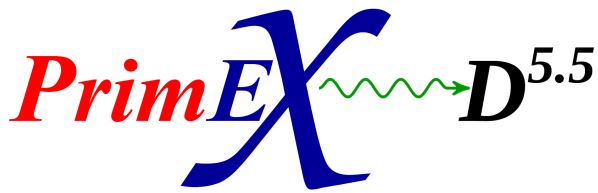
FCAL energy calibration QC

Igal Jaeglé

Thomas Jefferson National Accelerator Facility

for the GlueX Collaboration

April 27, 2025
2025-01-period-14-iteration-4-method-2



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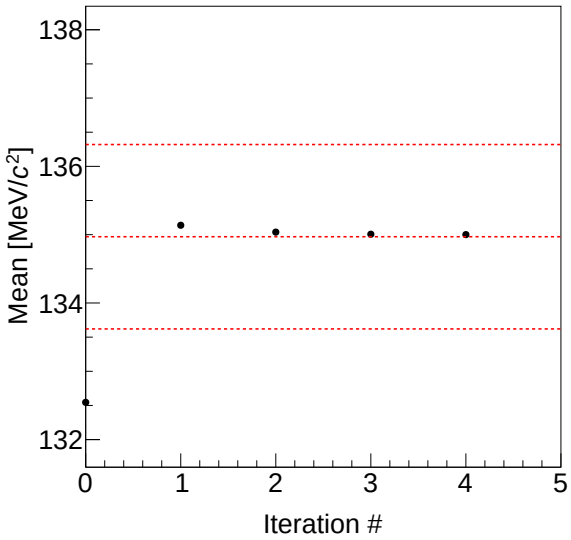
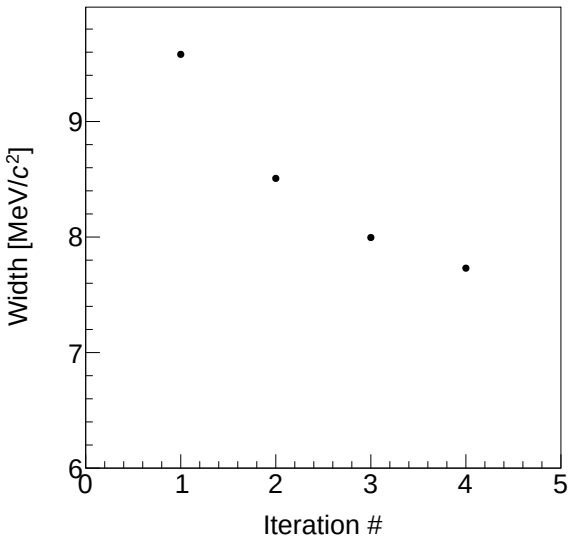
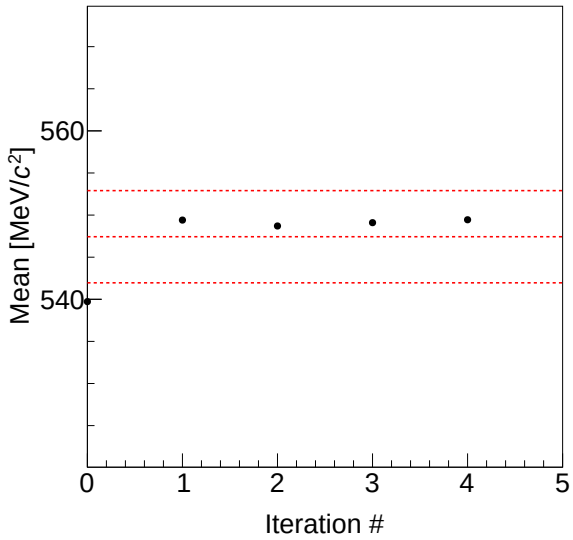
Overall QC vs iteration

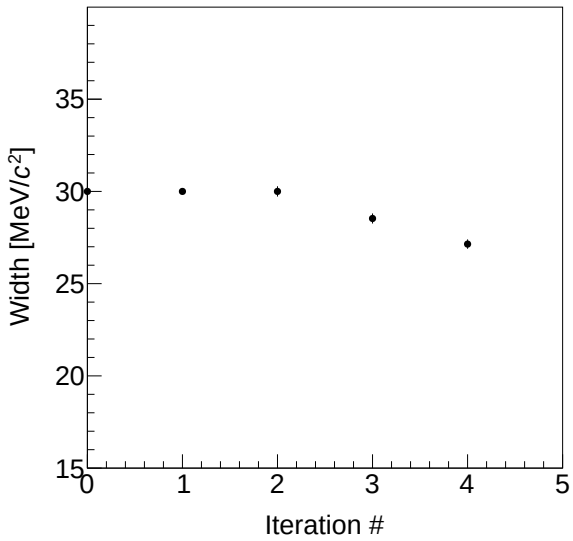
- π^0





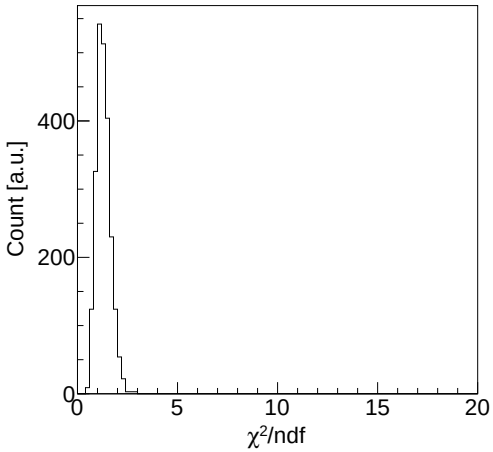
- η



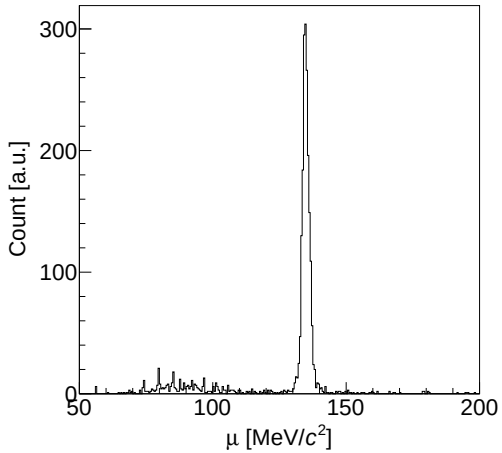


Overall QC, summary distributions

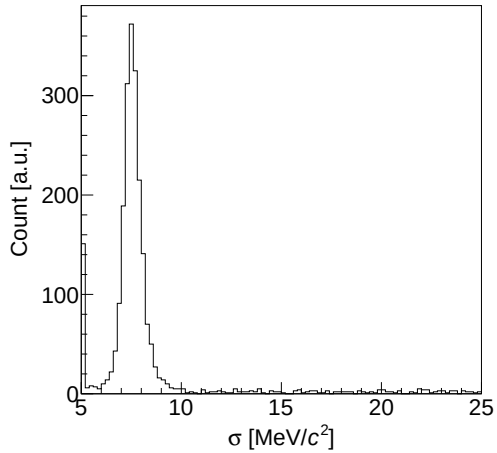
- χ^2 distribution



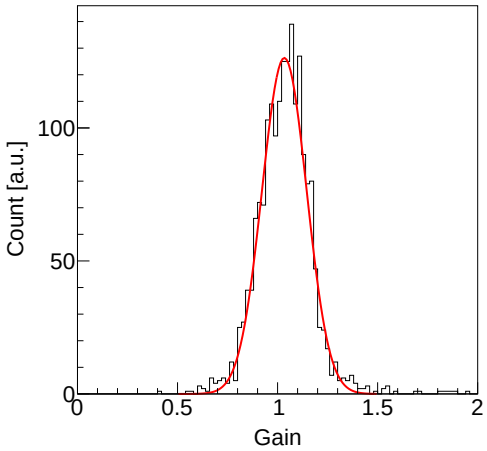
- Fitted peak distribution



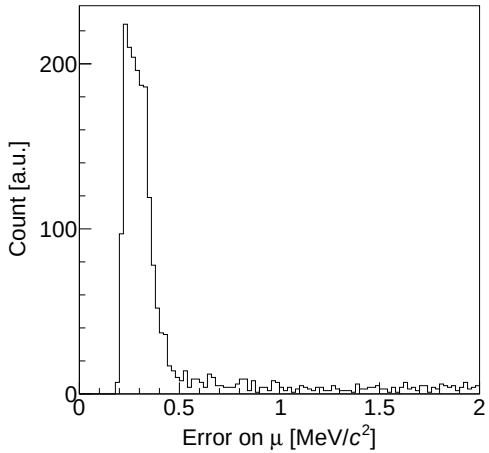
- Fitted width distribution



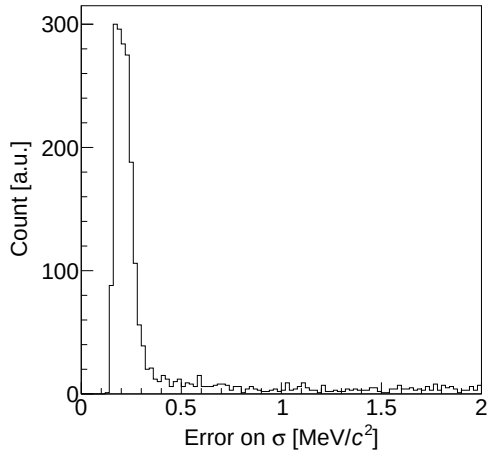
- Gain distribution



- Fitted peak error distribution

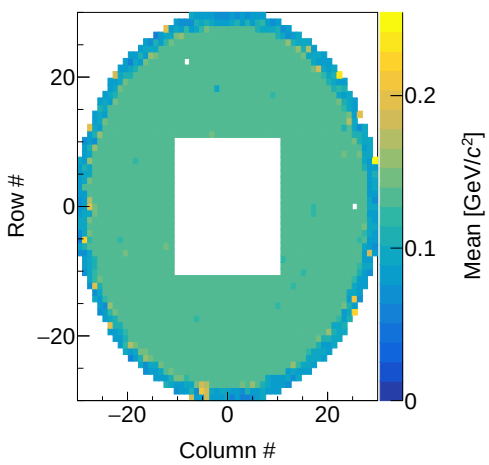


- Fitted width error distribution

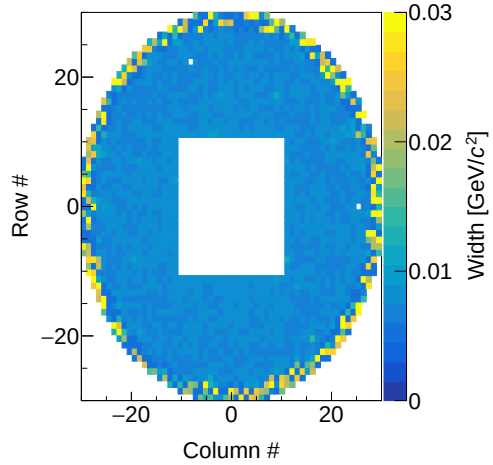


Overall QC, summary maps

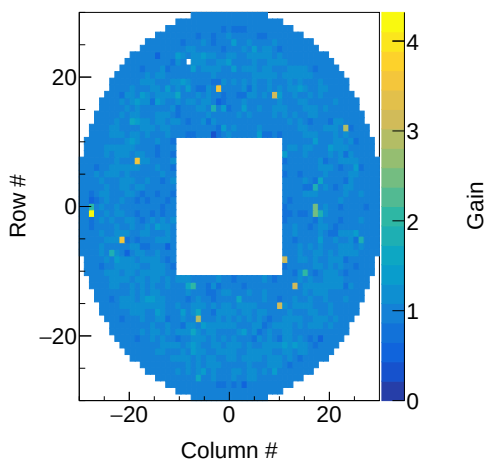
- Fitted peak map



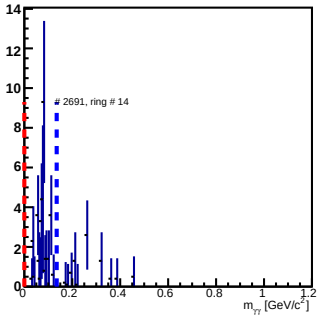
- Fitted width map

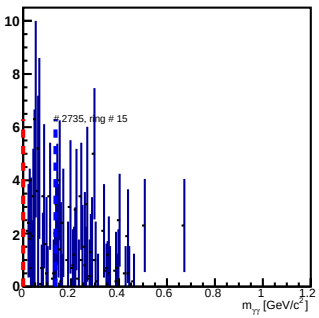


- Gain map



Overall QC, bad channels

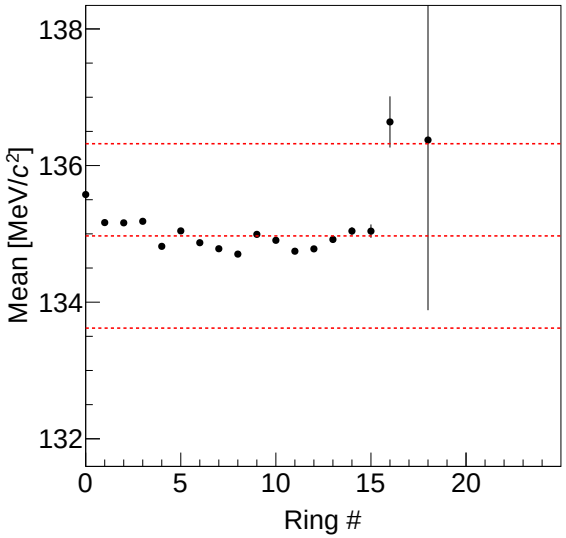


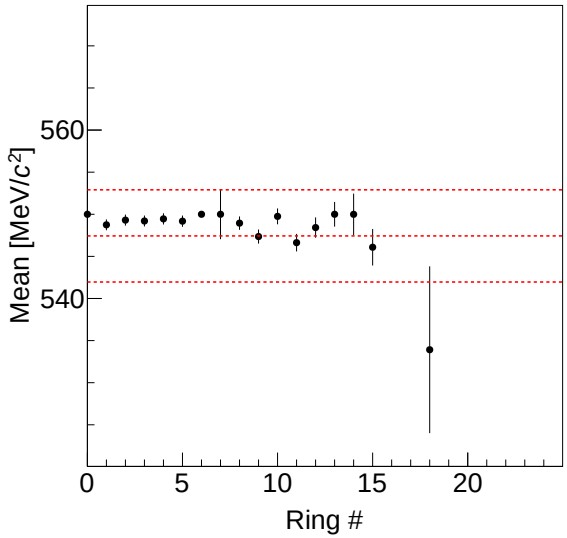


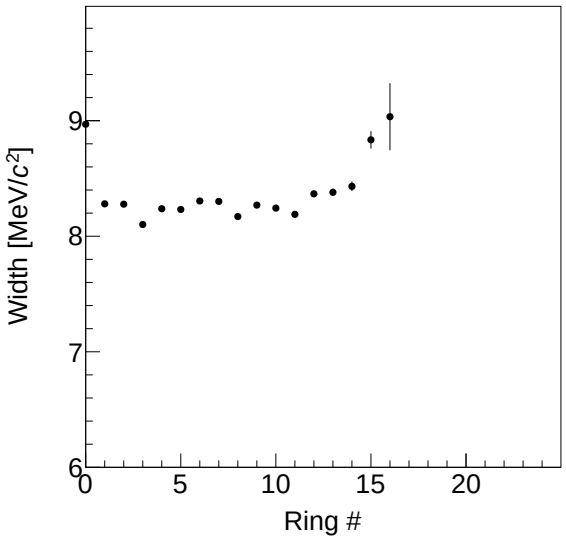
QC per rings

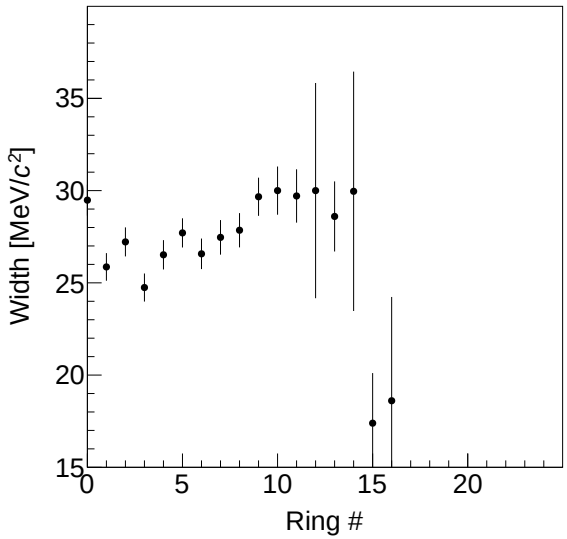
There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

- π^0
- η





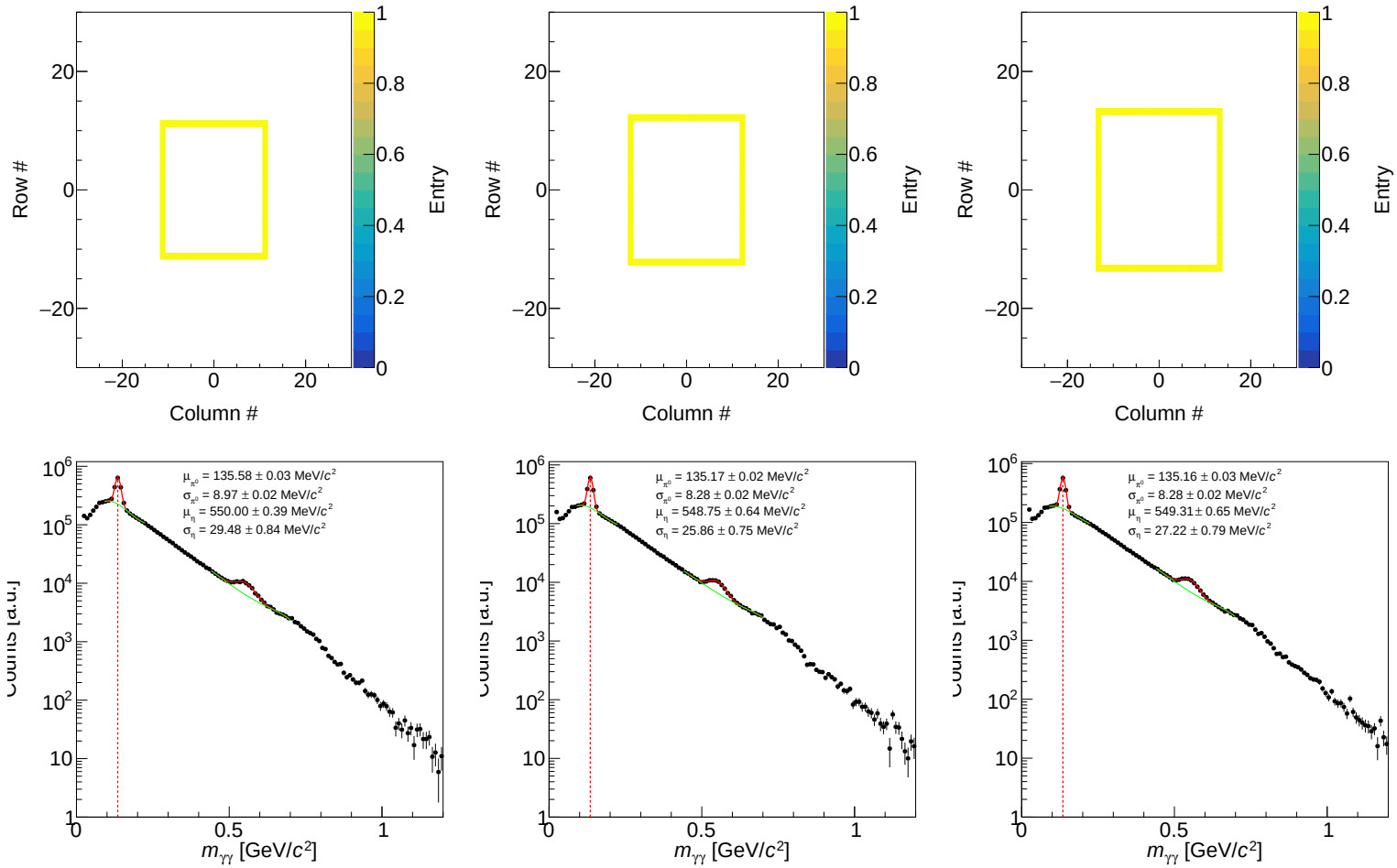




QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

- Ring 0
- Ring 1
- Ring 2



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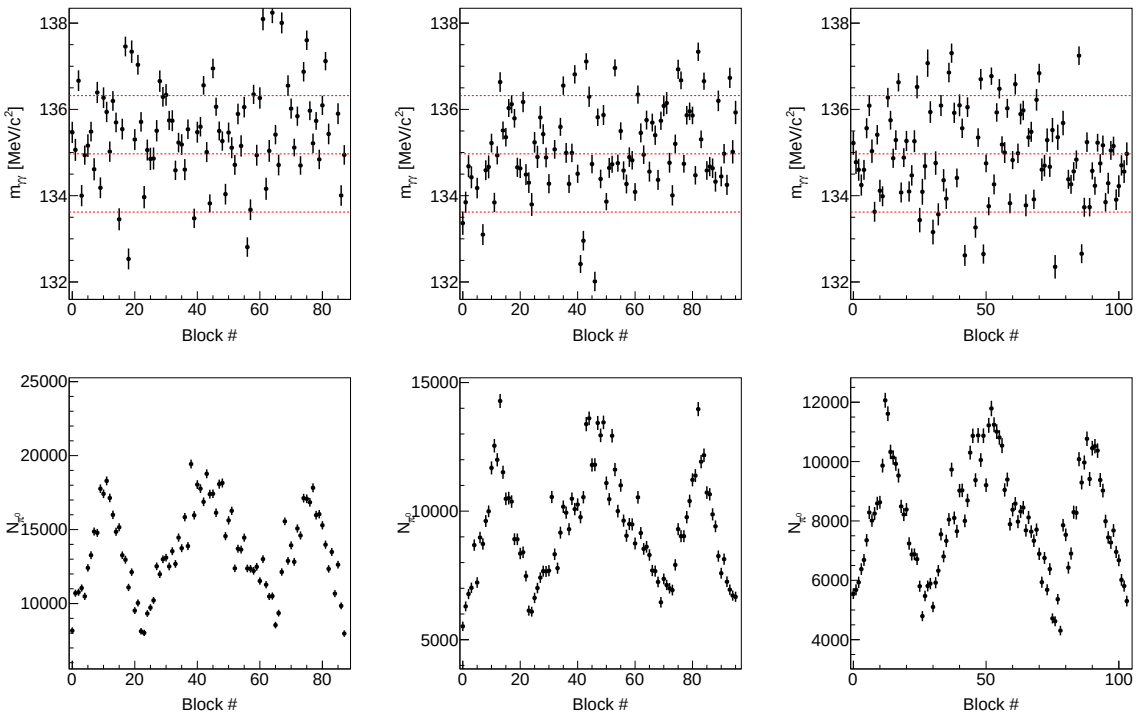
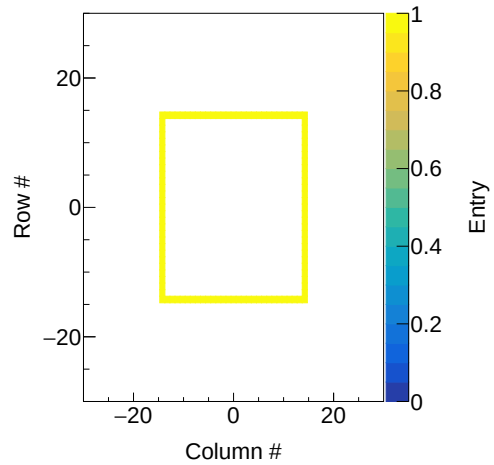
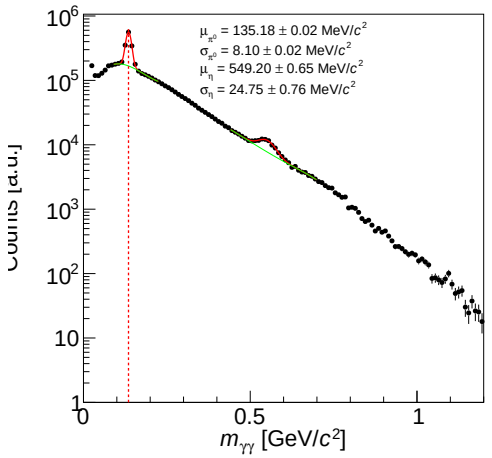


QC per rings

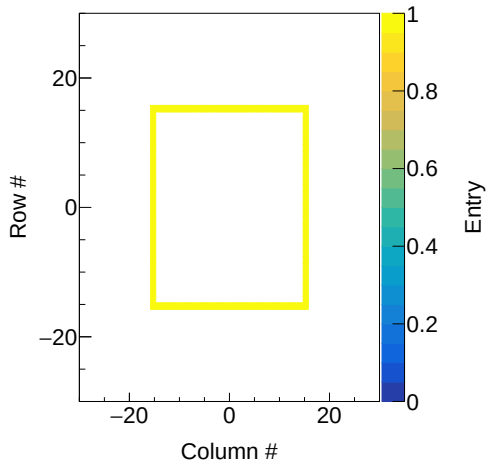
There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

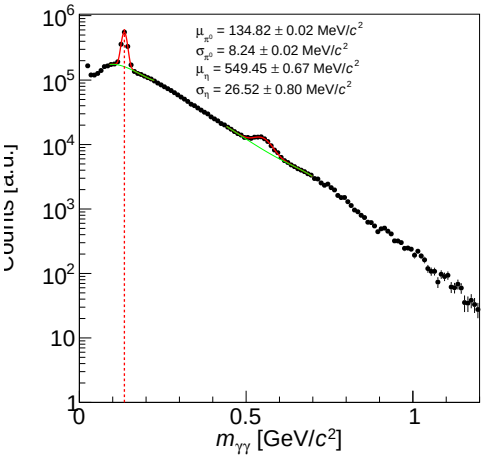
- Ring 3



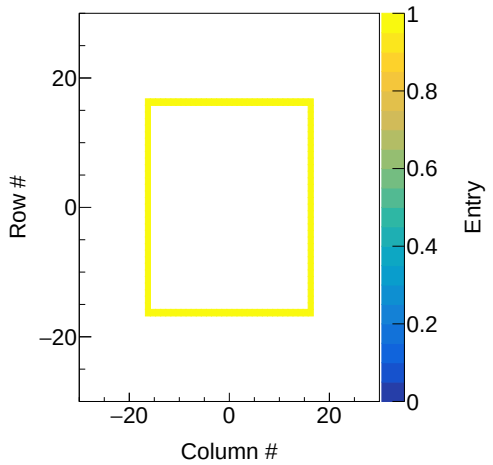


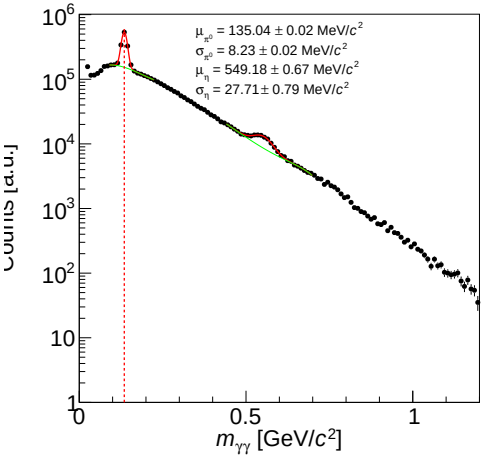
- Ring 4





- Ring 5

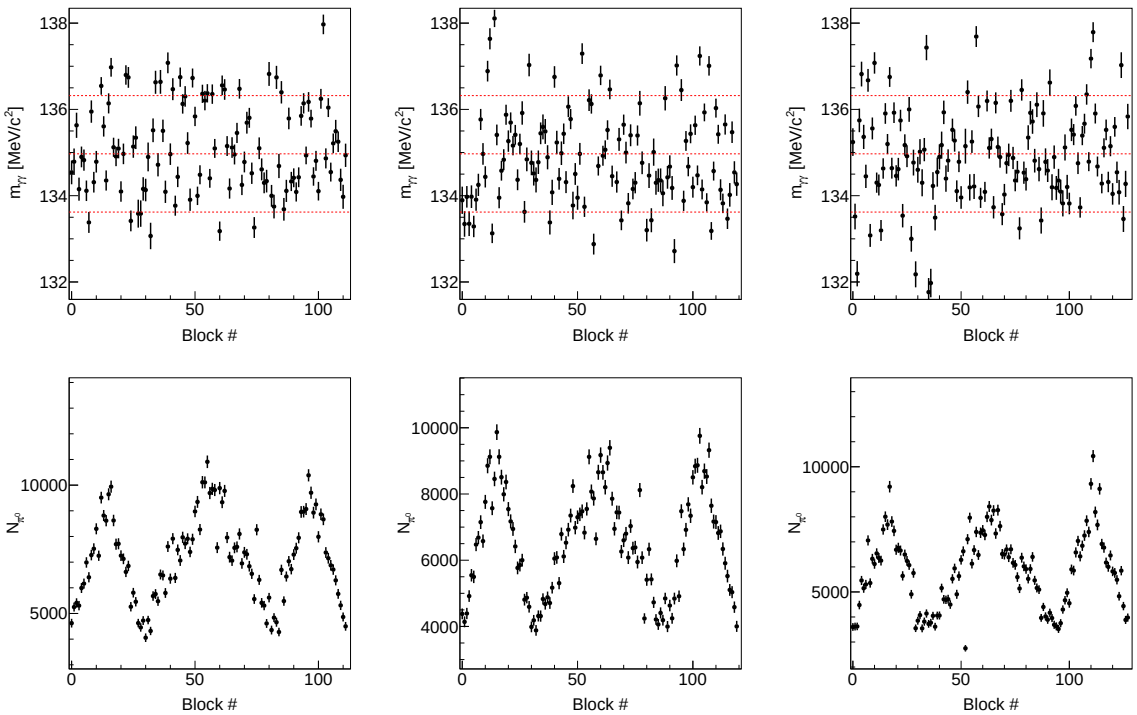




QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

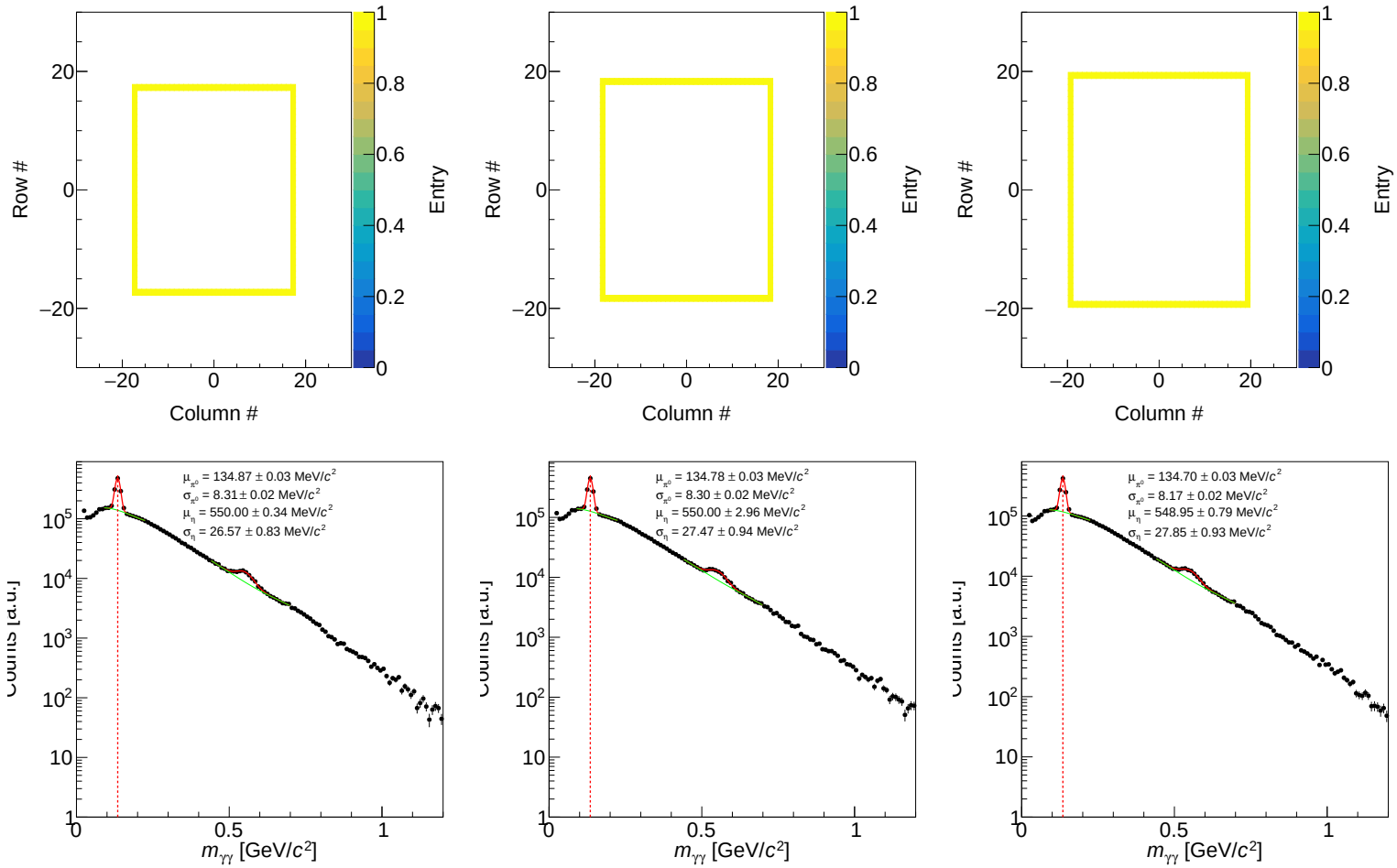
- Ring 3
- Ring 4
- Ring 5



QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

- Ring 6
- Ring 7
- Ring 8



QC per rings

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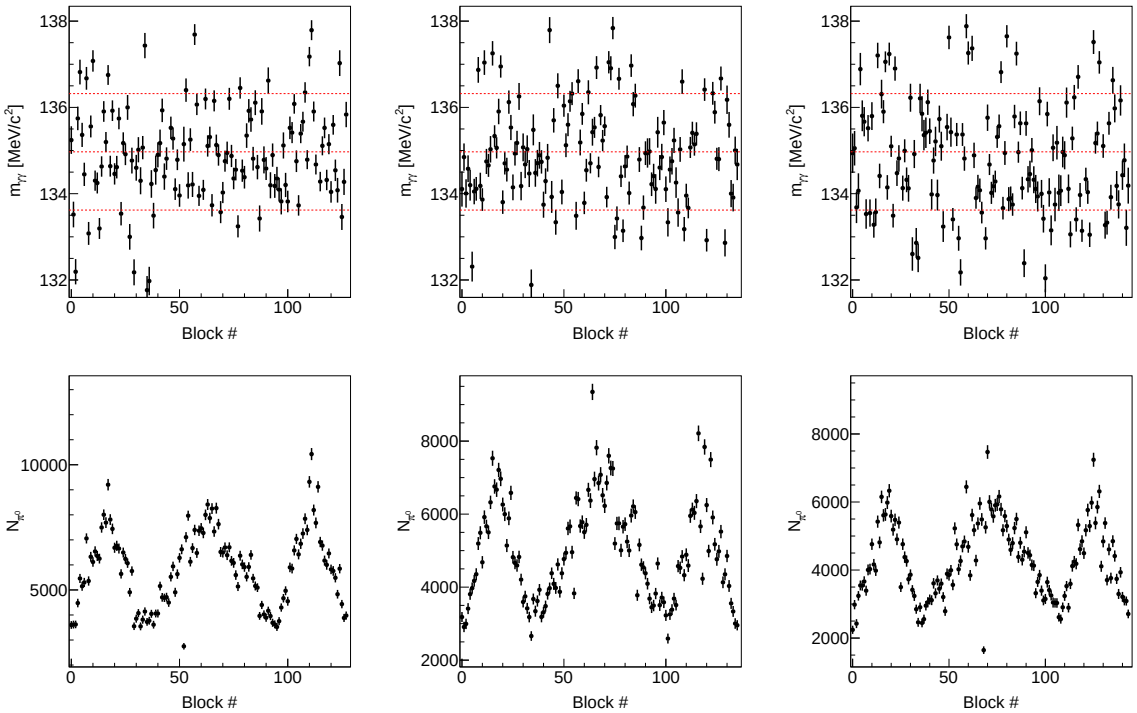
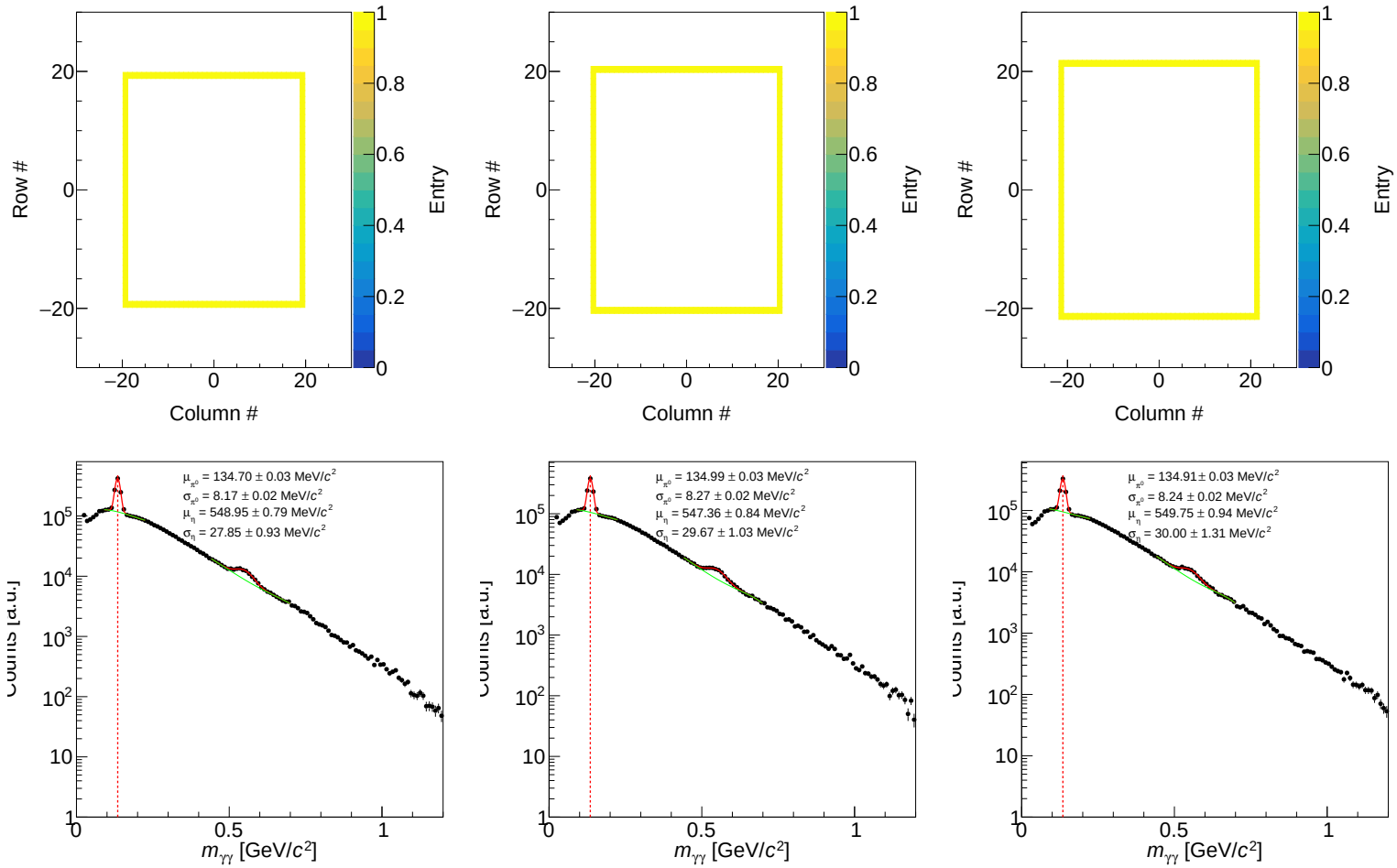


QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

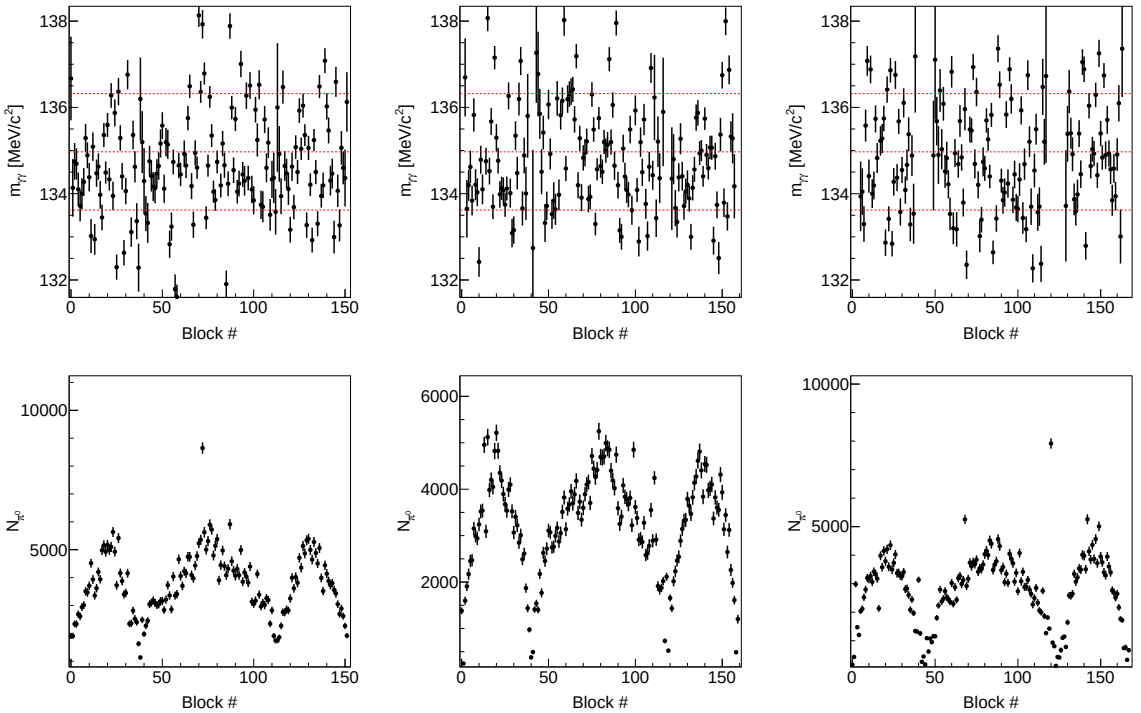
- Ring 8
- Ring 9
- Ring 10



QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

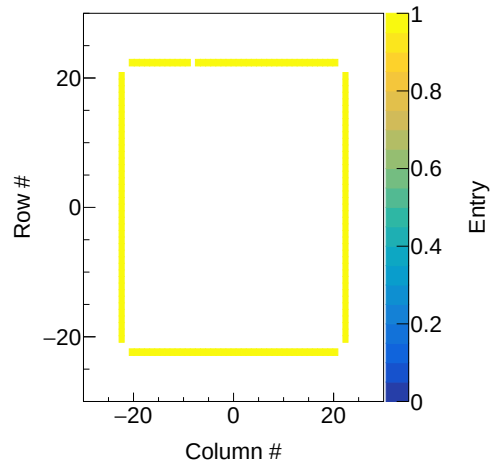
- Ring 8
- Ring 9
- Ring 10

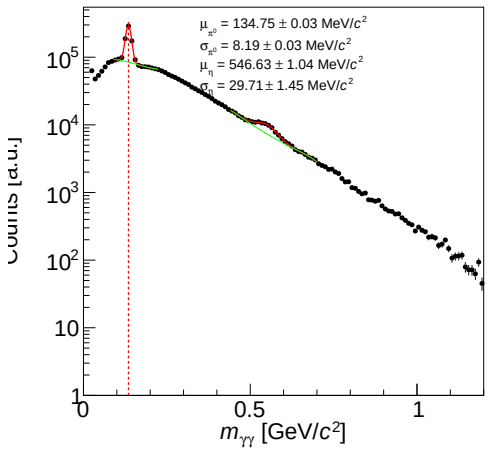


QC per rings

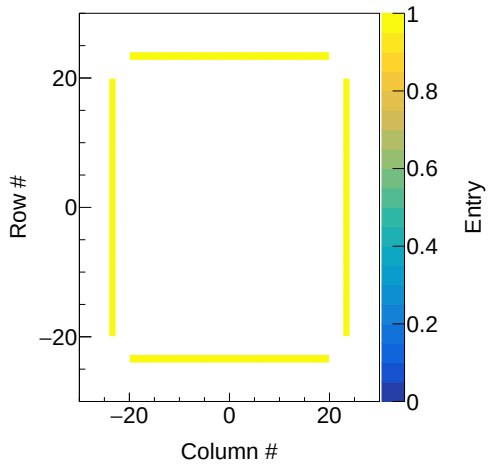
There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

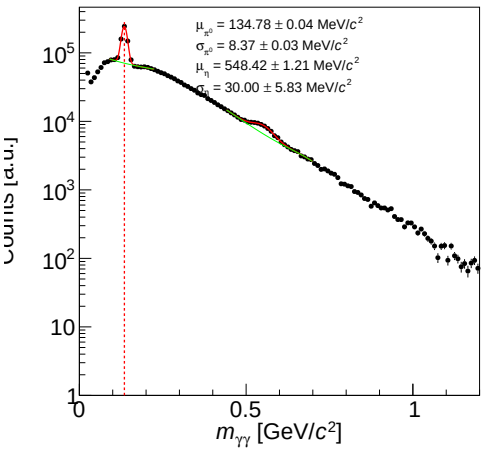
- Ring 11



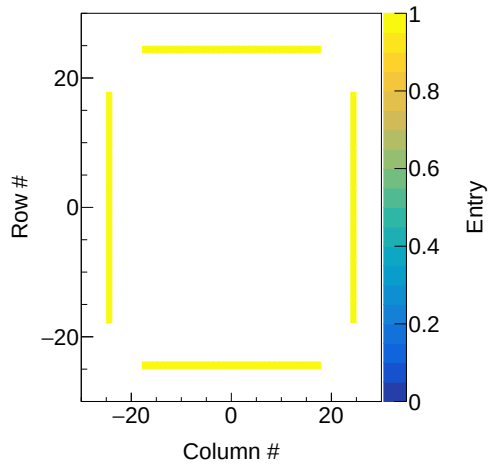


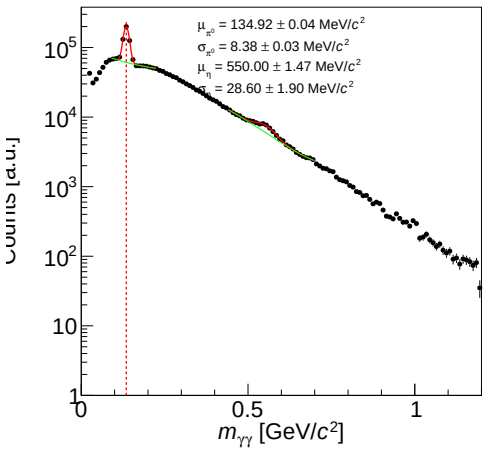
- Ring 12





- Ring 13

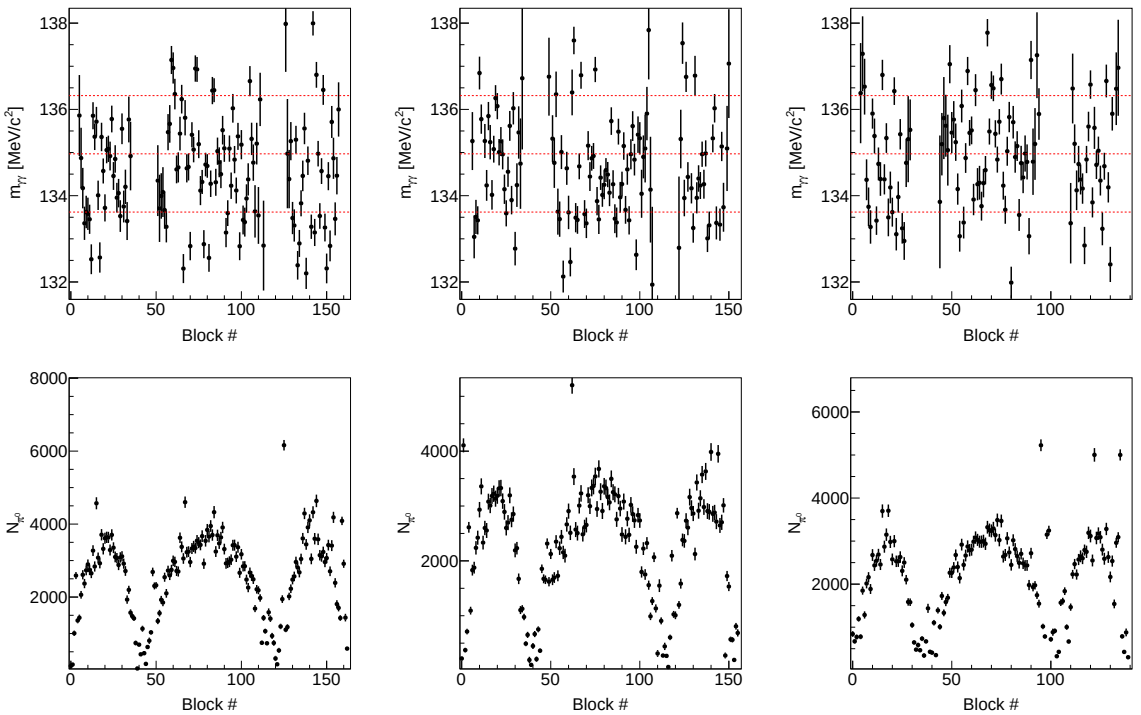




QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

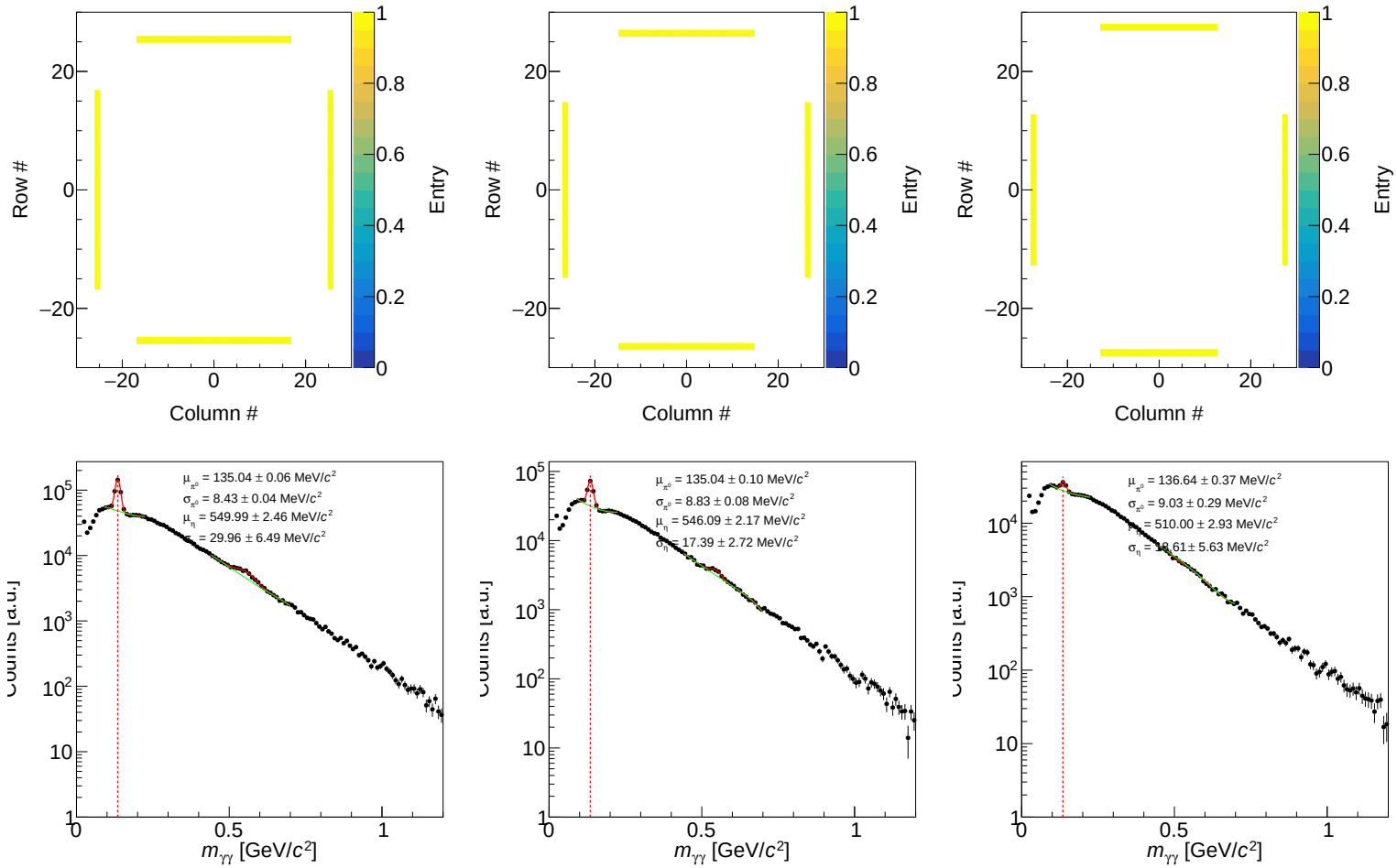
- Ring 11
- Ring 12
- Ring 13



QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

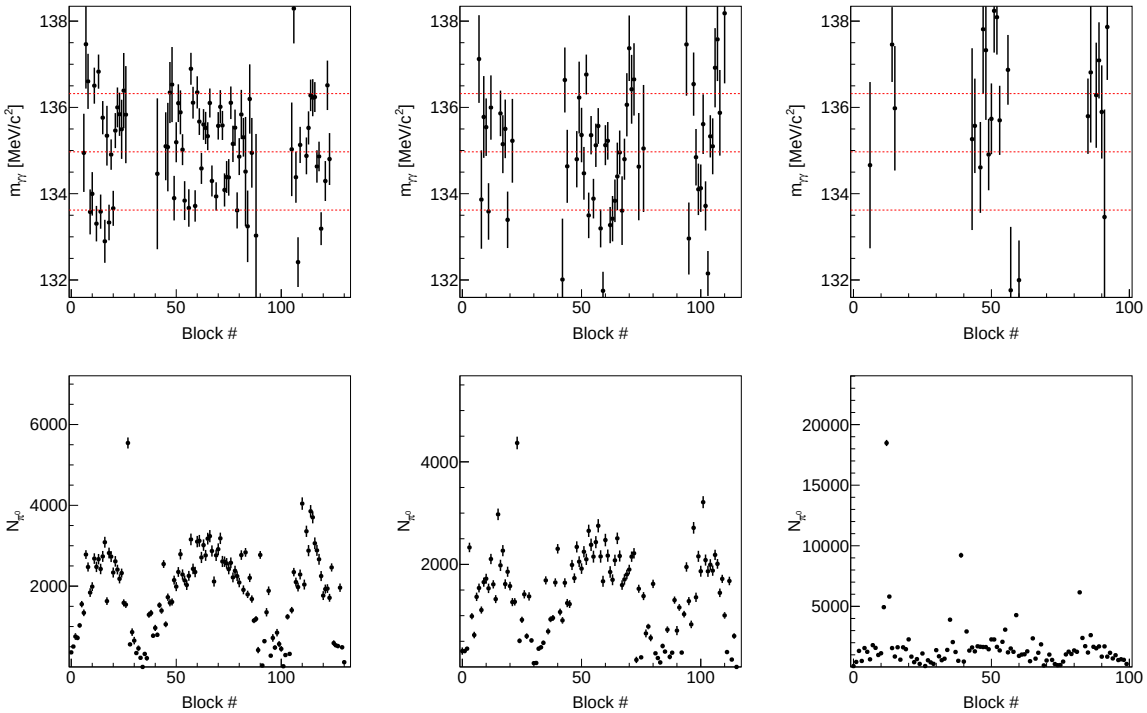
- Ring 14
- Ring 15
- Ring 16



QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

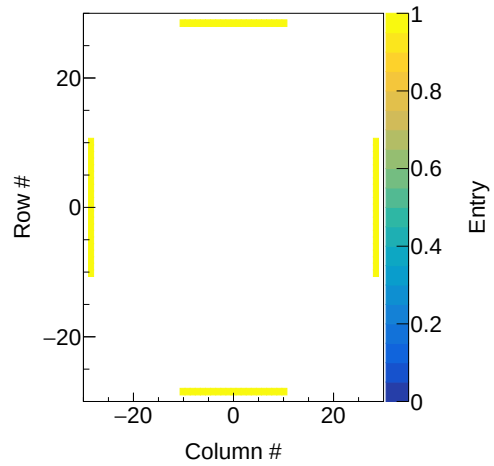
- Ring 14
- Ring 15
- Ring 16

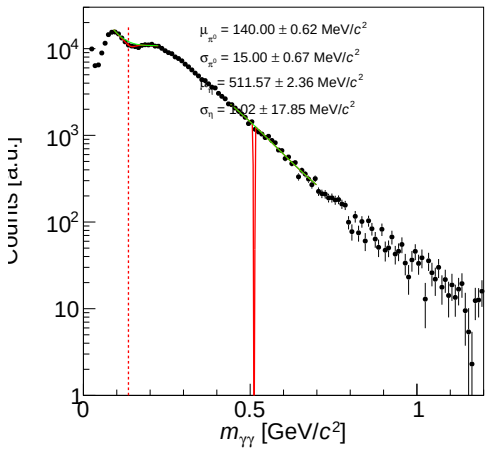


QC per rings

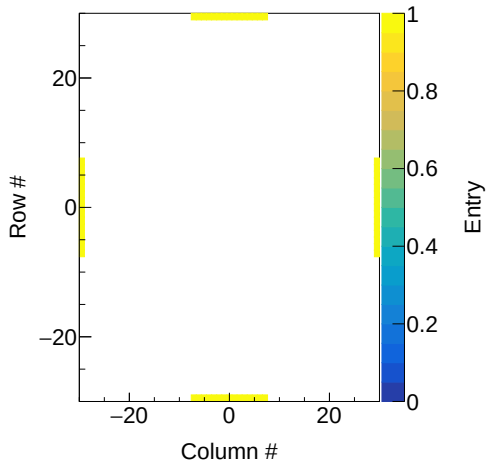
There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

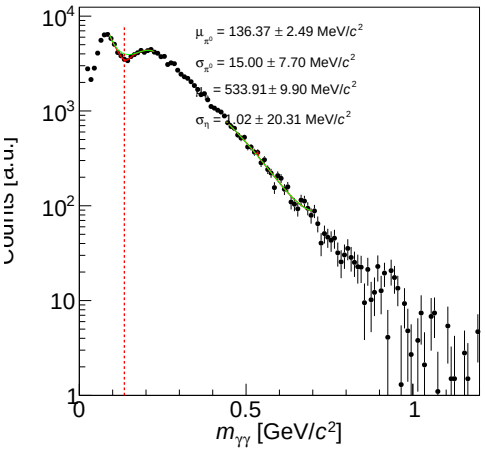
- Ring 17





- Ring 18

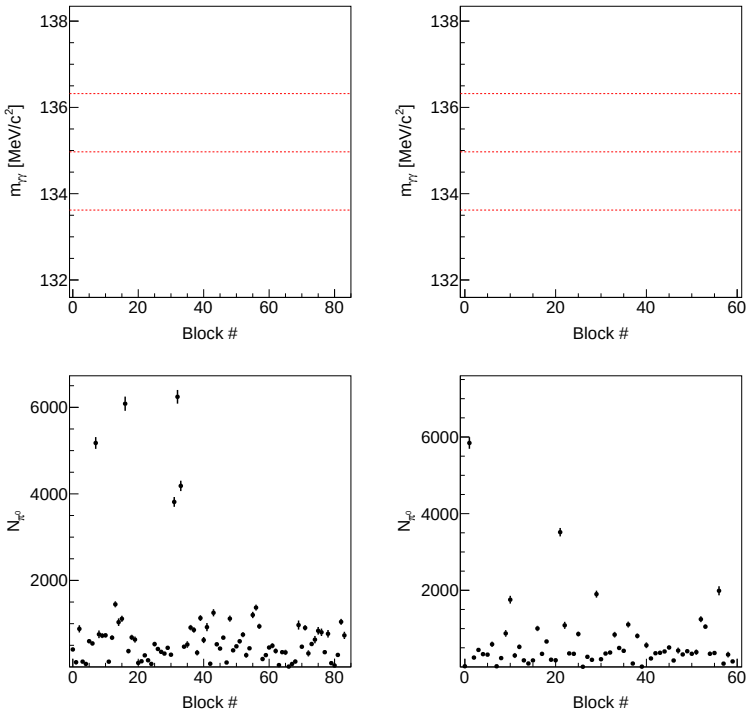




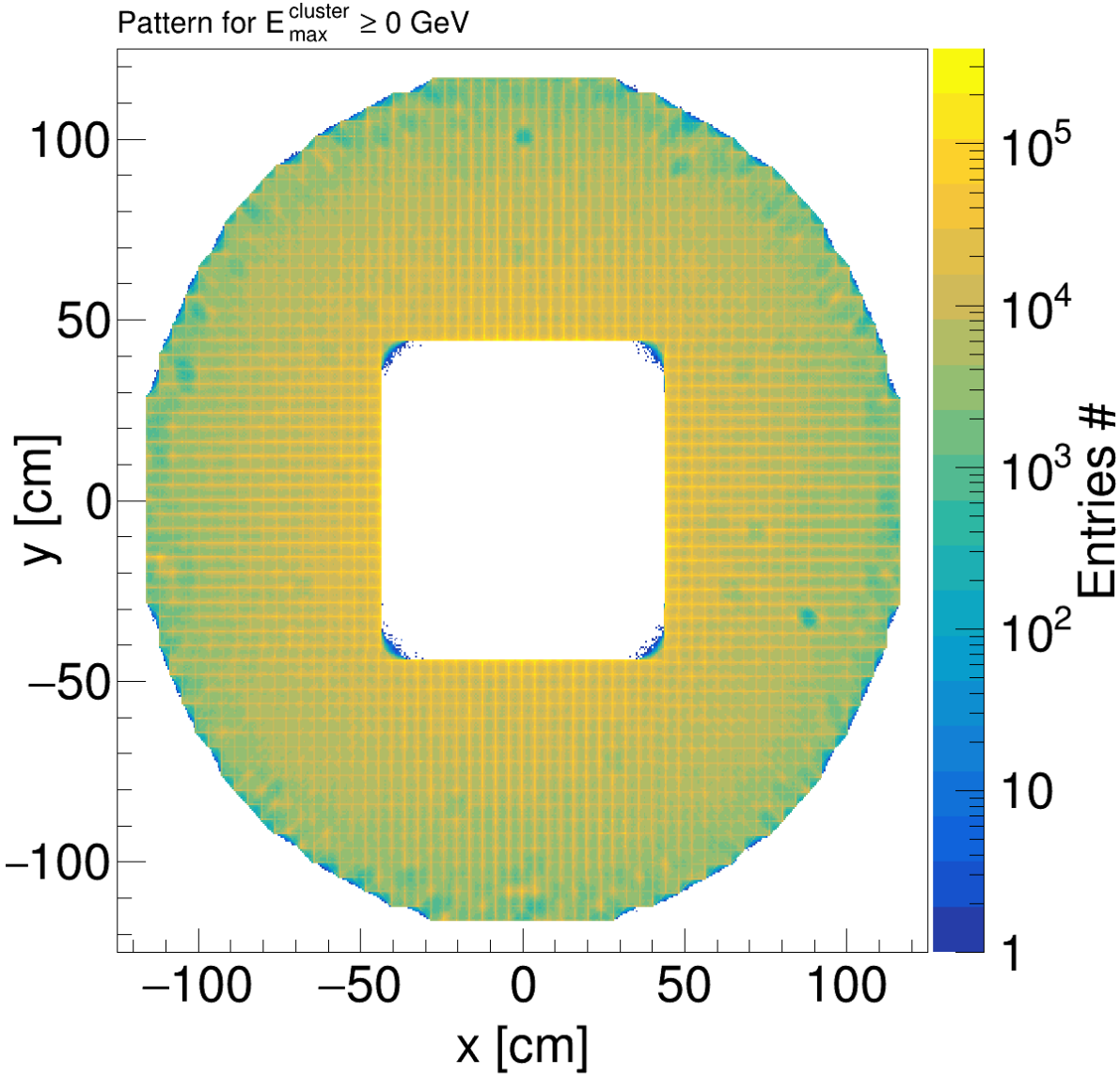
QC per rings

There are 19 squared layers, from 0 to 18, but in reality from 11 to 29

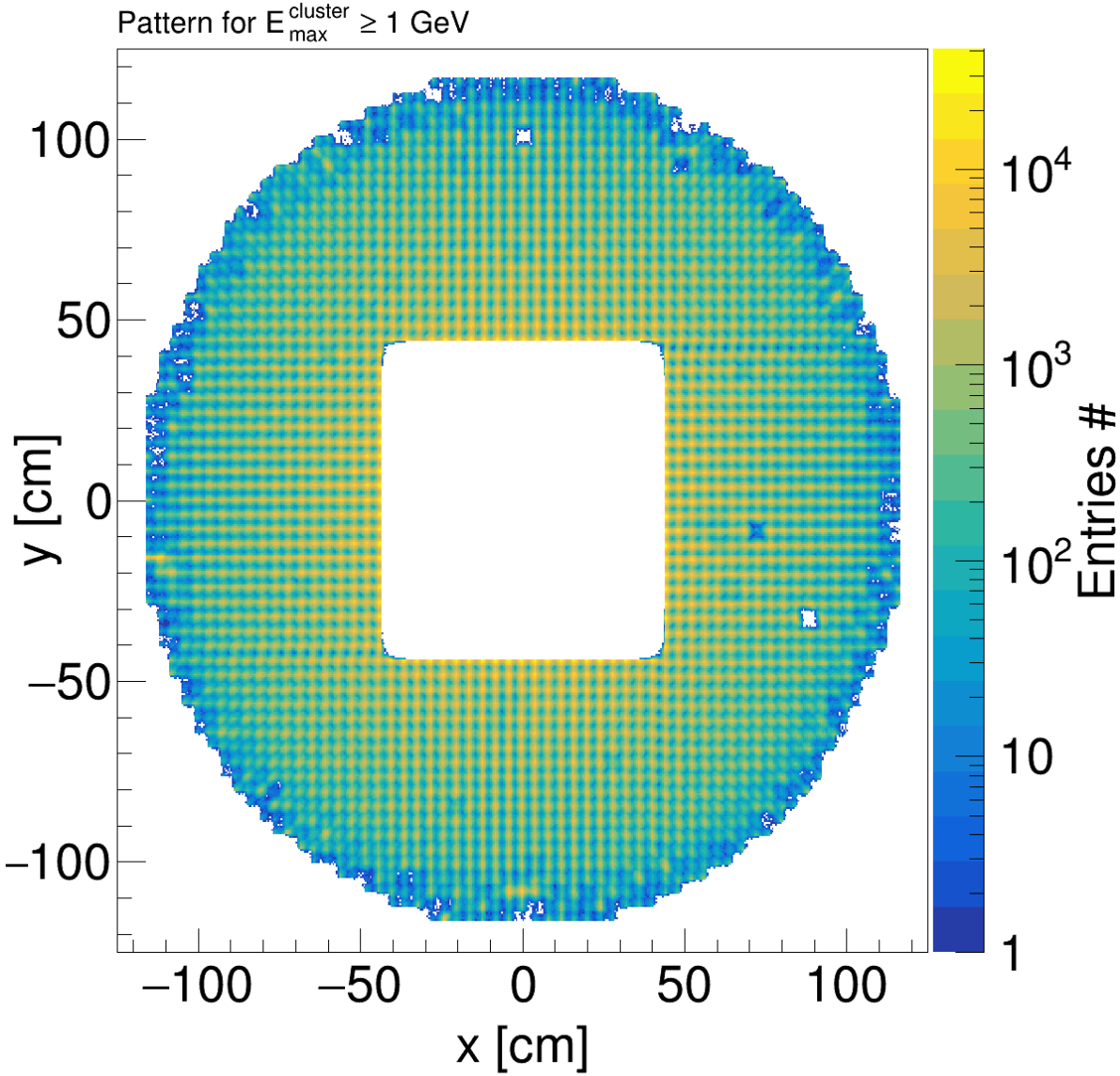
- Ring 17
- Ring 18



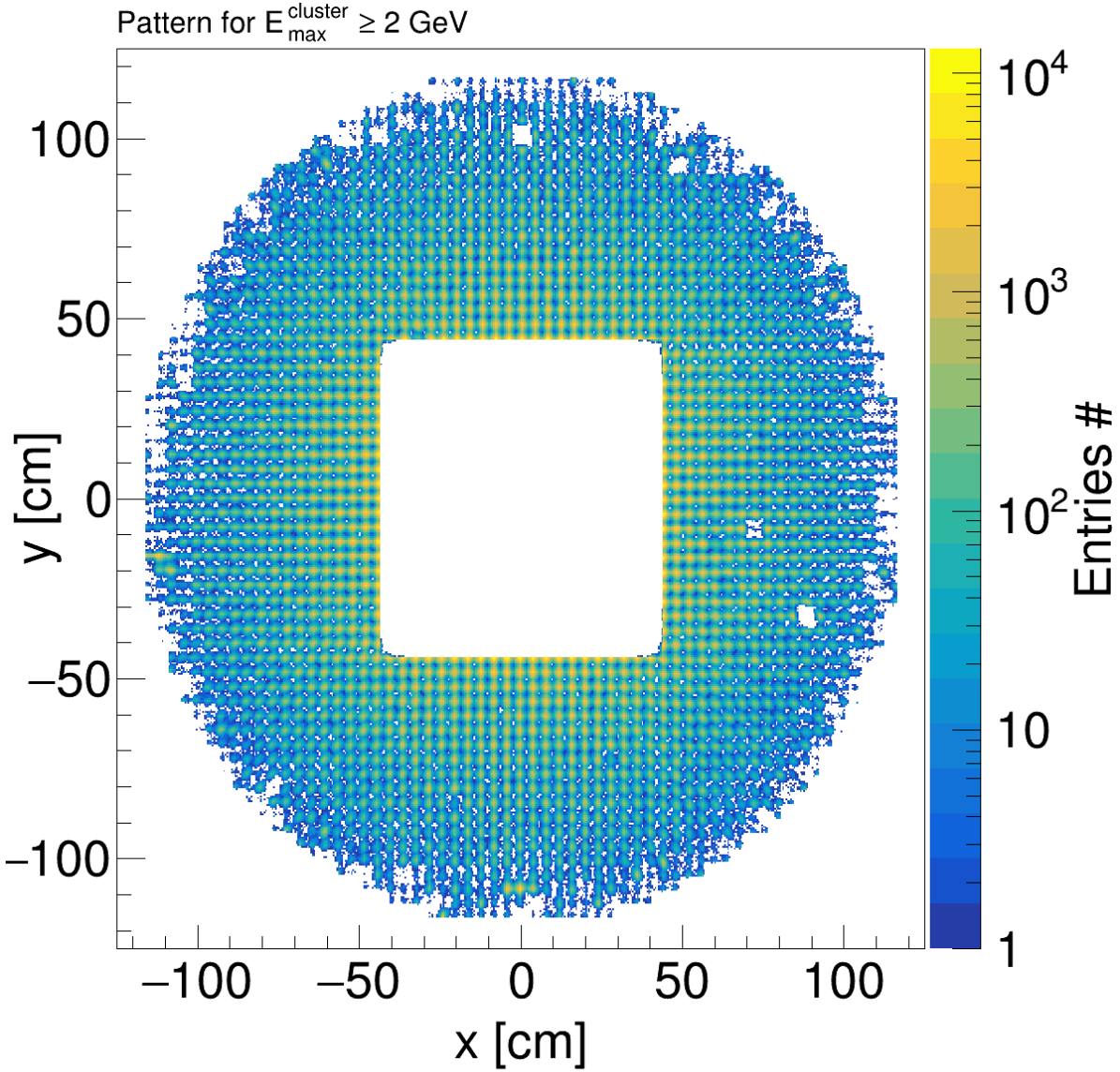
FCAL pattern



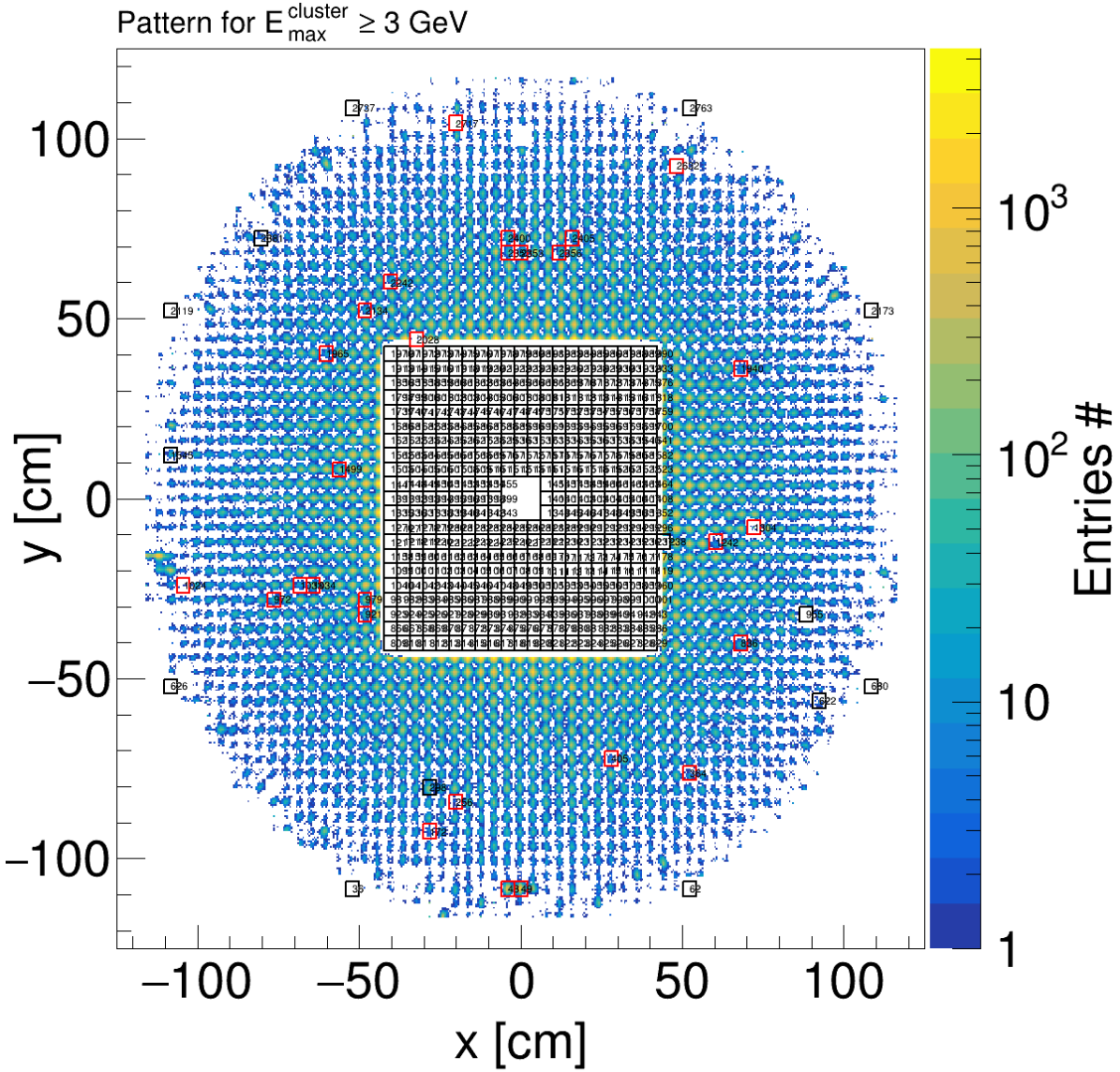
FCAL pattern



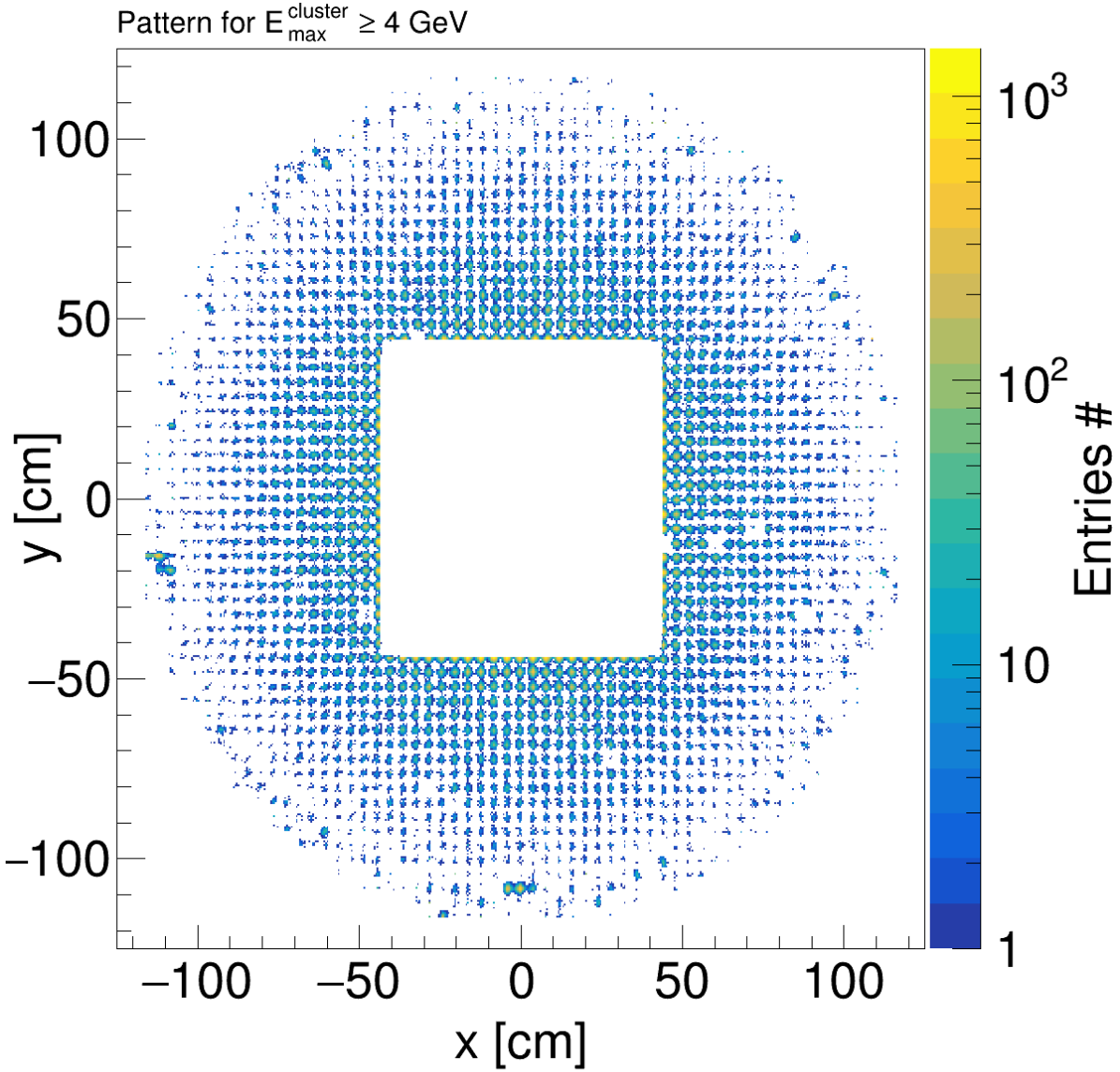
FCAL pattern



FCAL pattern



FCAL pattern



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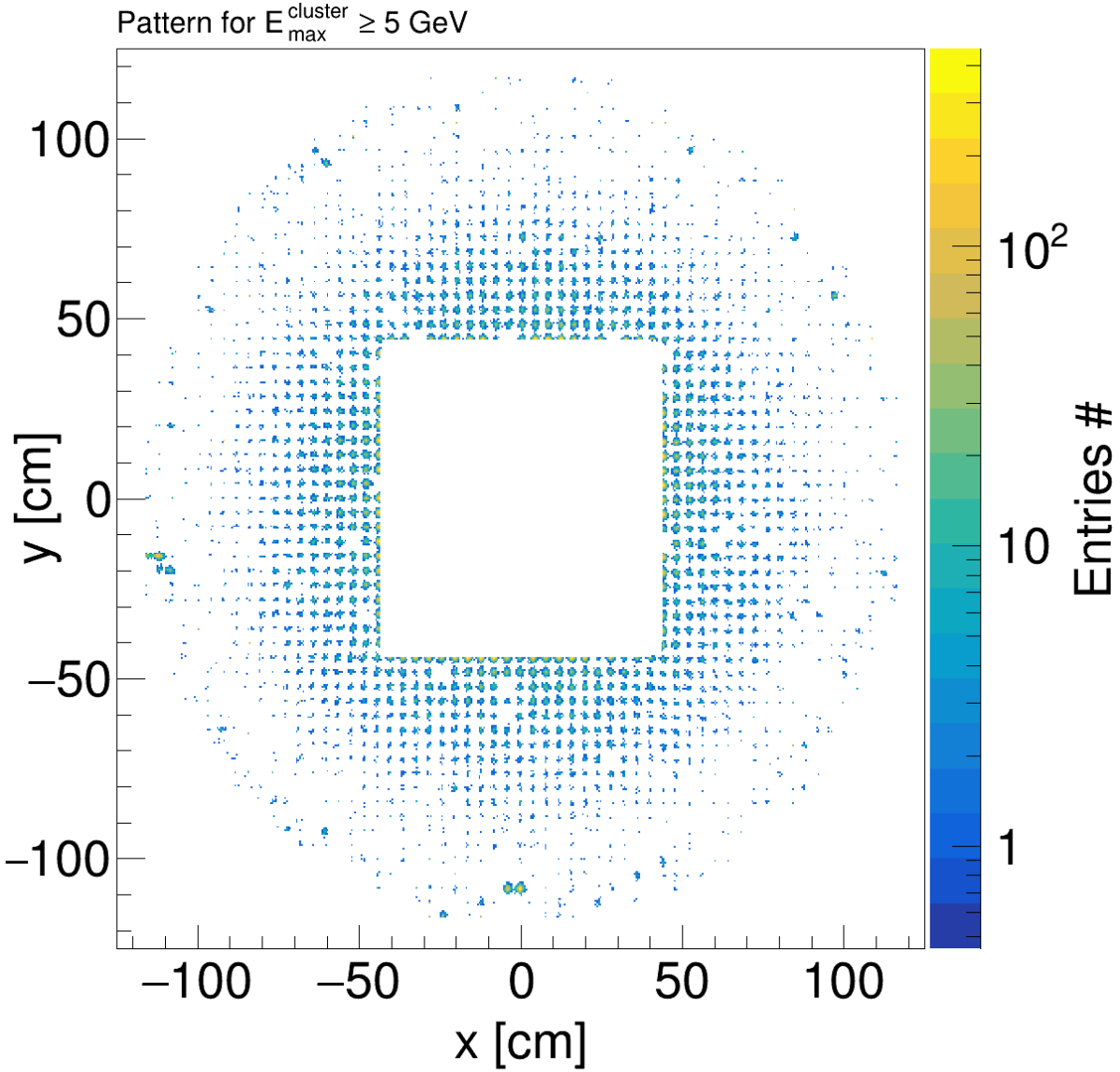
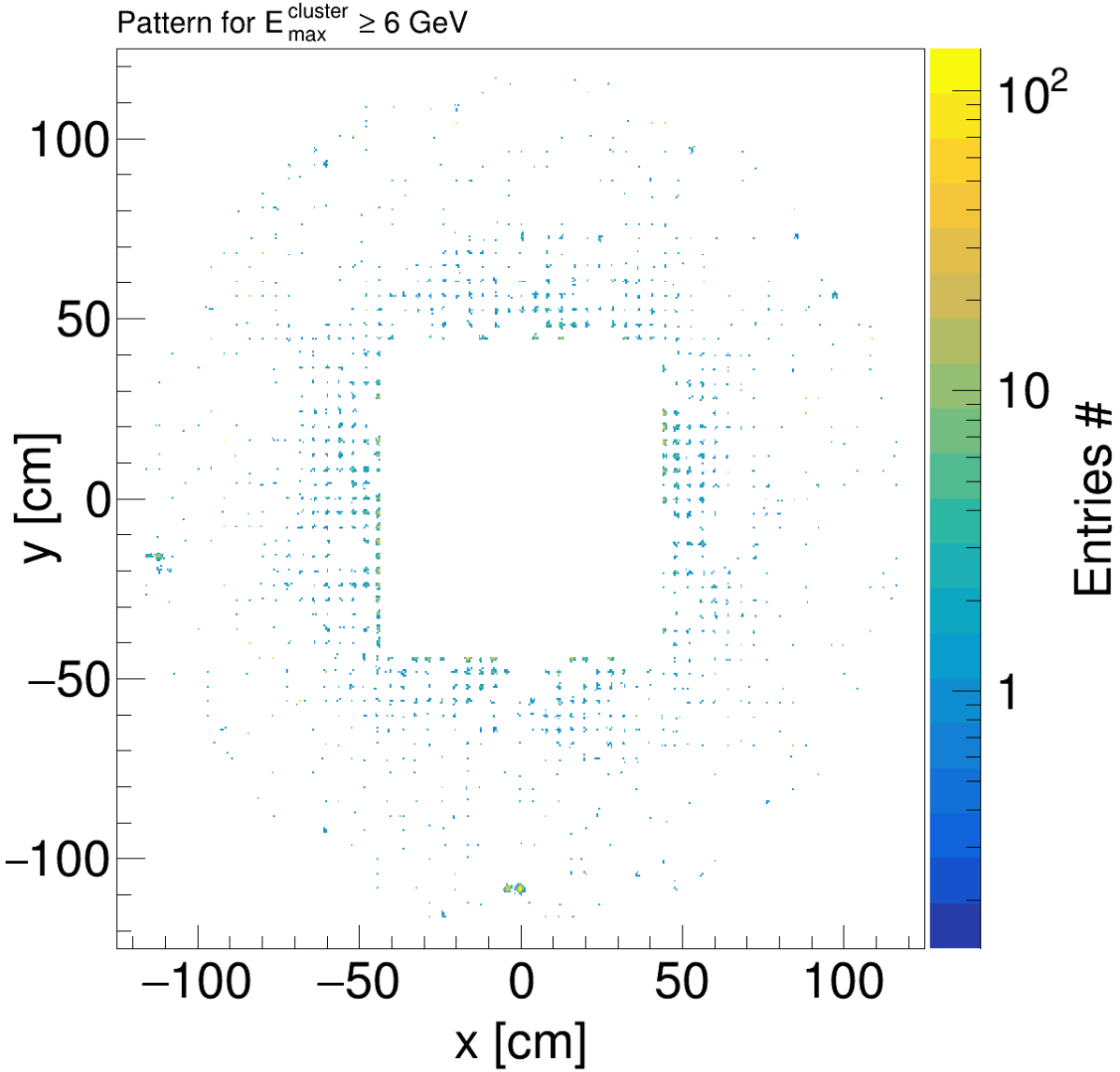


FCAL pattern



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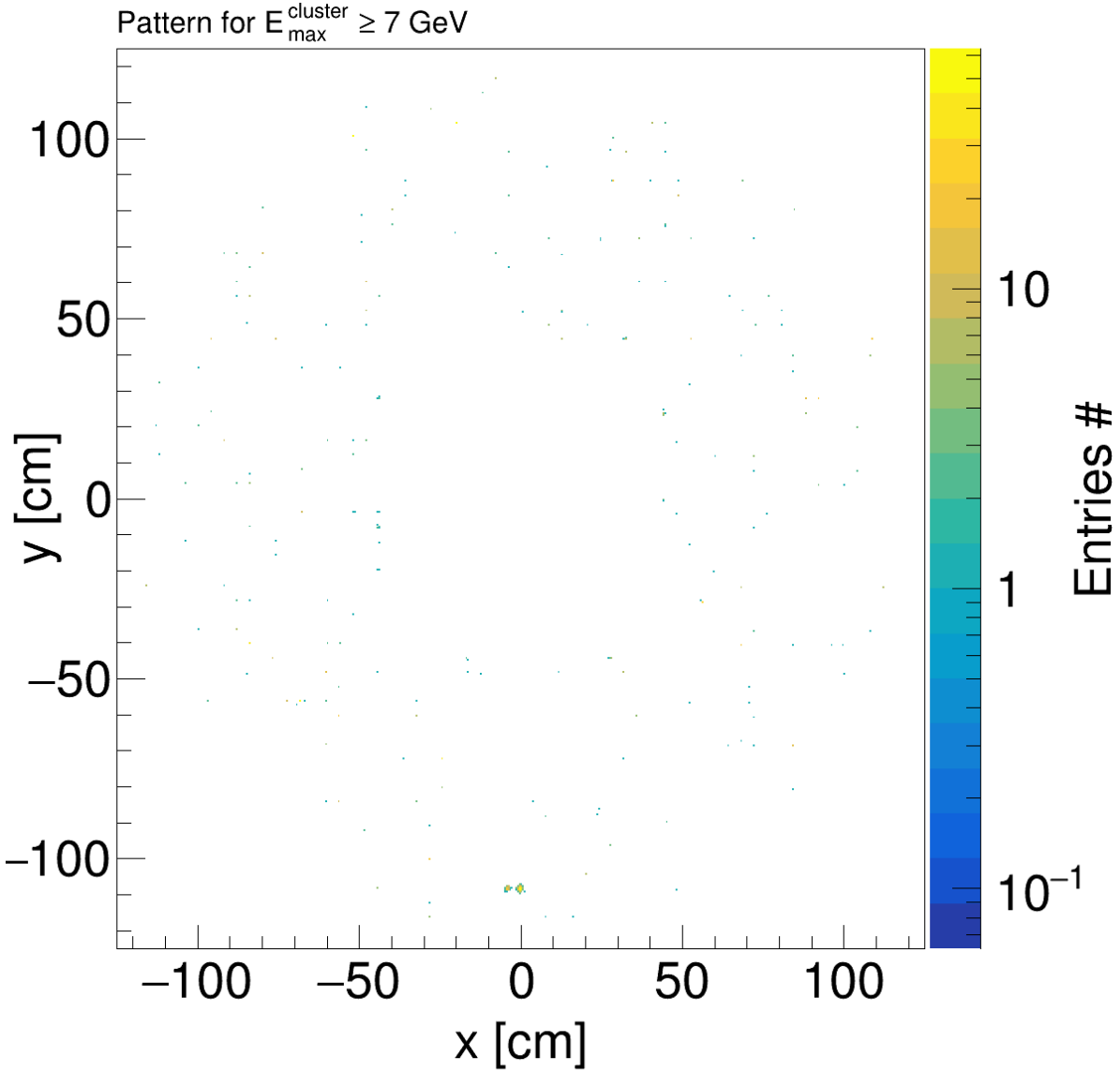
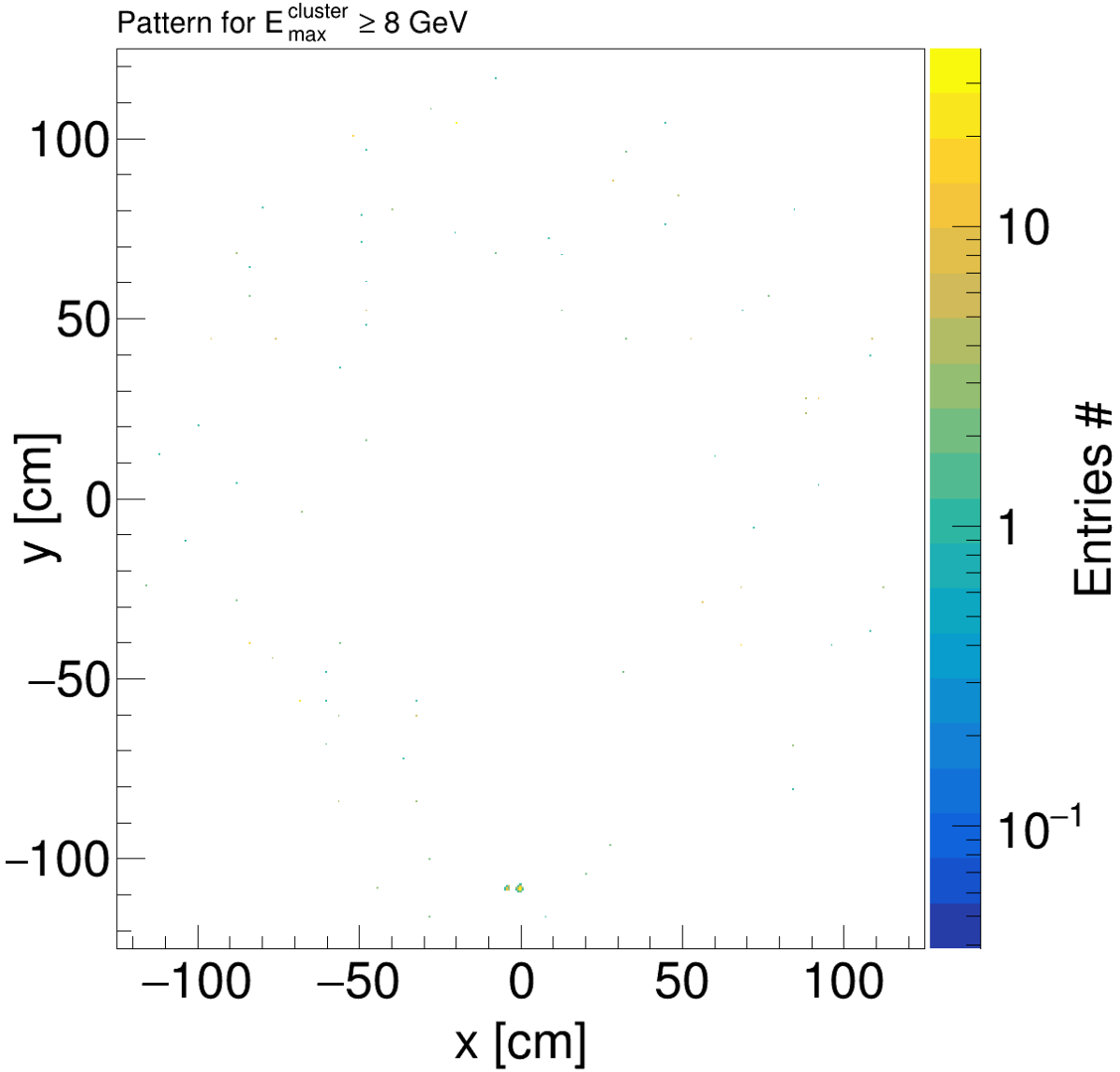


FCAL pattern



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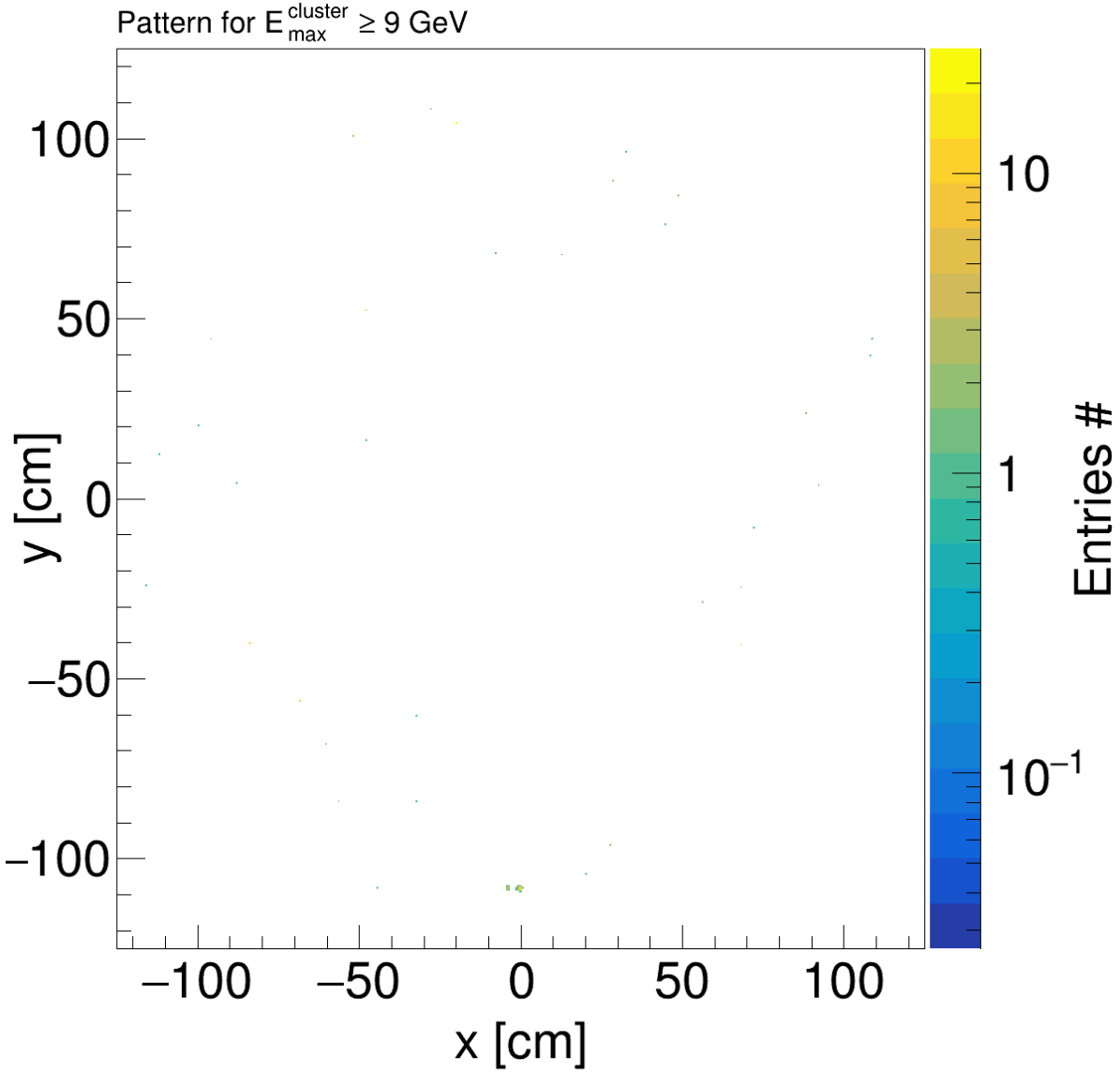

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