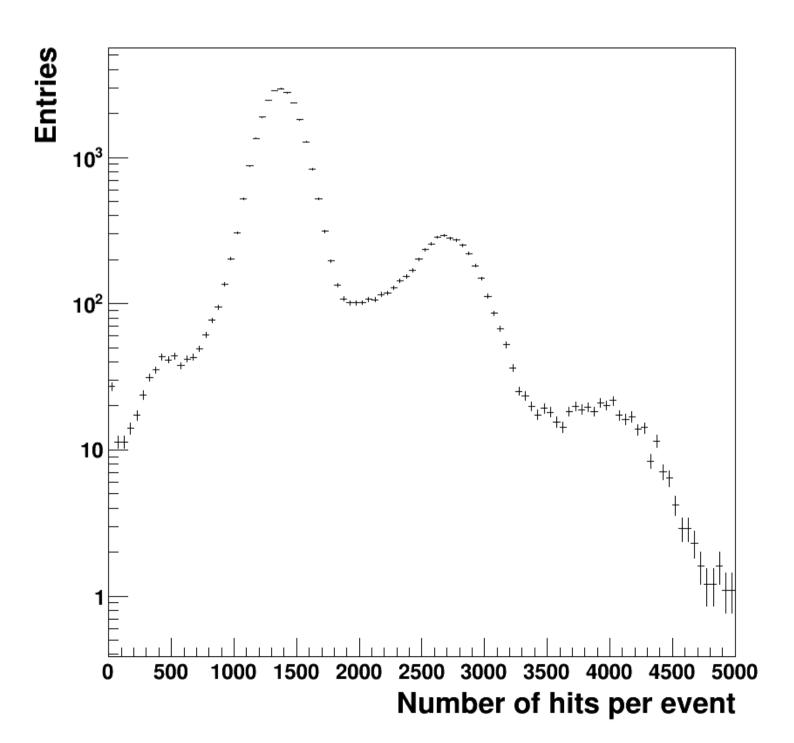
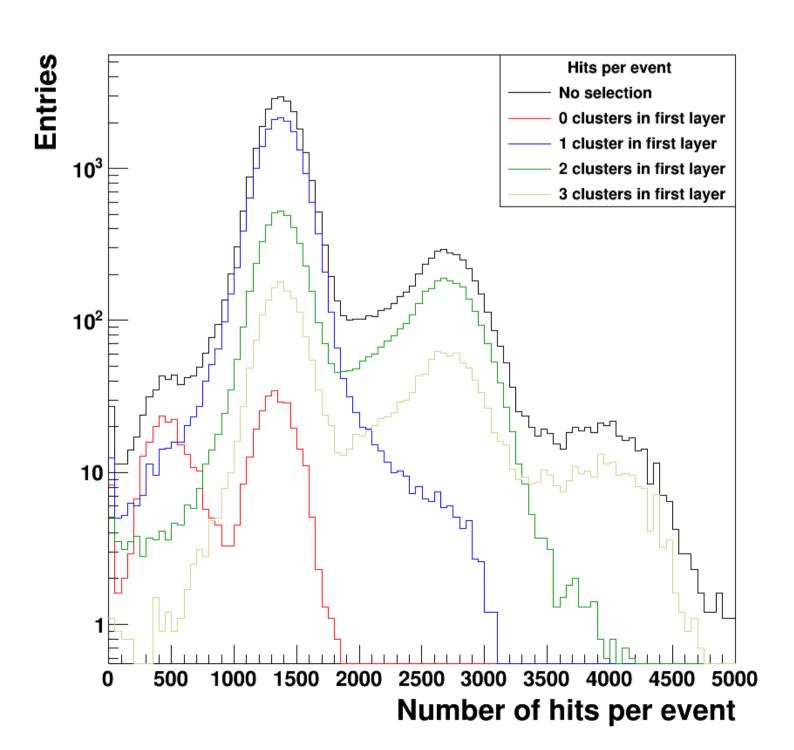
### Run 1308 - 5 GeV

- Different peaks due to different number of electrons producing a shower.
- Goal: Make selection criteria to select events with only 1 electron or only 2 electrons etc.



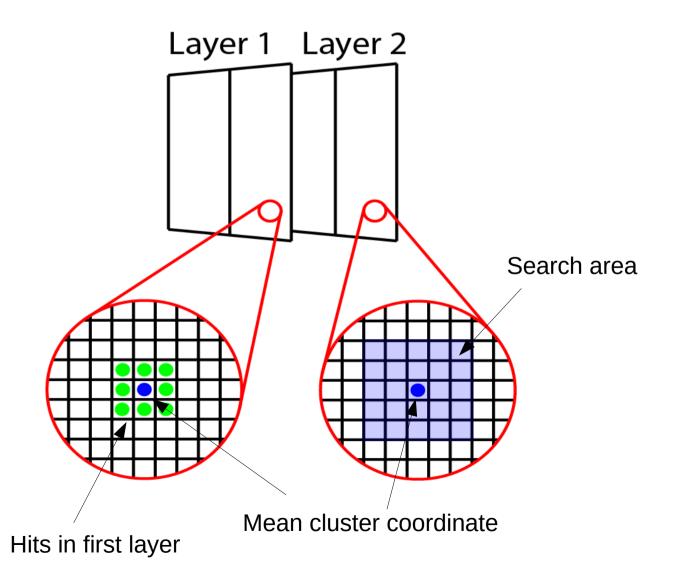
### Run 1308 - 5 GeV

- Goal: Make selection criteria to select events with only 1 electron or only 2 electrons etc.
- First criterion: Selection based on number of clusters in first layer



### Run 1308 - 5 GeV

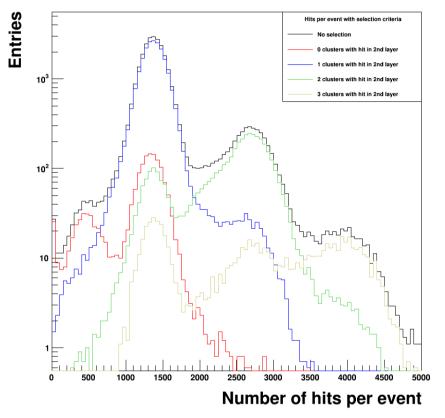
- First criterion: Selection based on number of clusters in first layer
- Second criterion: Look in second layer behind the clusters.
  - Hit found? Cluster is accepted
  - No hit found? Cluster is ignored



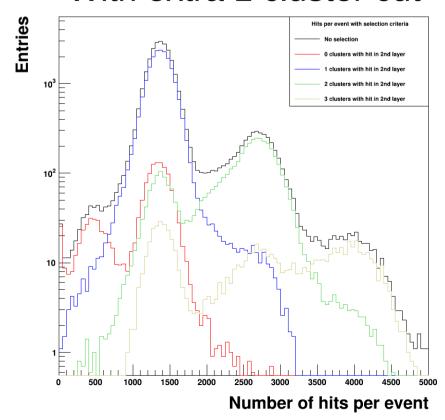
#### Run 1308 – 5 GeV

- First criterion: Selection based on number of clusters in first layer
- Second criterion: Look in second layer behind the clusters.
  - Hit found? Cluster is accepted
  - No hit found? Cluster is ignored
- Extra cut for 1 electron events: If there are ignored clusters with clustersize > 1, reject event.
- The next 3 slides show results with both the first and second criterion applied. These plots are shown with and without the extra cut.

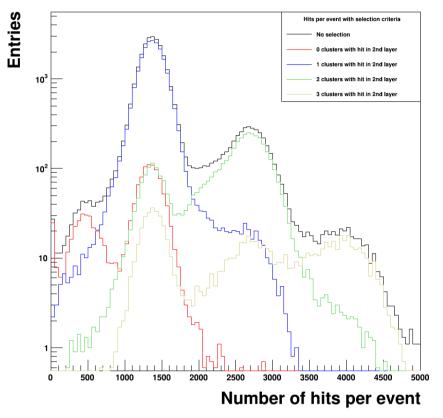
# Run 1308 – 5 GeV Search area in 2<sup>nd</sup> layer= 11X11 Without extra 1 cluster cut



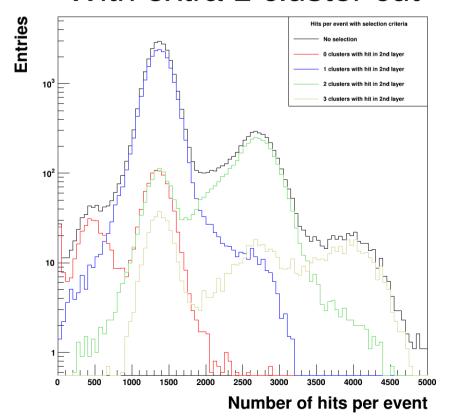
# With extra 1 cluster cut



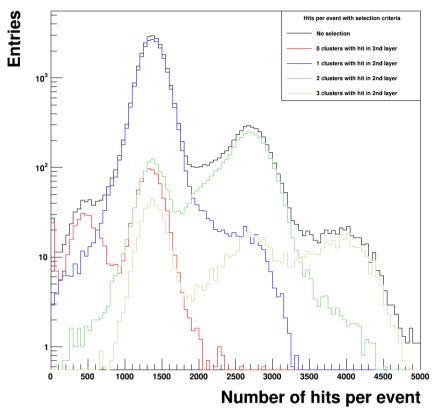
# Run 1308 – 5 GeV Search area in 2<sup>nd</sup> layer= 13X13 Without extra 1 cluster cut



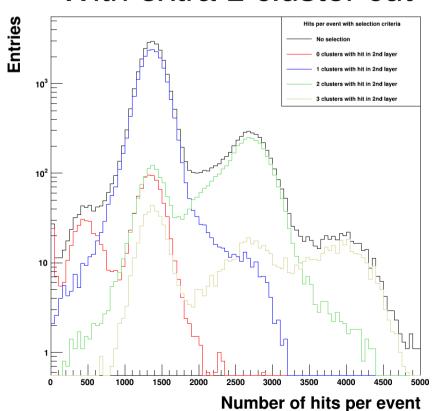
# With extra 1 cluster cut



# Run 1308 - 5 GeV Search area in $2^{nd}$ layer= 15X15Without extra 1 cluster cut



# With extra 1 cluster cut



#### Conclusion

- The extra cut doesn't help much. It lowers the second peak a bit, but also the first one, so this isn't very useful.
- Last week a test was done with a search area in the third layer. This turned out to not be useful as well.