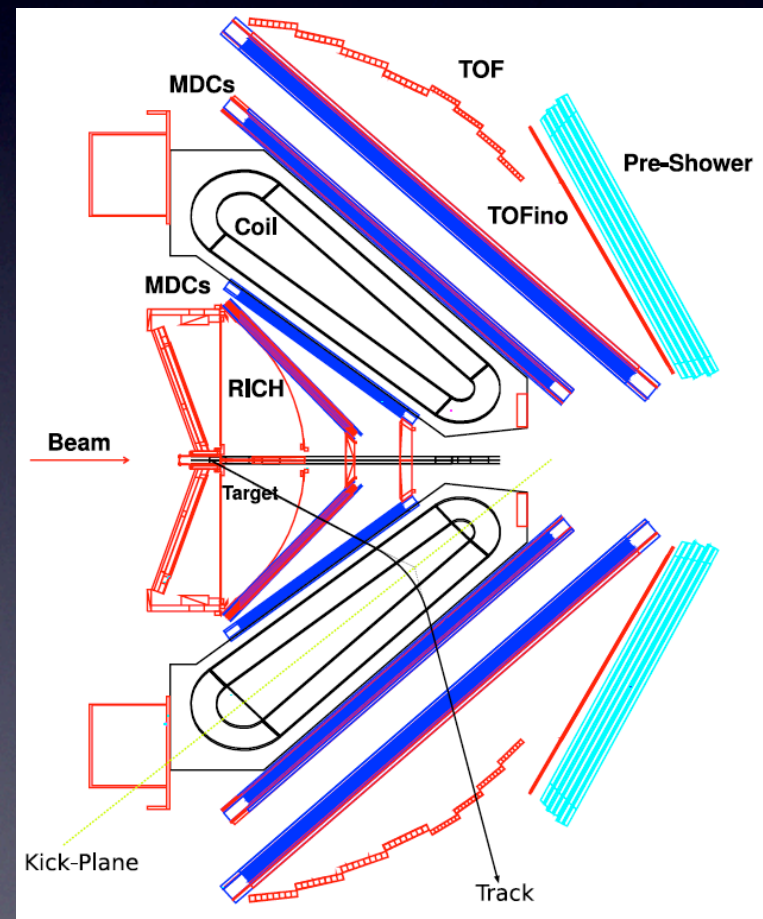


# New RICH Trigger and Online MDC-RICH Correlation

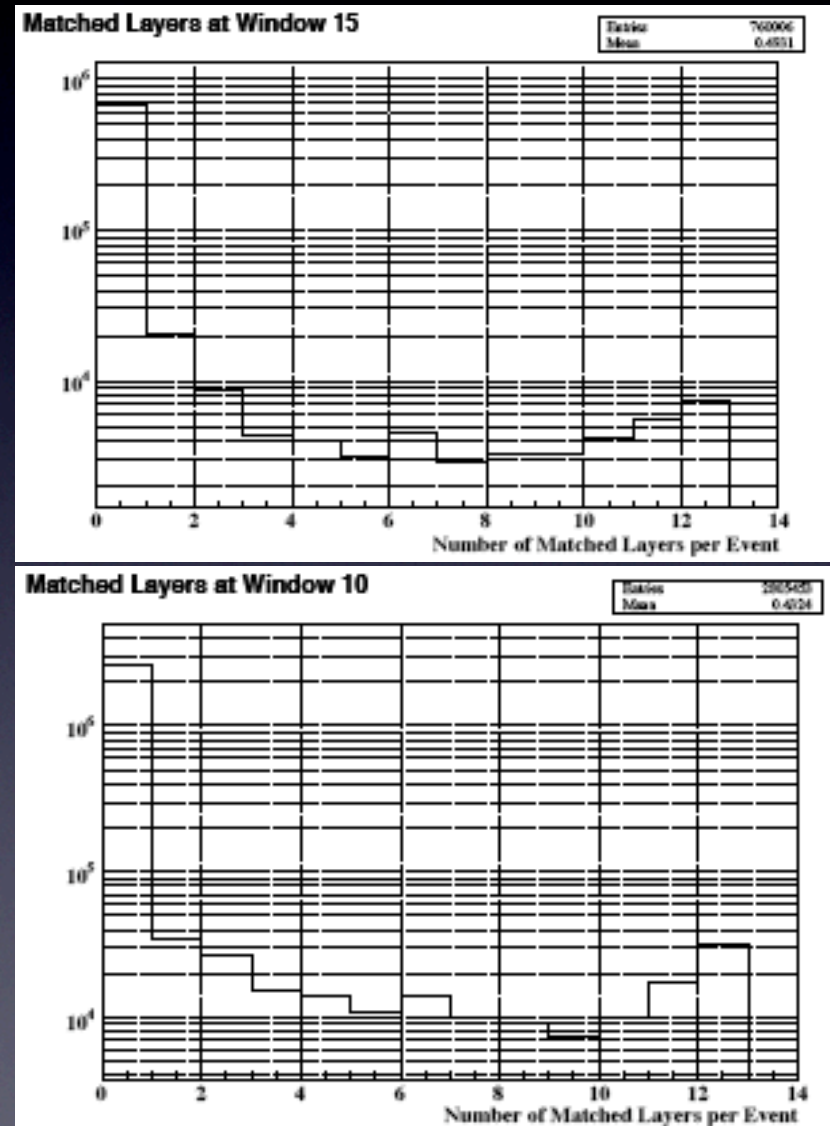
- MDC-Info -> where a Particle cross the RICH
- have smaller Area to search for Rings
- improve Ring-Search-Algorithm





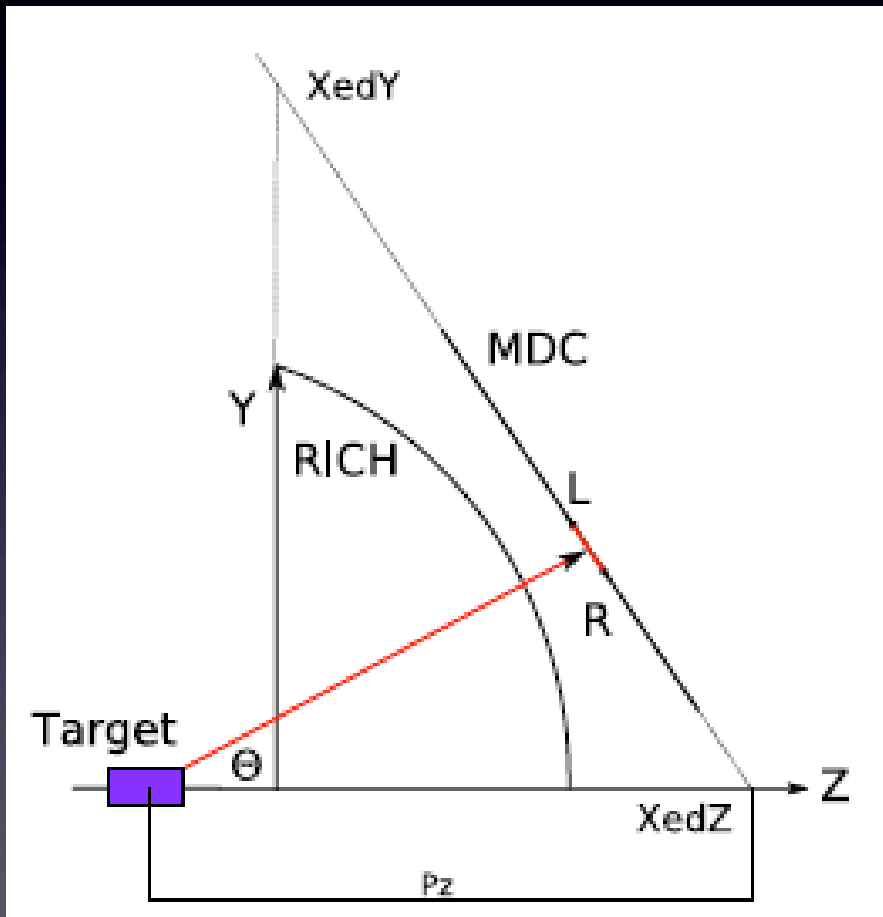
# The Reason

- a RICH-MDC  
Correlation made by  
Daniel Kirschner
- good Results, get better  
Trigger decision
- most Rings are Fakes
- turn it around



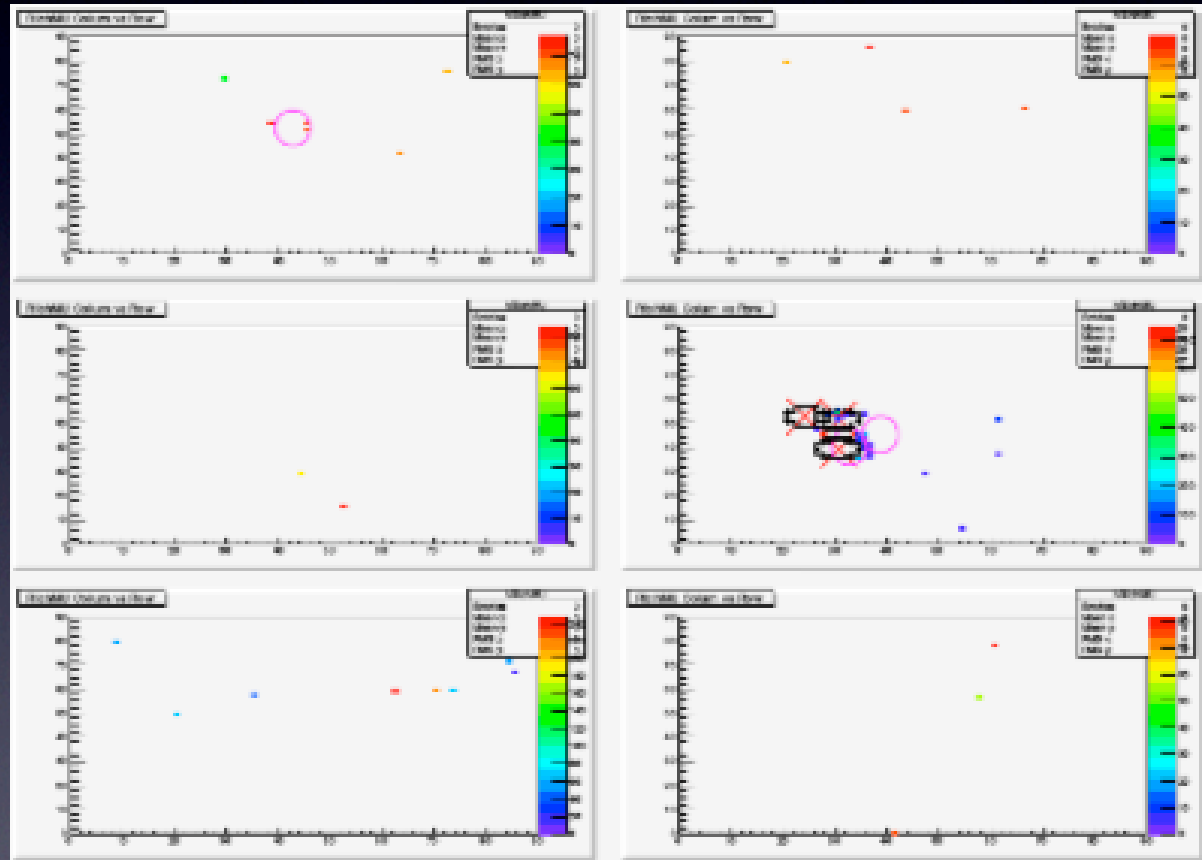
# The Idea

- MDC-Info -> a possible Ringcenter
- Charge-Info -> photon fired the Pad
- Compute Nodes -> more compute Power -> improved algorithm

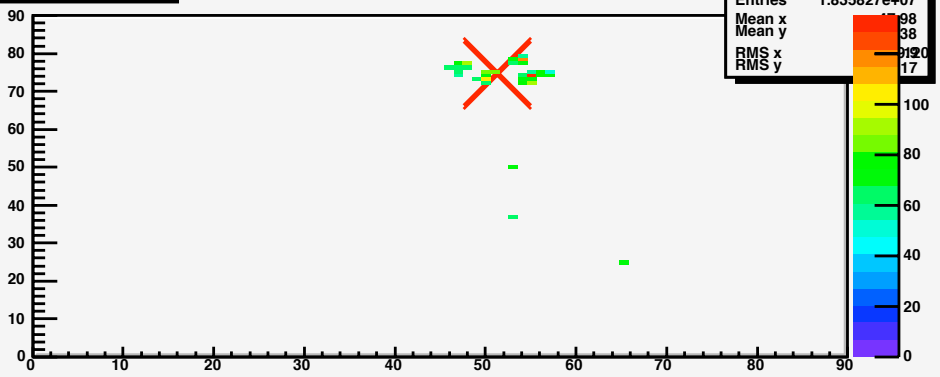


# What is done

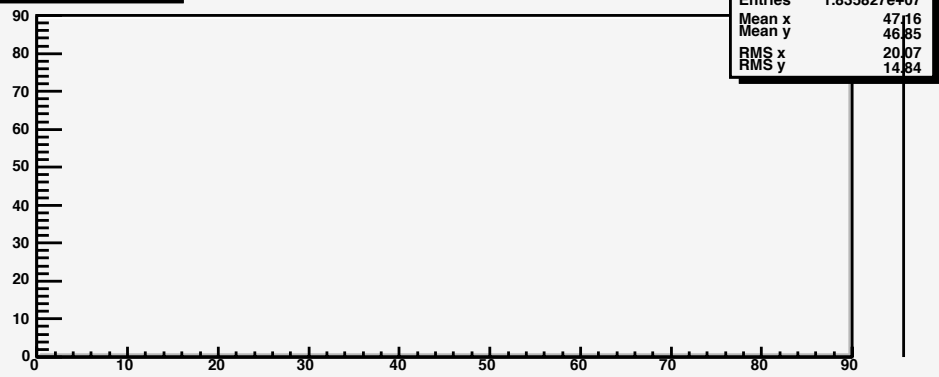
- Framework to show single events
- implement a Mask-Search Algorithm
- Cluster finding not yet implemented
- triggered vs. offline Rings
- triggered vs. downscaled rings



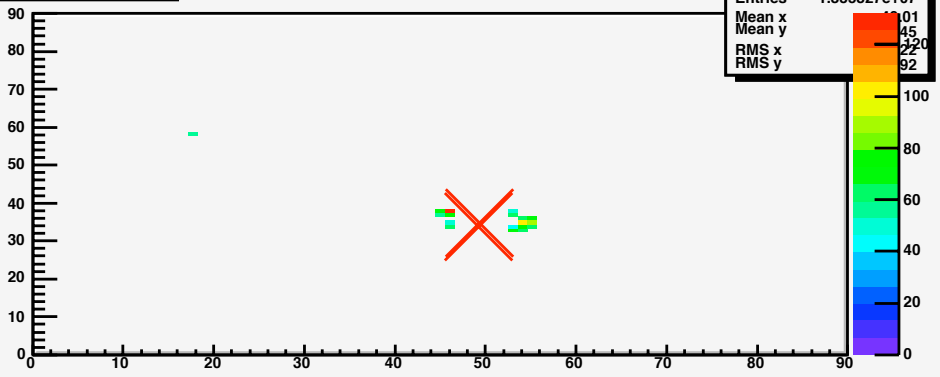
RichRaw Colum vs Row



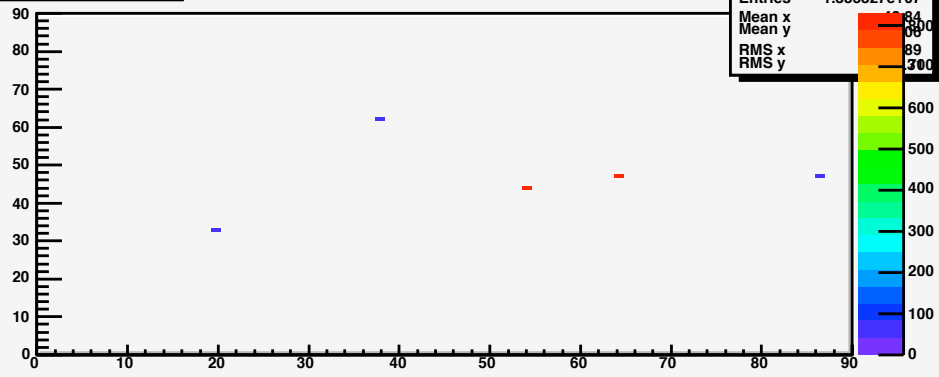
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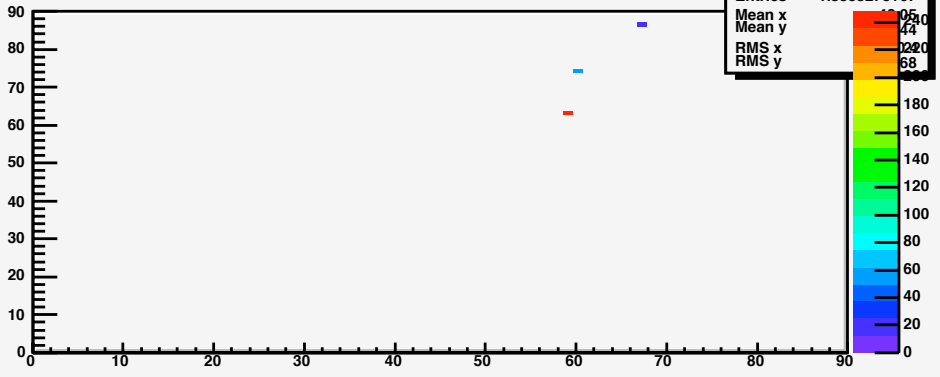
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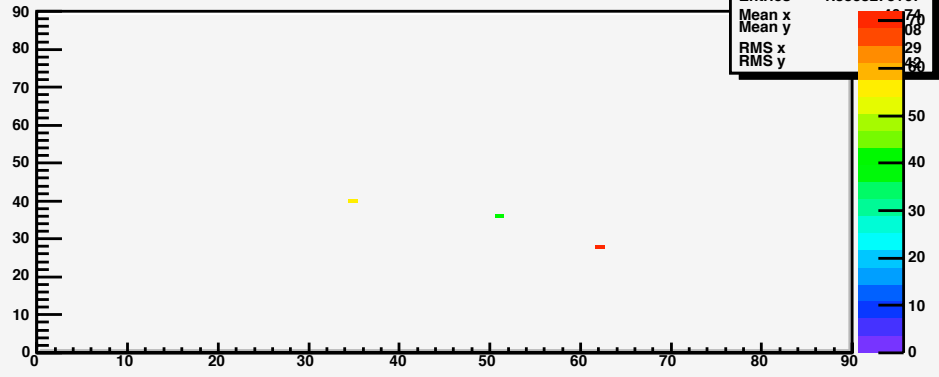
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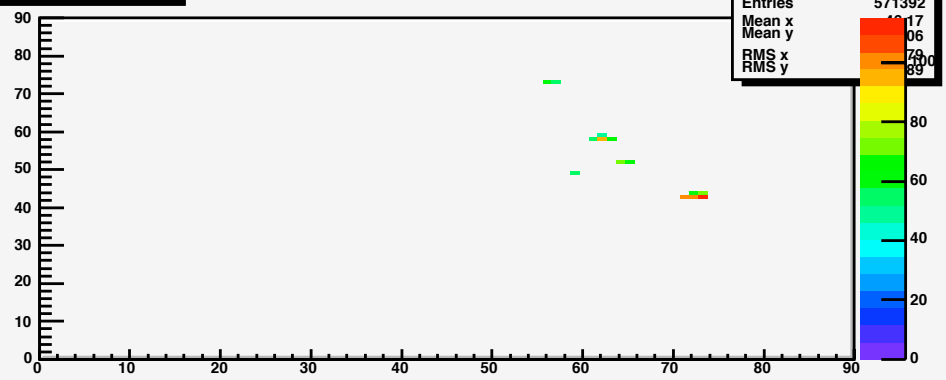
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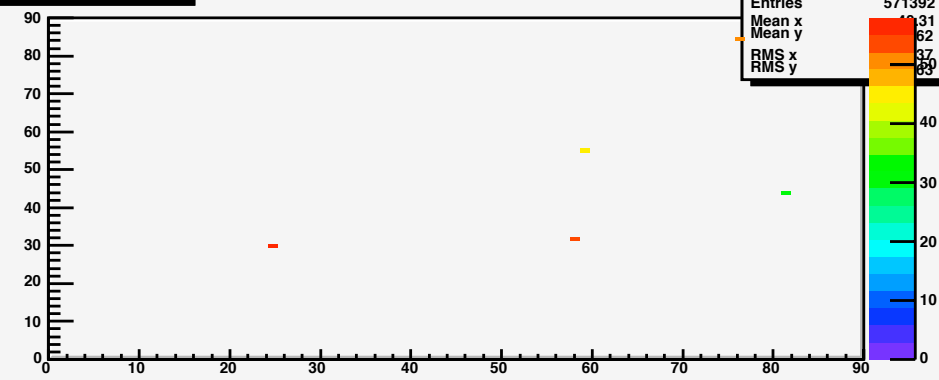
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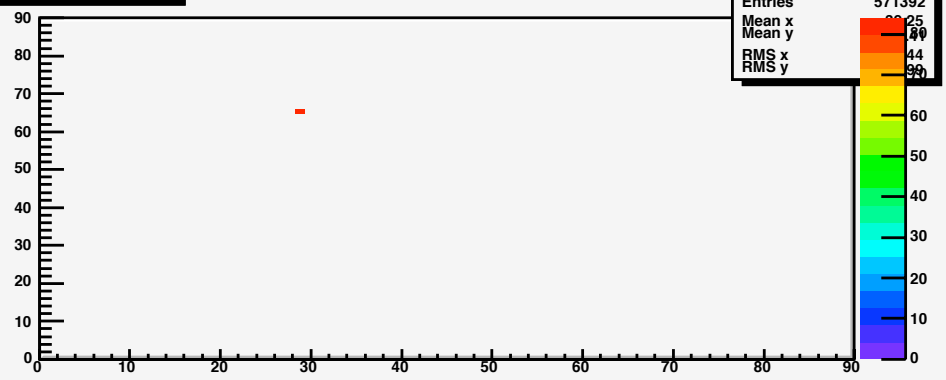
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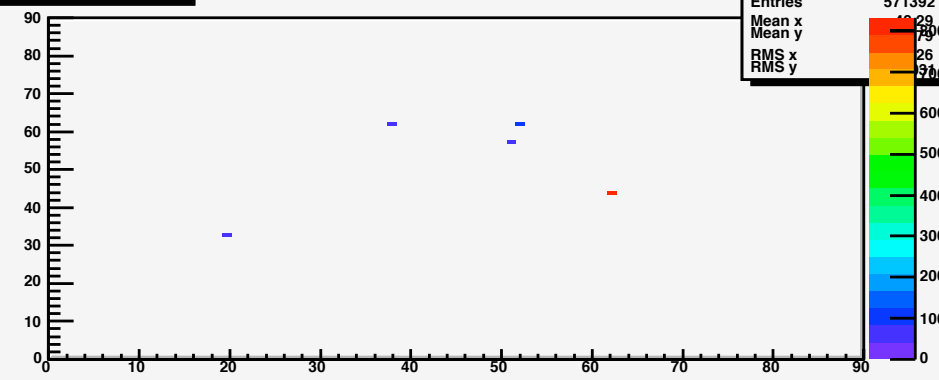
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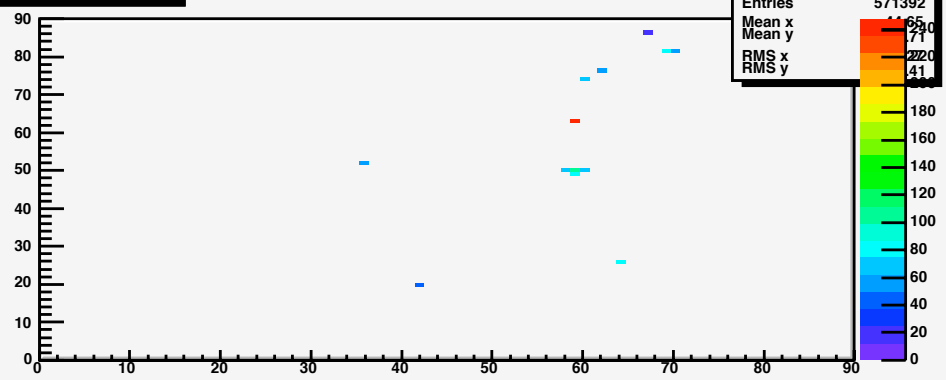
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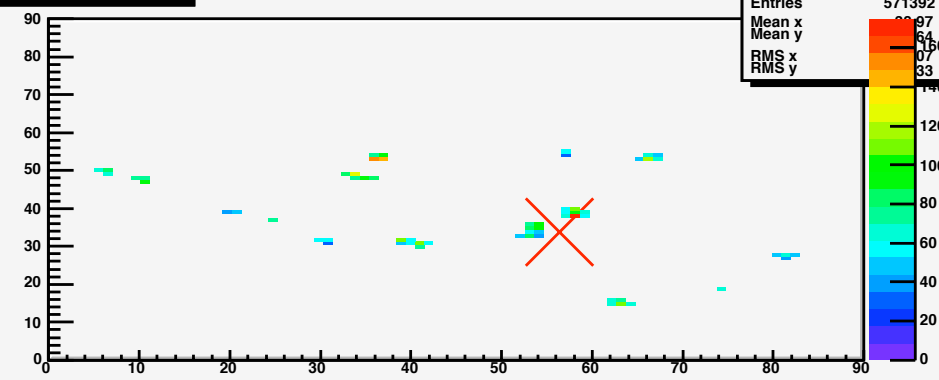
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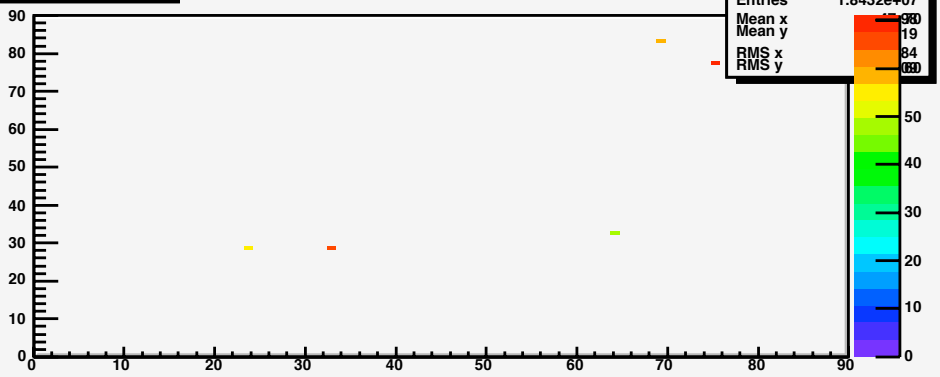
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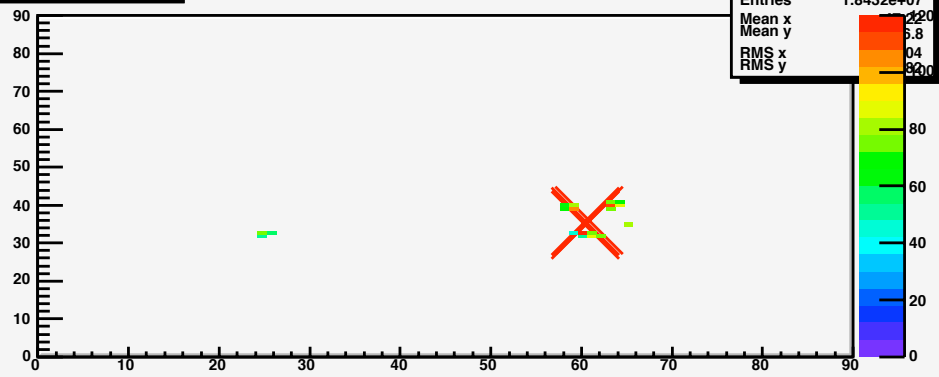
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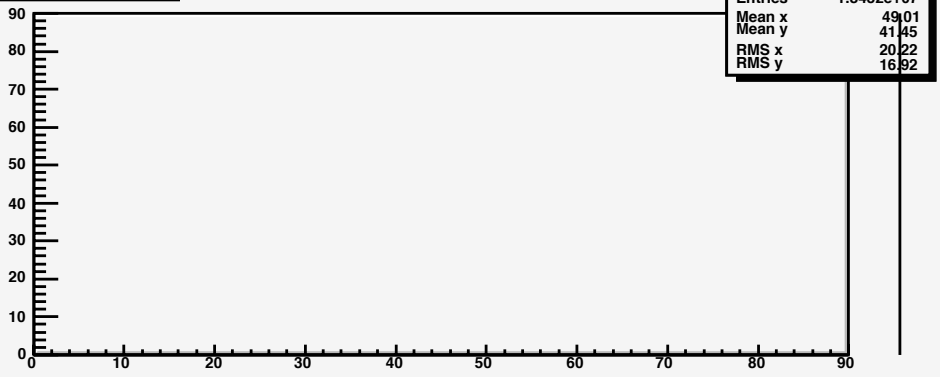
RichRaw Colum vs Row



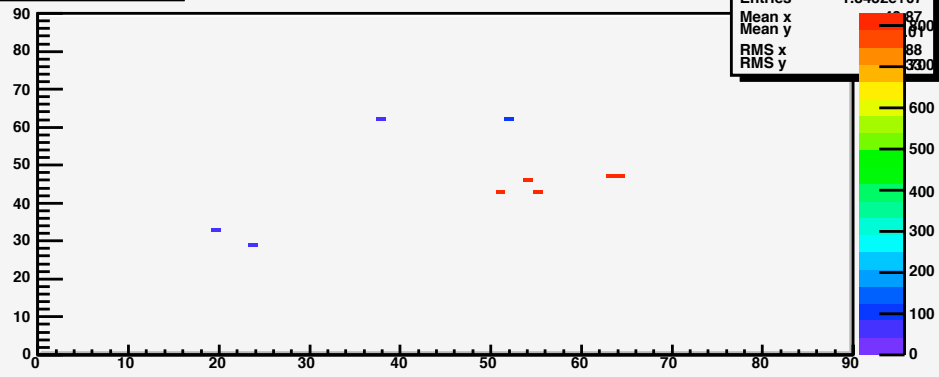
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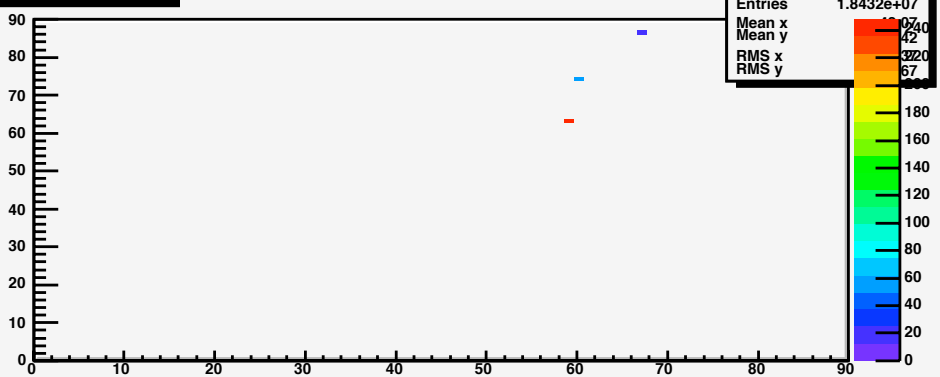
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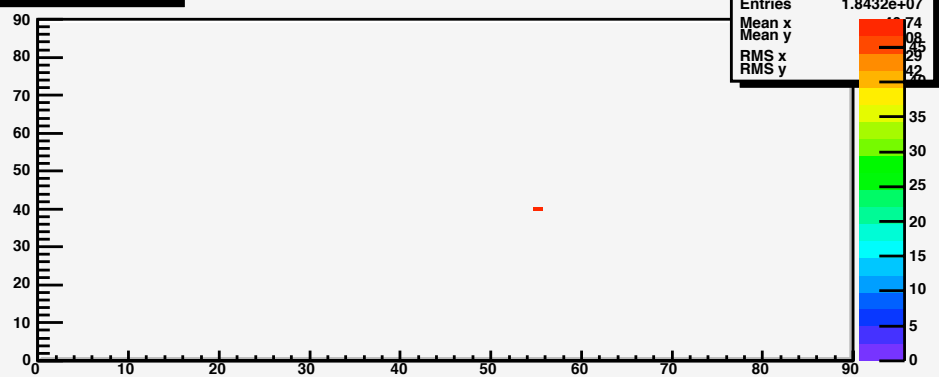
RichRaw Colum vs Row



RichRaw Colum vs Row



RichRaw Colum vs Row





# To Do

- implement Clusterfinding
- get the Framework ready
- get the Charge informations in the algorithm
- try some other Ringfinding algorithm
- think about a possibility to compare algorithms
- compare algorithms to offline analysis
- ...