FCAL energy calibration QC

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Thomas Jefferson National Accelerator Facility

for the GlueX Collaboration

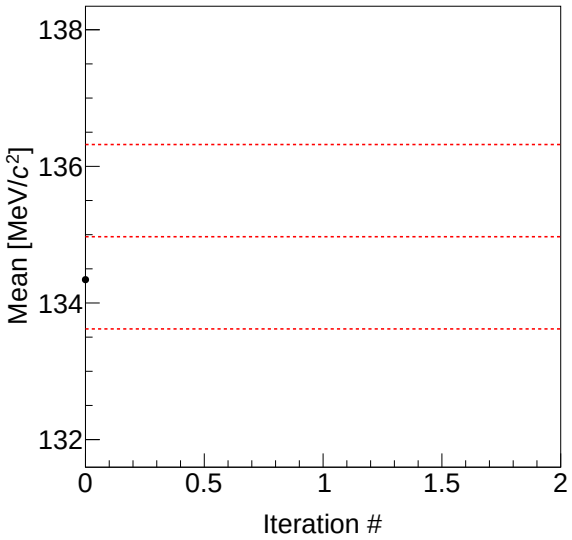
May 31, 2023
2022-08-period-32-iteration-1-method-2

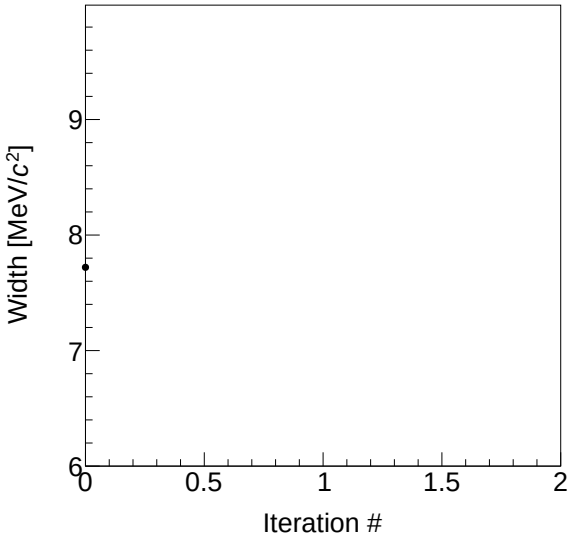
Table of contents

1. Overall QC
2. QC per rings

Overall QC vs iteration

- π^0





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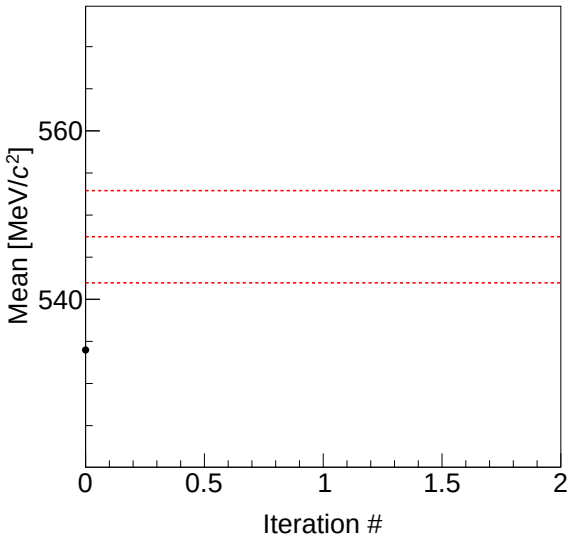
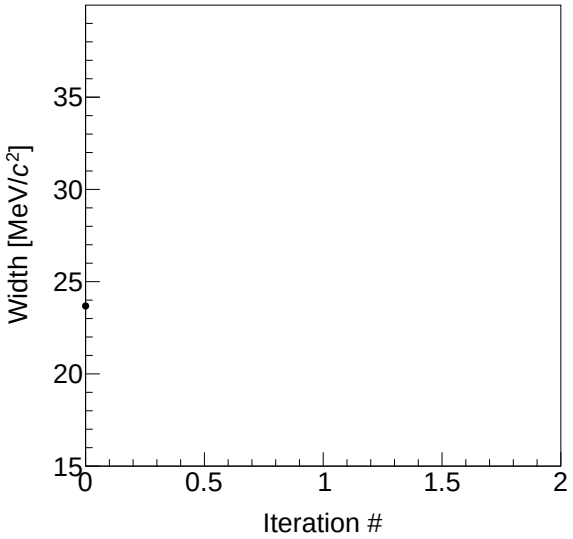
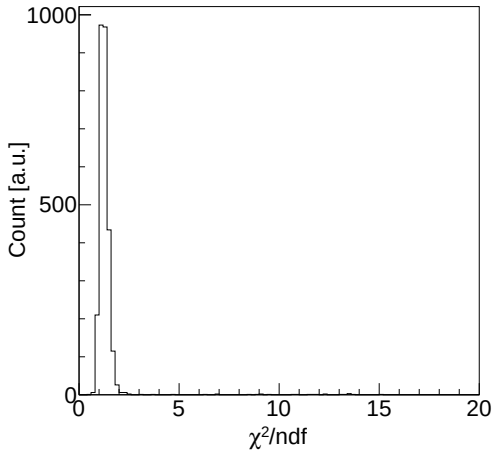


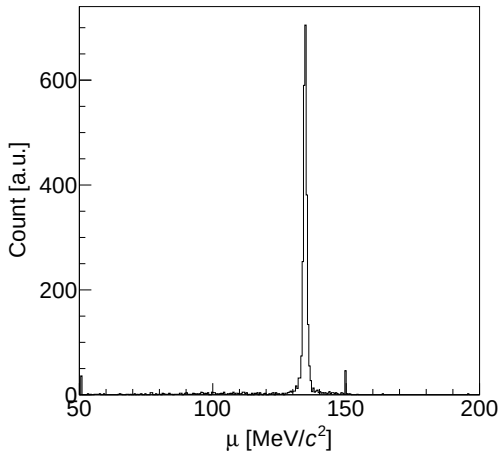


Overall QC, summary distributions

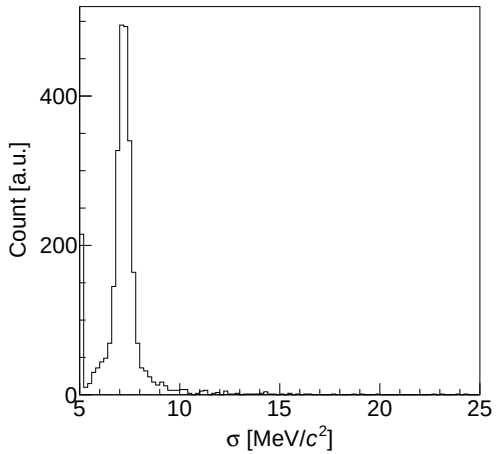
- χ^2 distribution



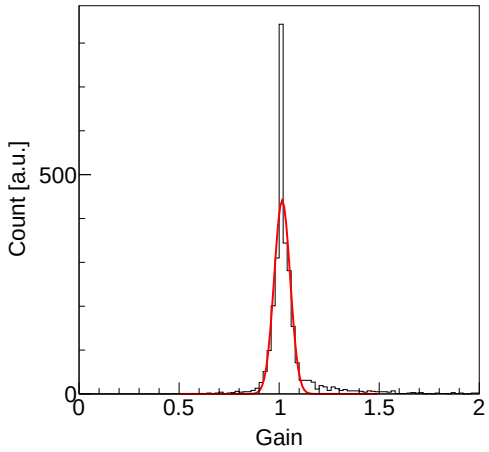
- Fitted peak distribution



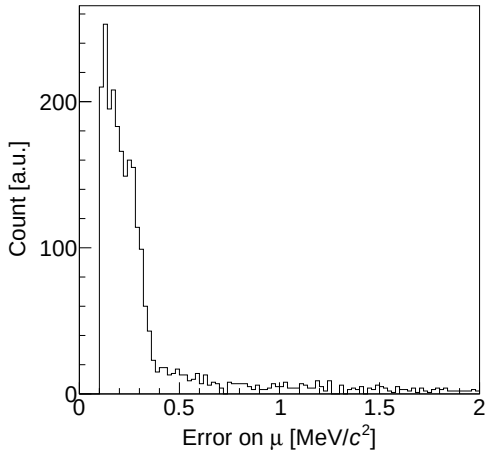
- Fitted width distribution



- Gain distribution



- Fitted peak error distribution



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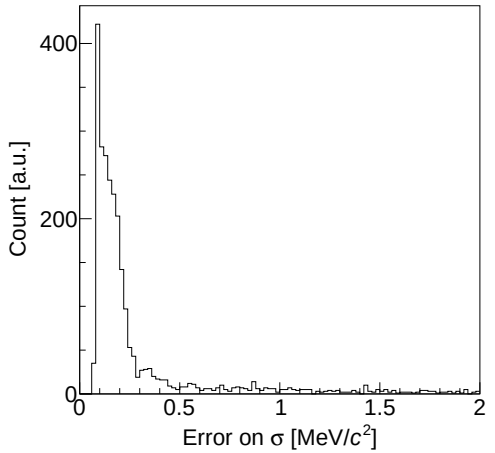
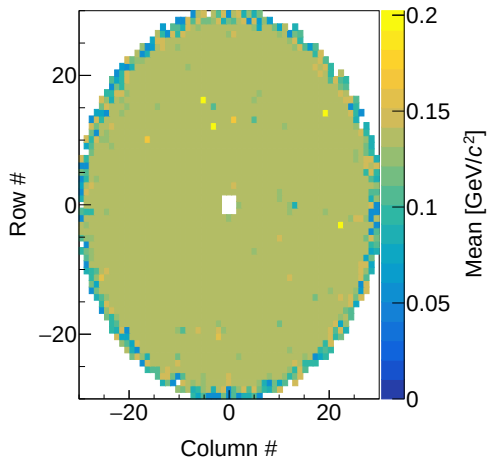
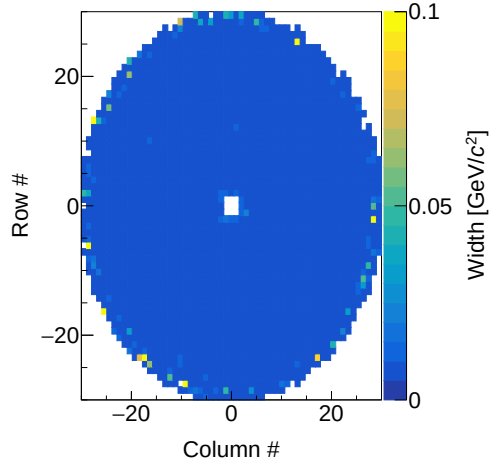


Overall QC, summary maps

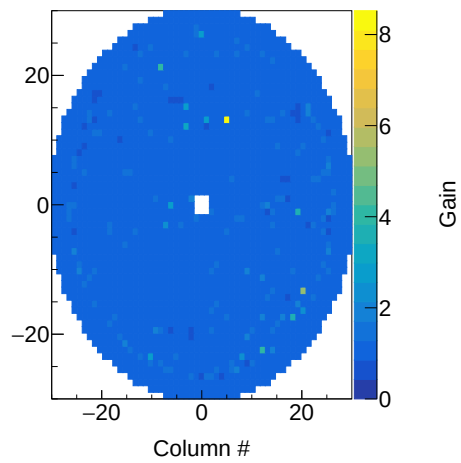
- Fitted peak map



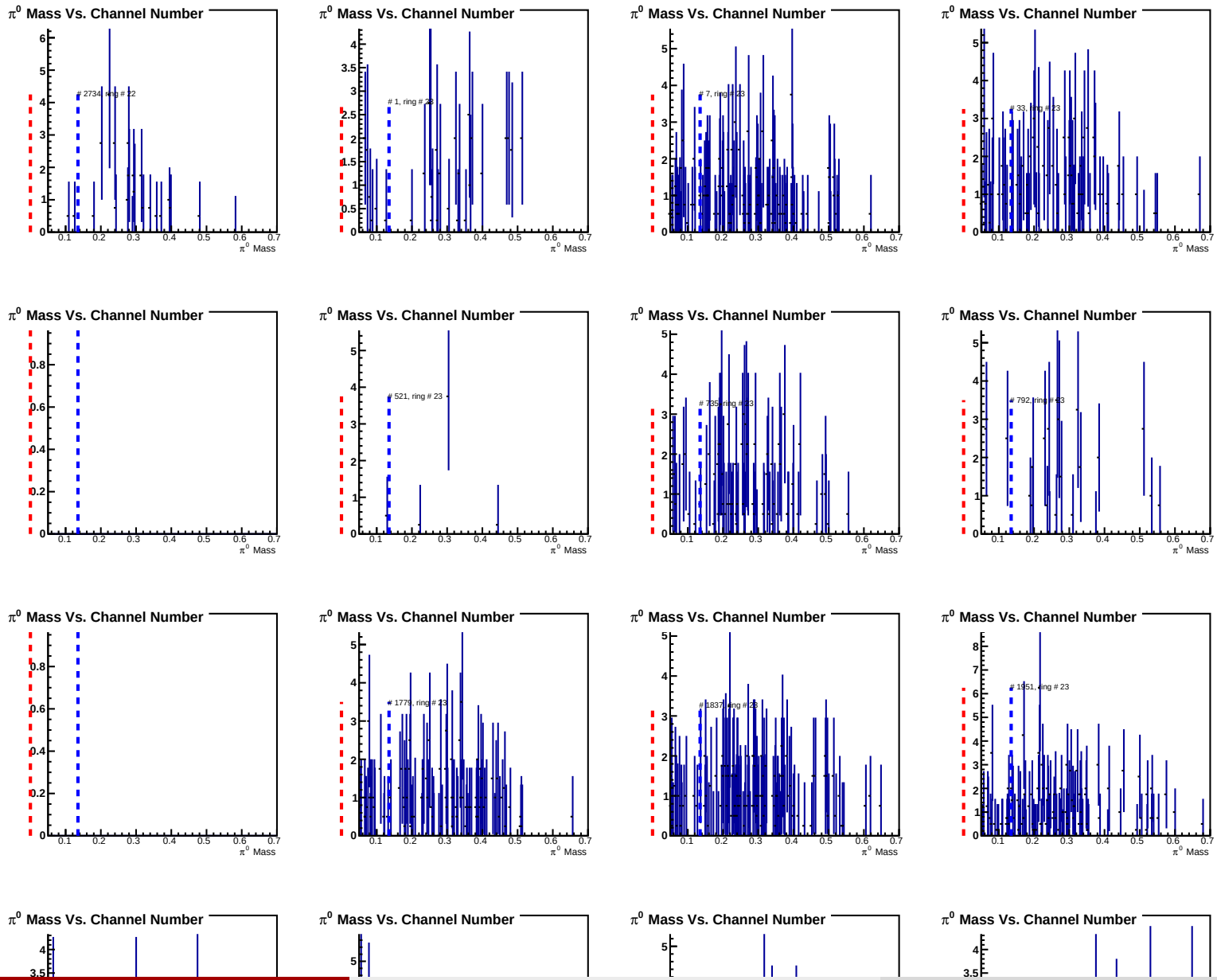
- Fitted width map



- Gain map



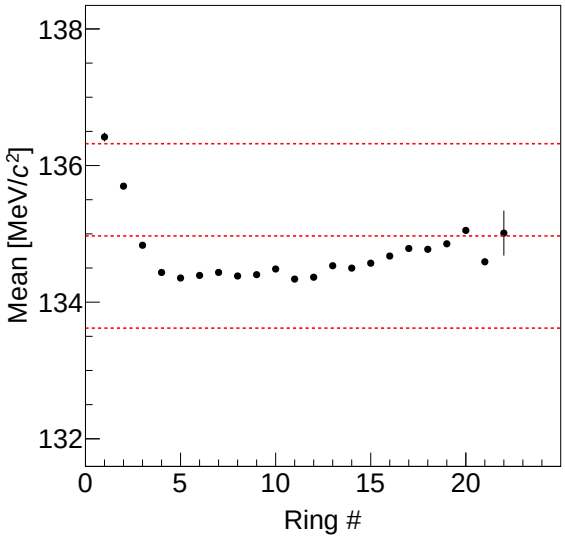
Overall QC, bad channels

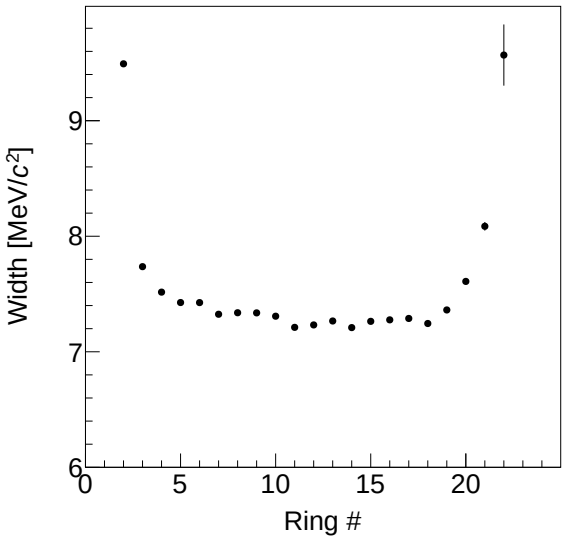


QC per rings

If radius divided by 5 cm, there is 24 rings

- π^0





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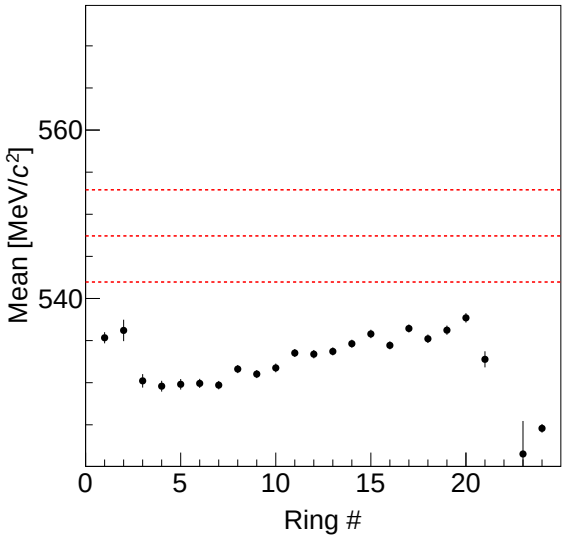
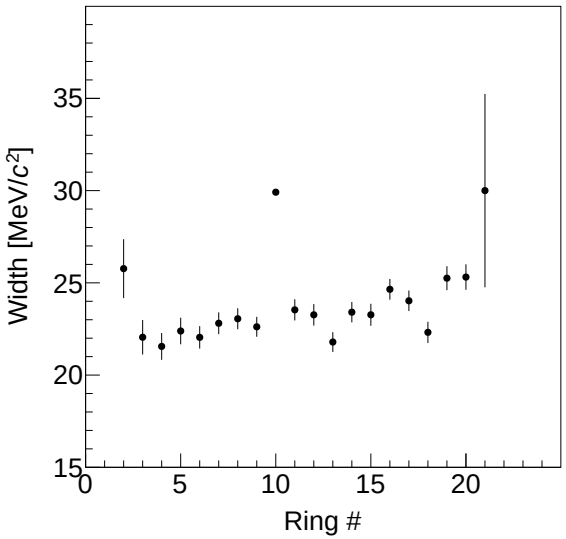
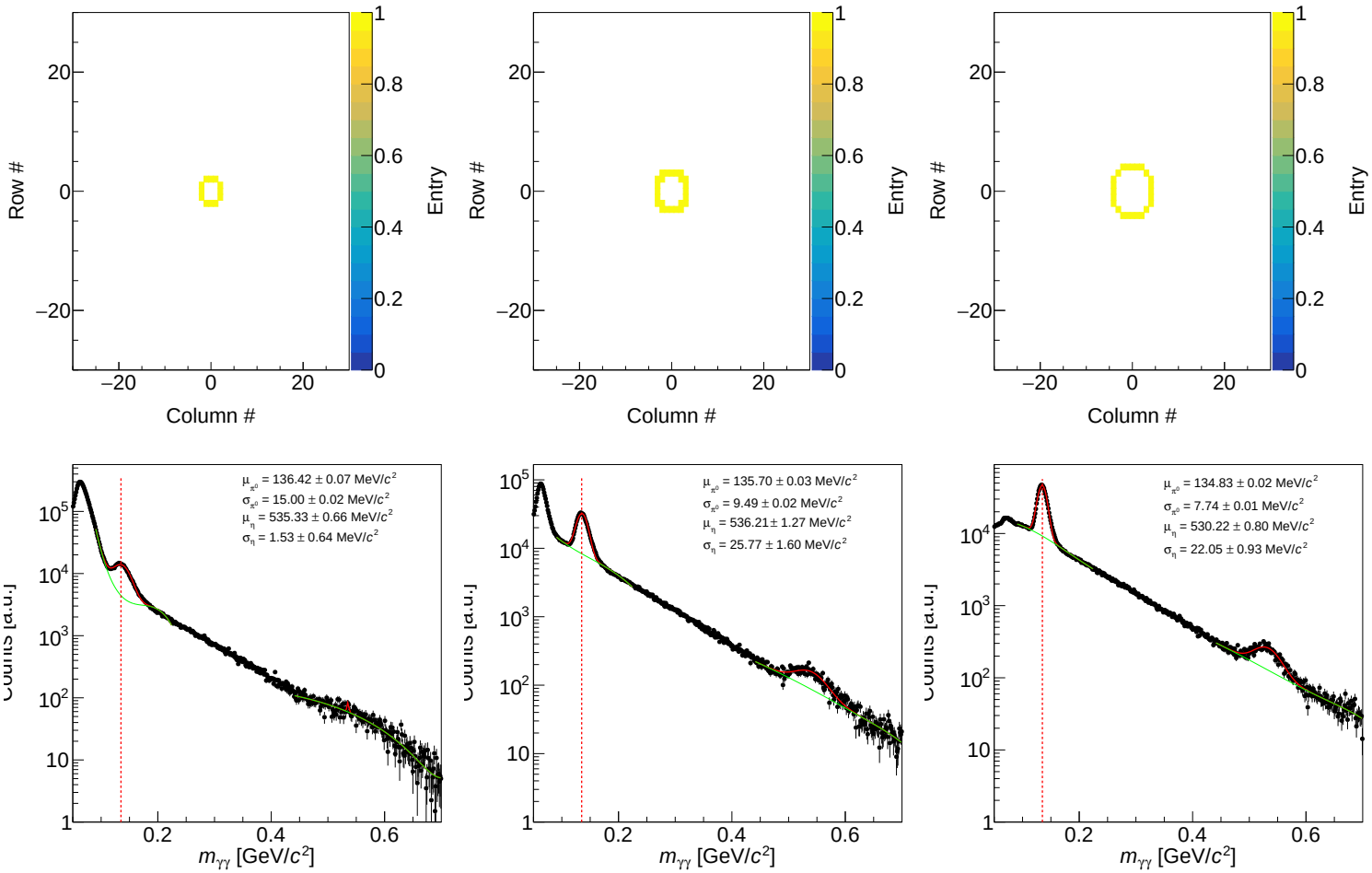




QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 1
- Ring 2
- Ring 3



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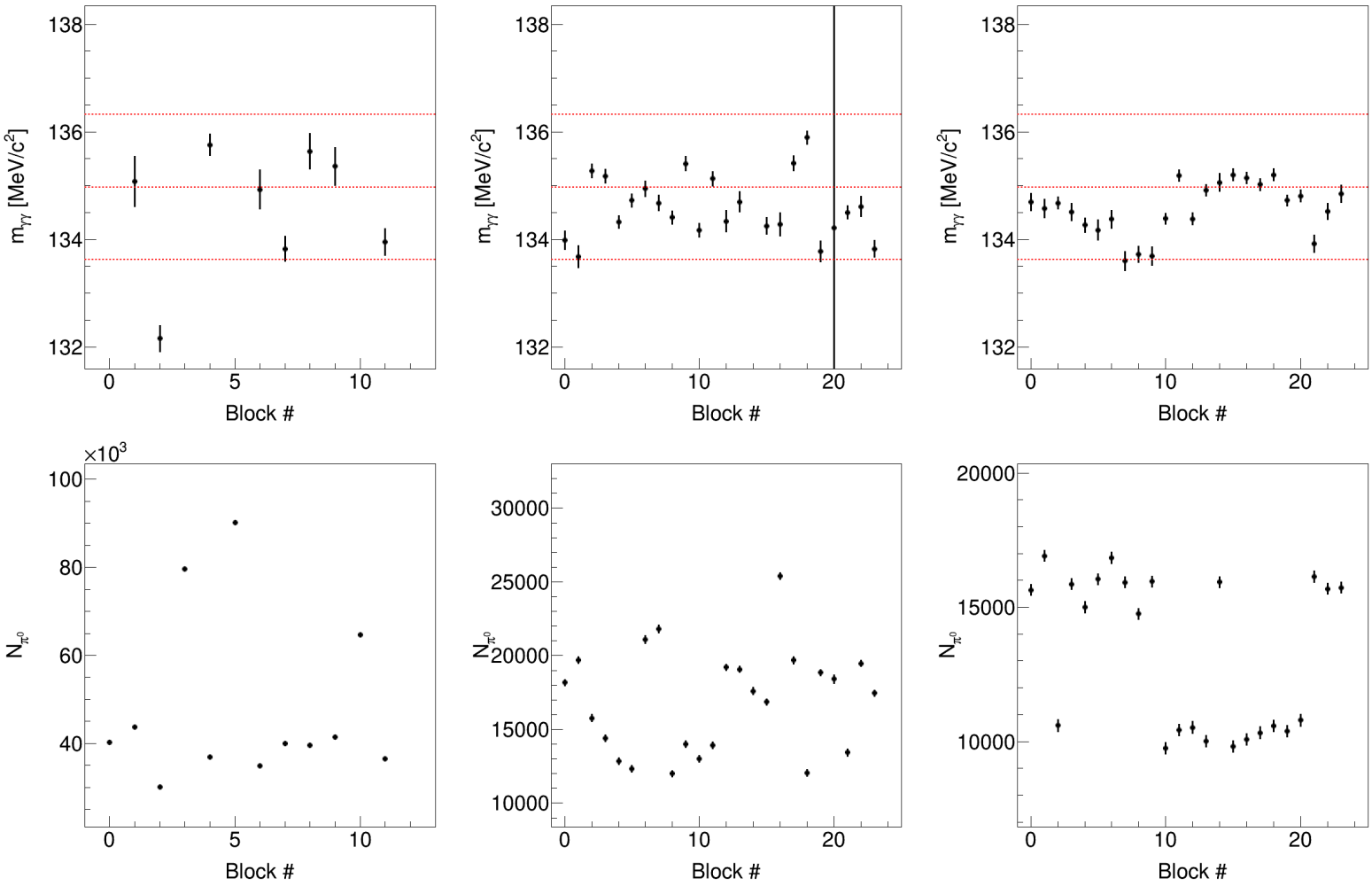
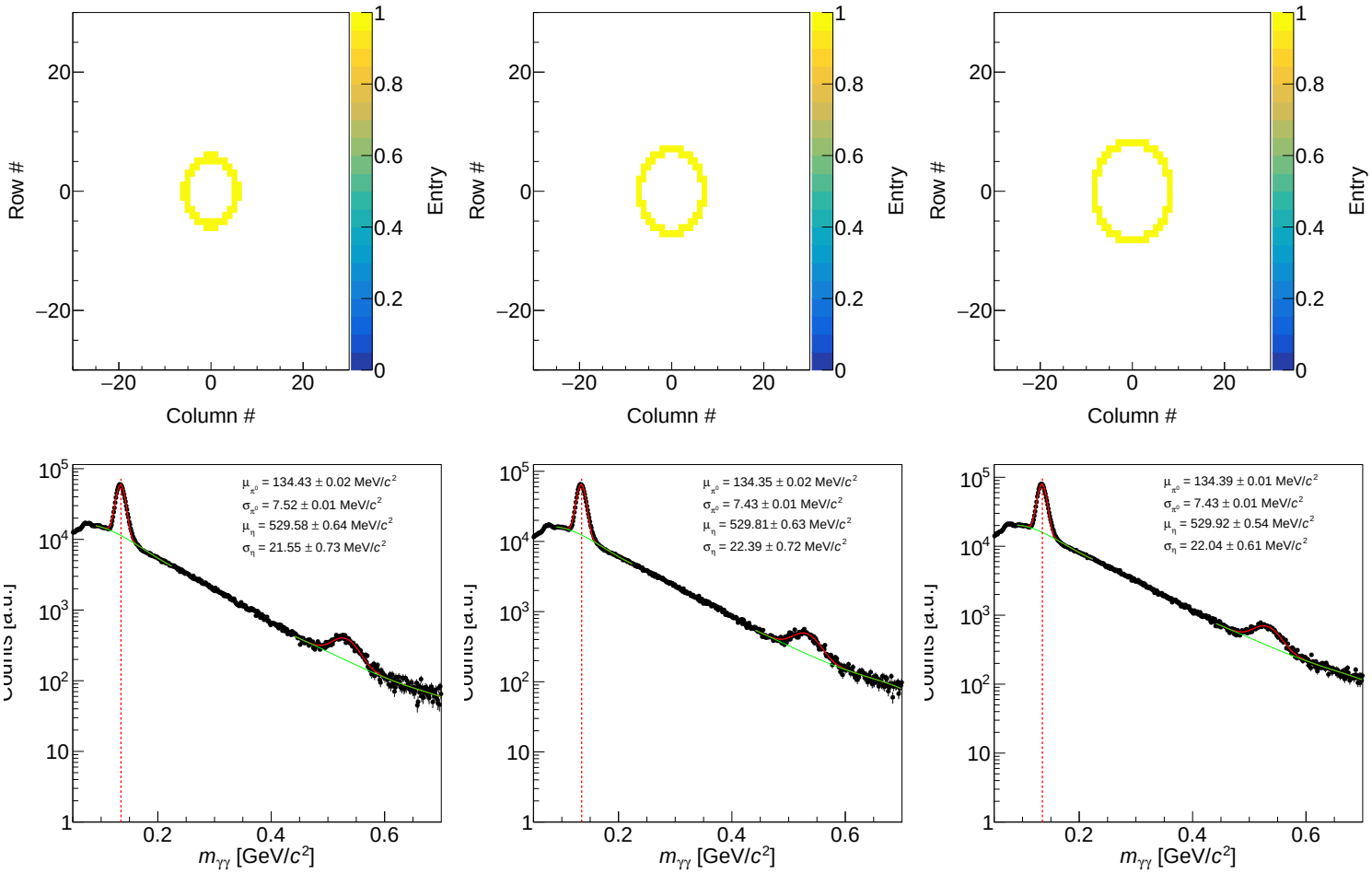


QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 4
- Ring 5
- Ring 6



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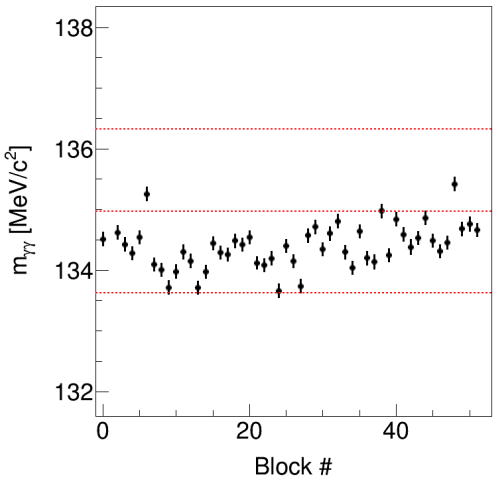
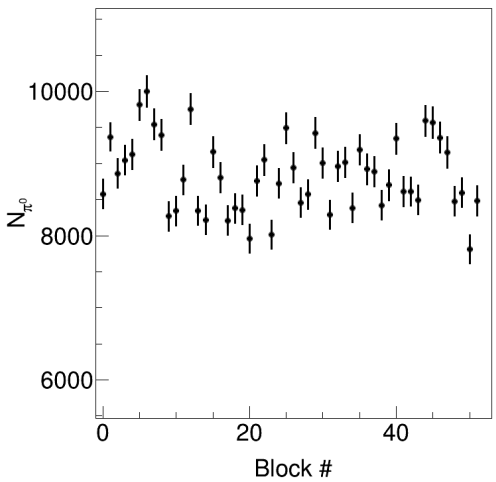
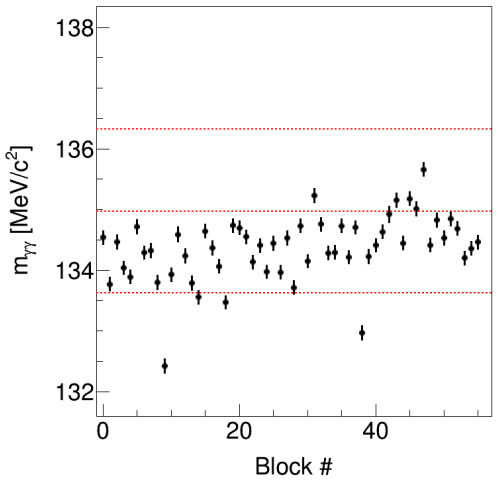
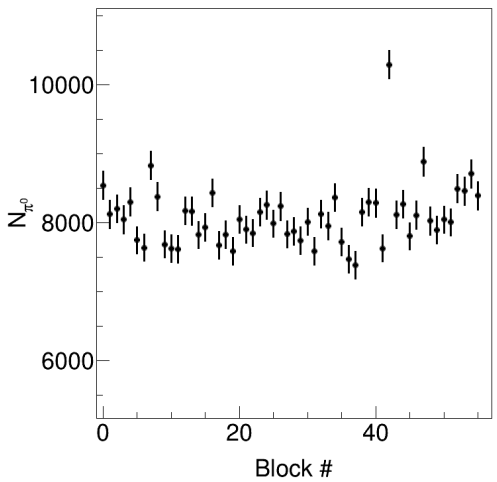
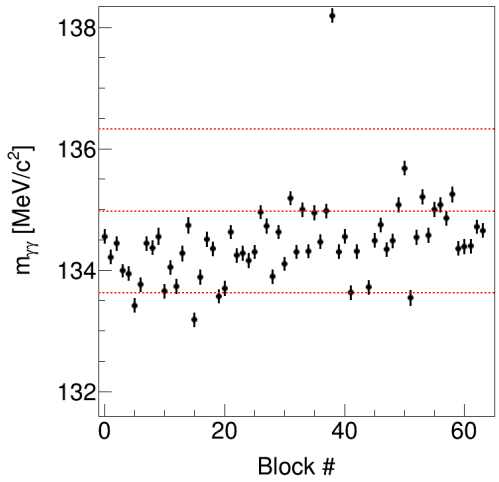
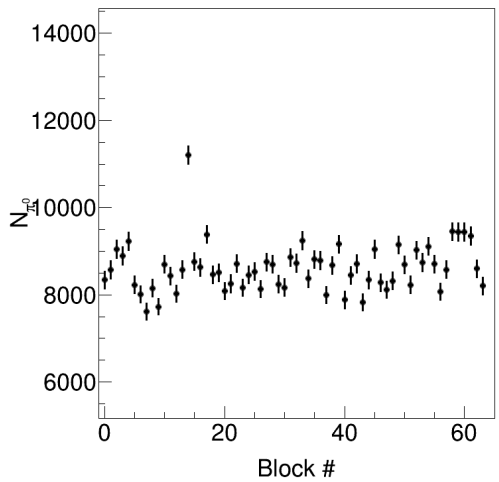








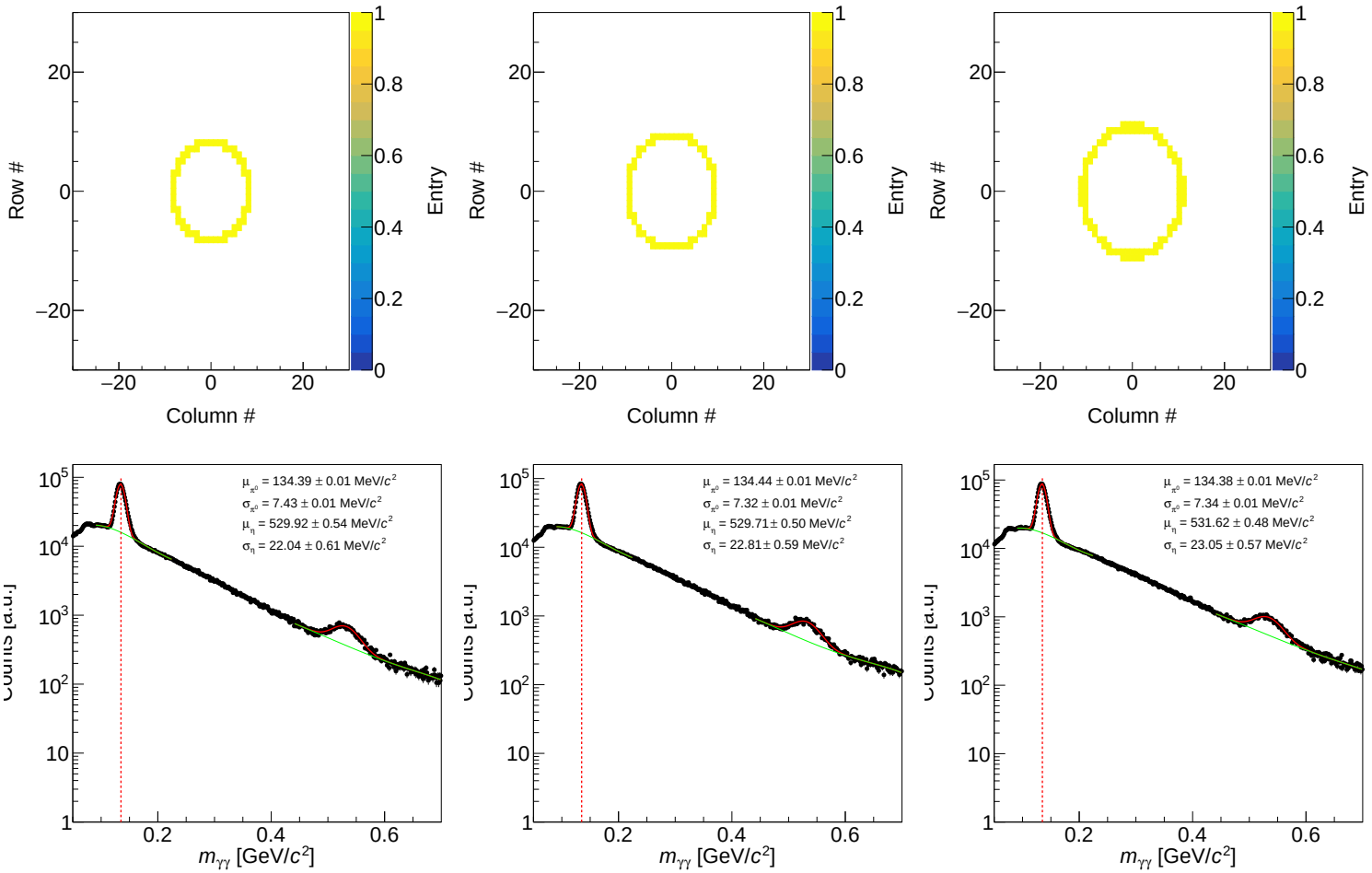




QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 7
- Ring 8
- Ring 9



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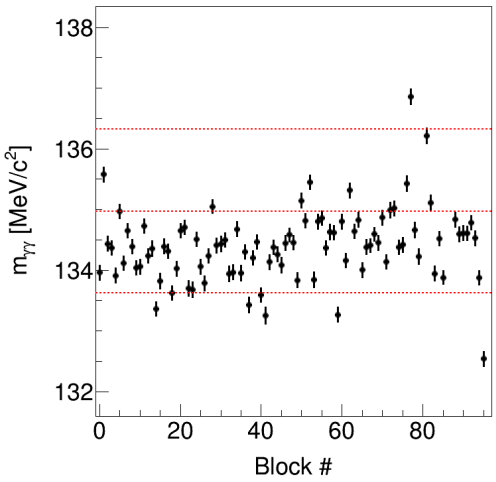
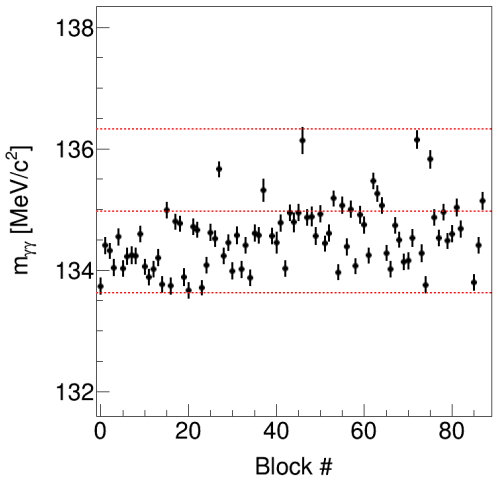
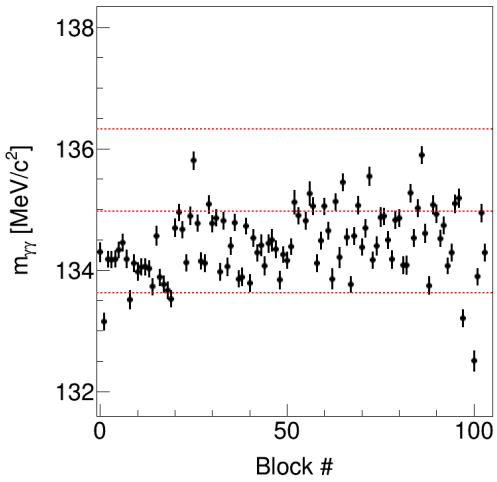
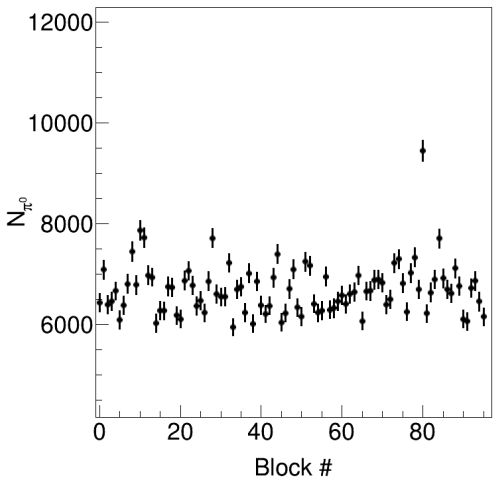
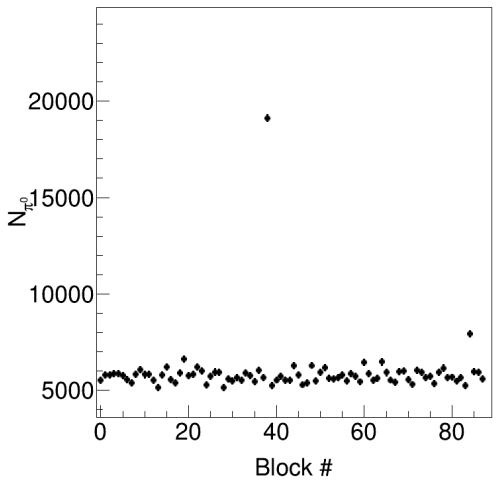
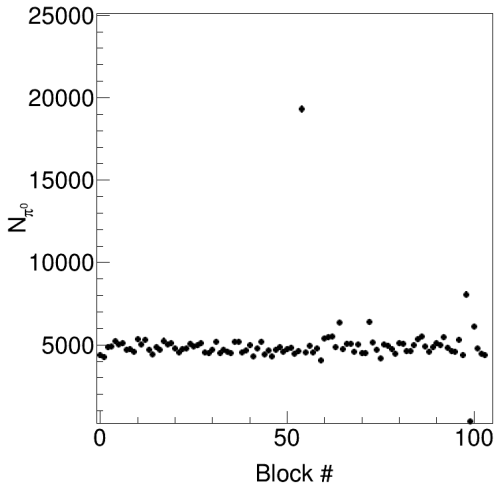








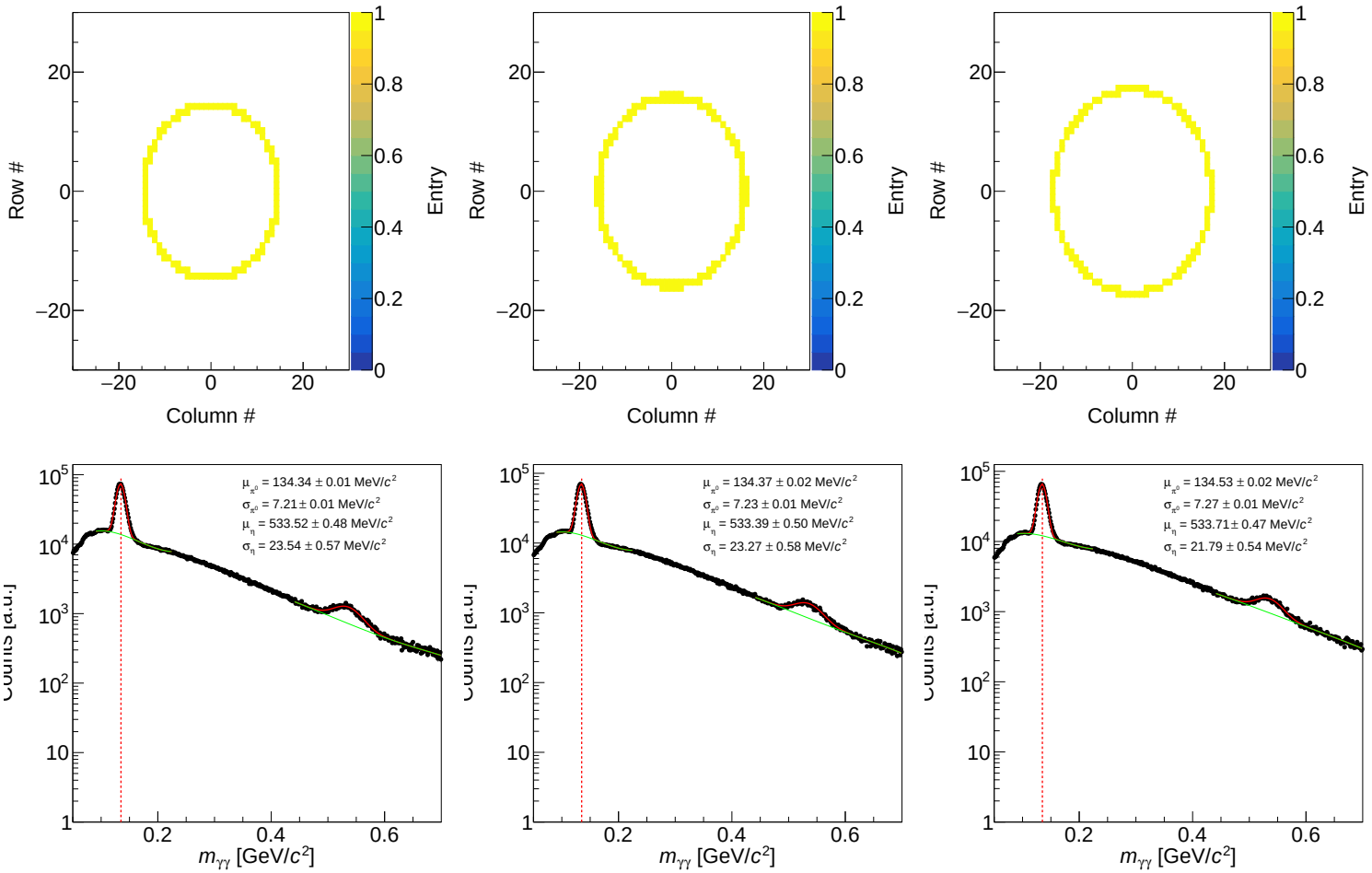




QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 11
- Ring 12
- Ring 13



QC per rings

If radius divided by 5 cm, there is 24 rings

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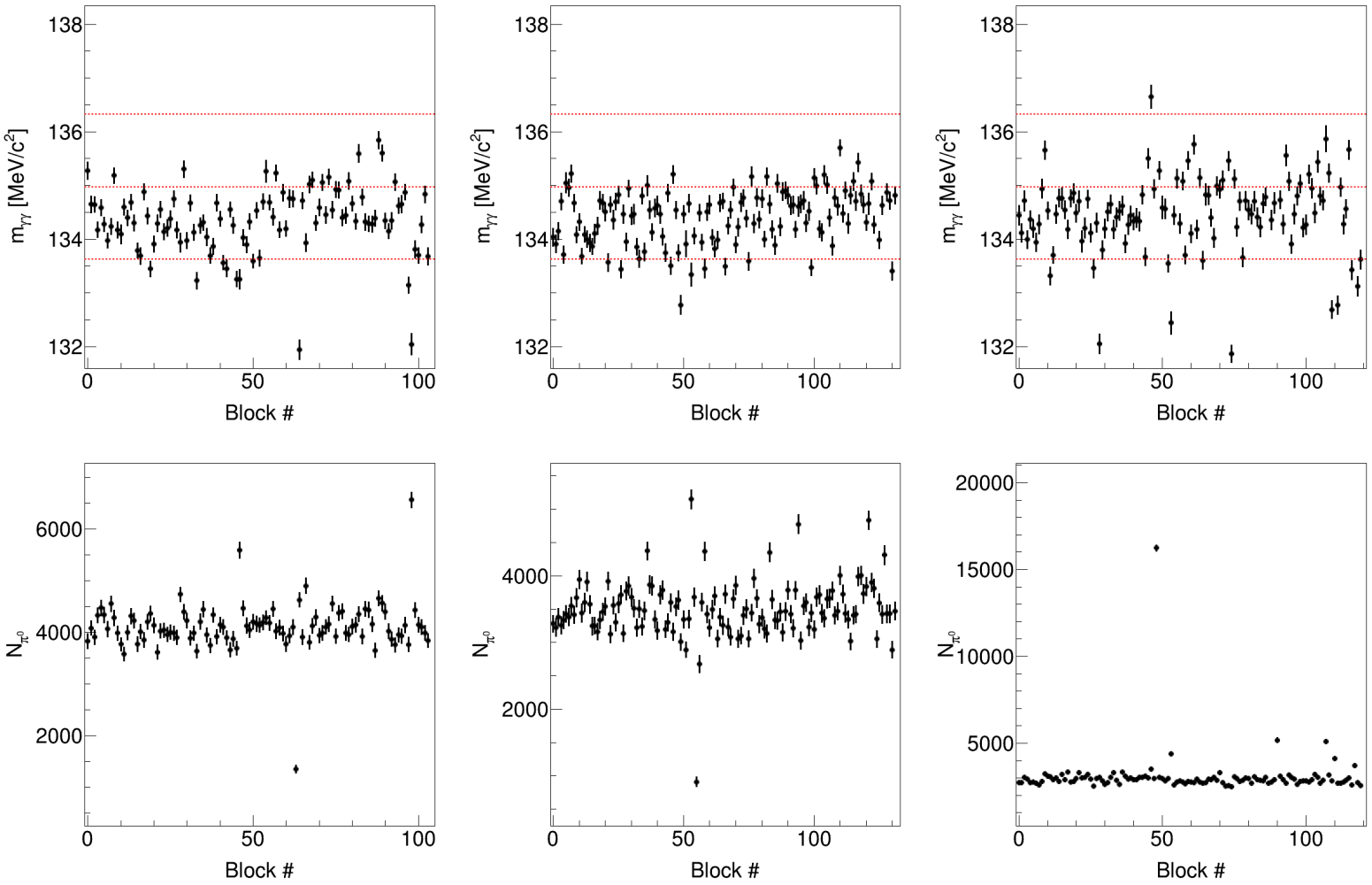
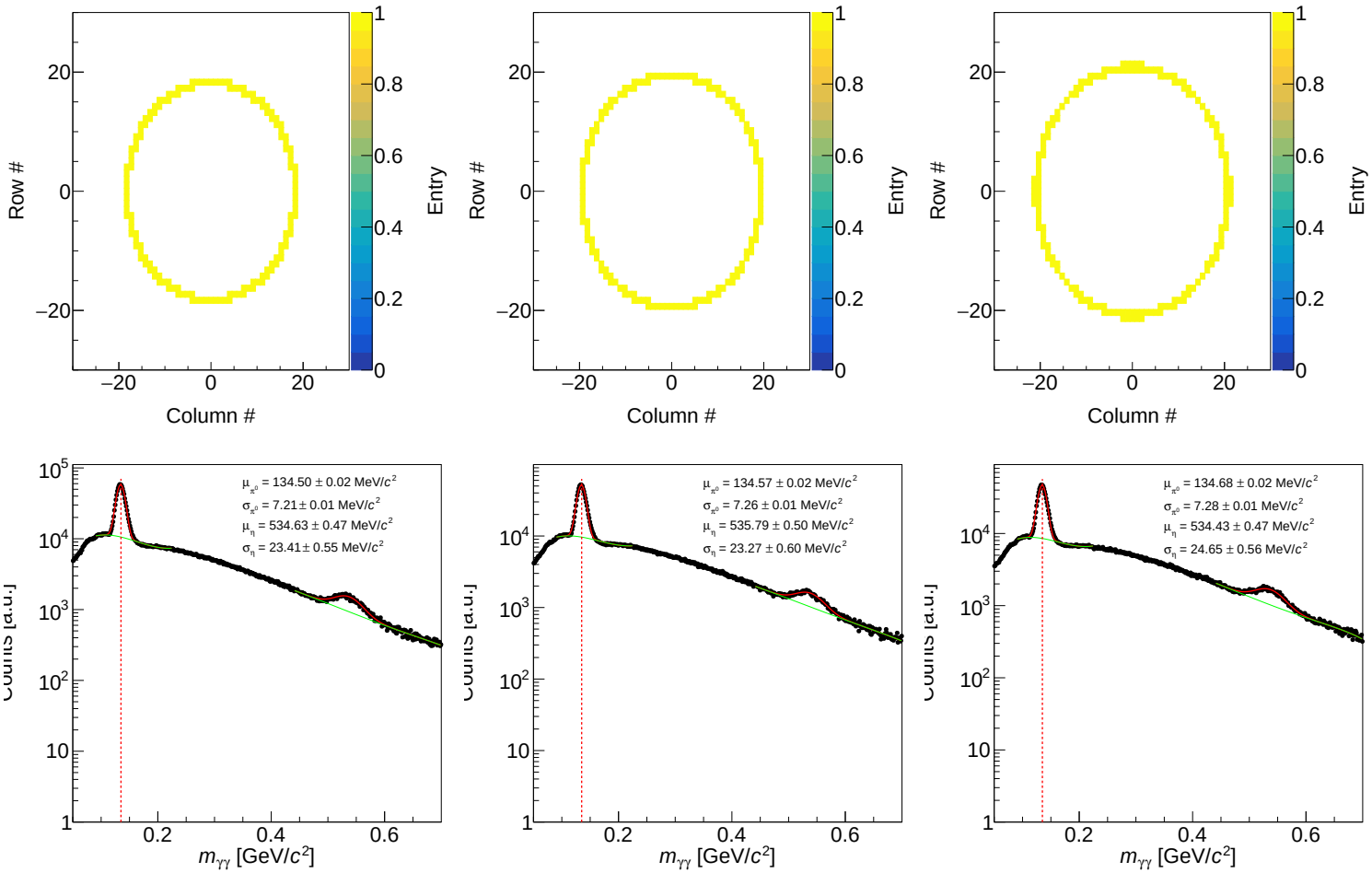
- Ring 13



QC per rings

If radius divided by 5 cm, there is 24 rings

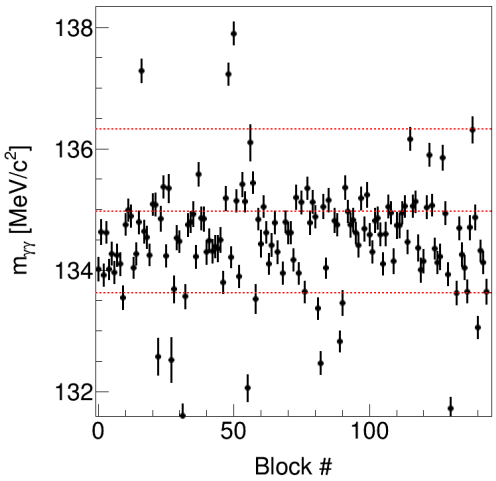
- Ring 14
- Ring 15
- Ring 16

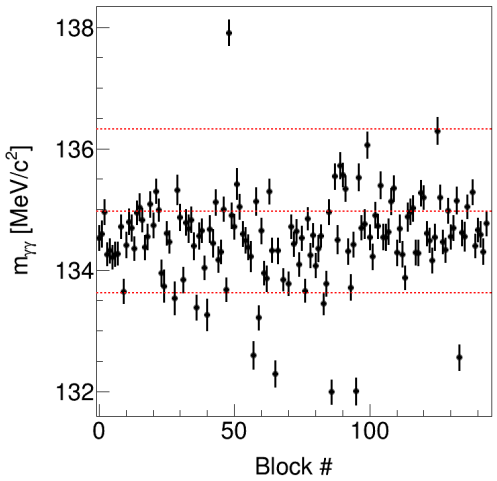


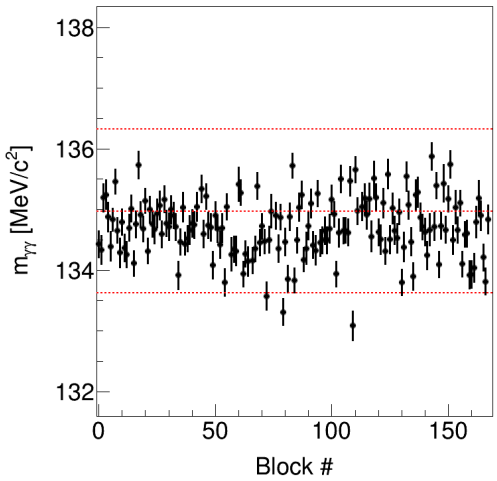
QC per rings

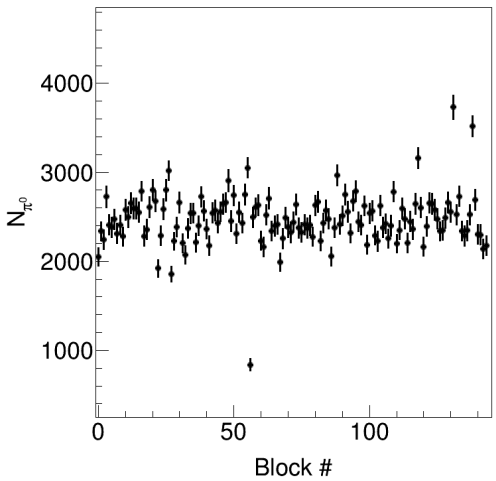
If radius divided by 5 cm, there is 24 rings

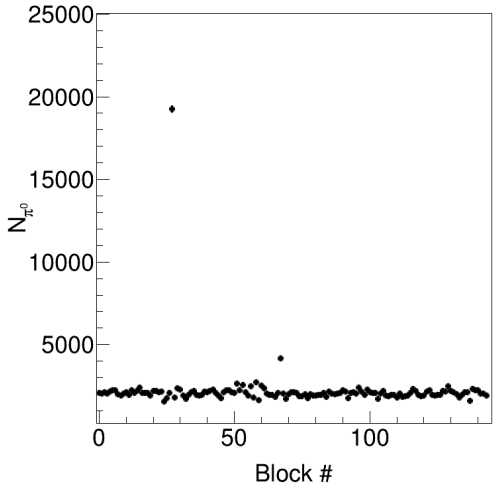
- Ring 14
- Ring 15
- Ring 16

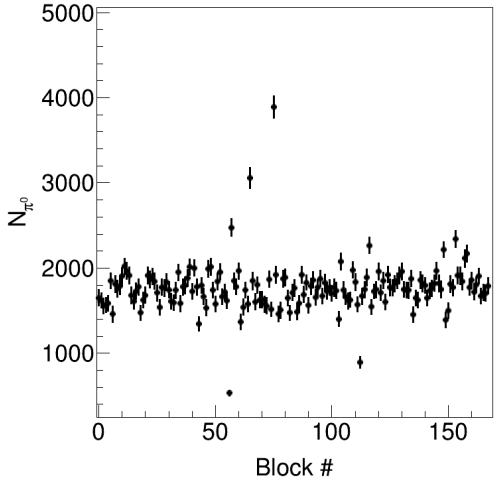








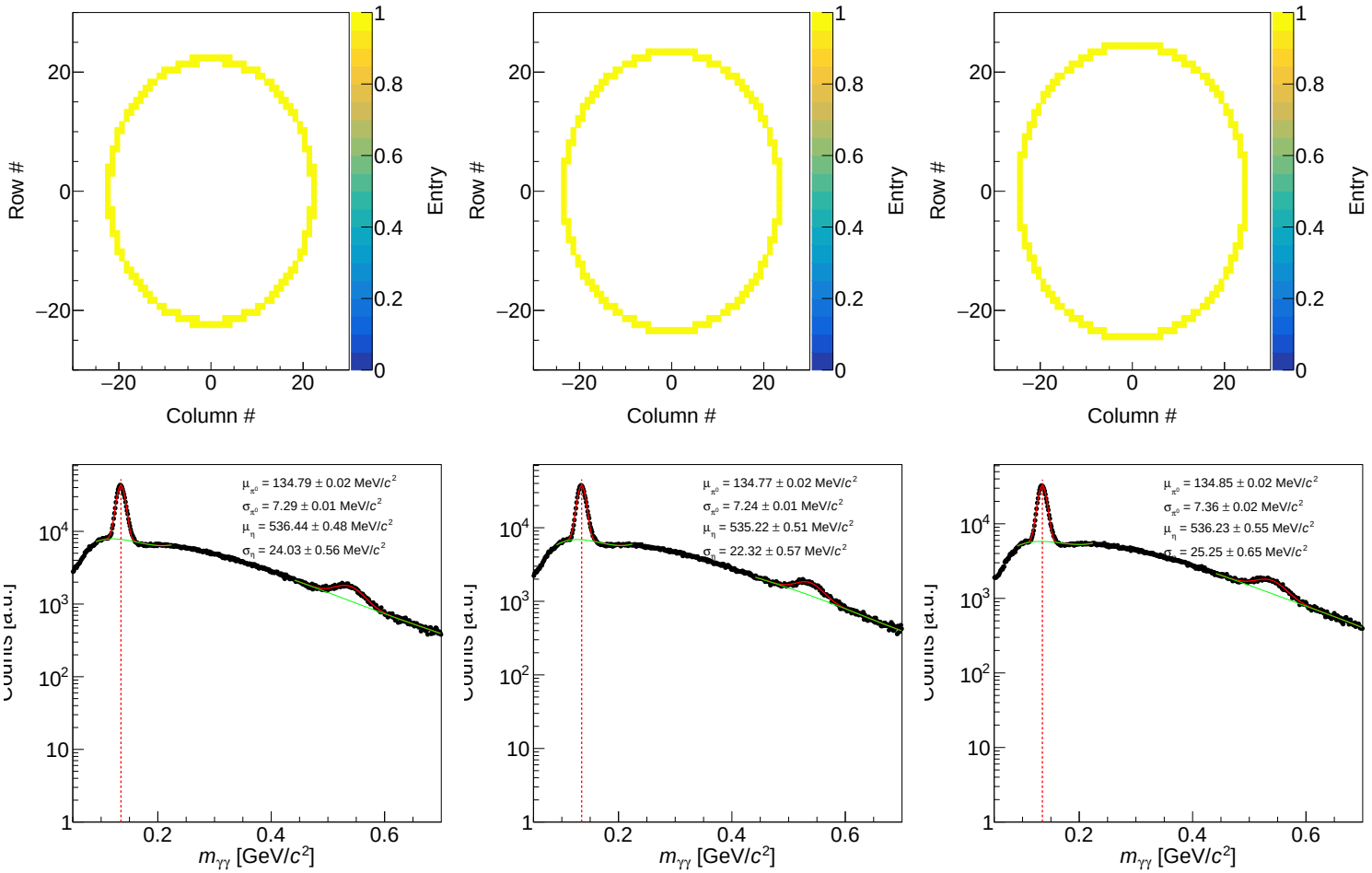




QC per rings

If radius divided by 5 cm, there is 24 rings

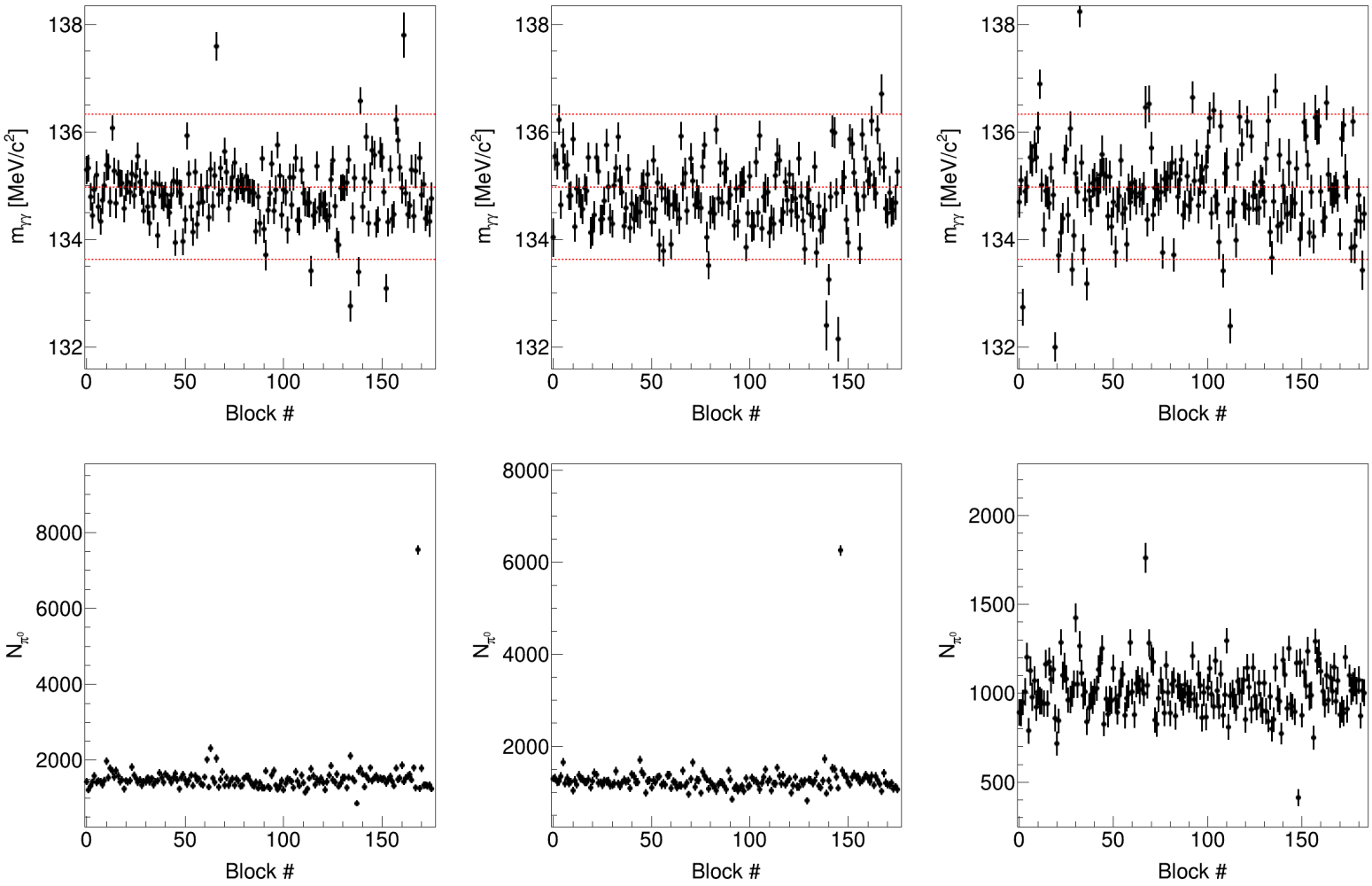
- Ring 17
- Ring 18
- Ring 19



QC per rings

If radius divided by 5 cm, there is 24 rings

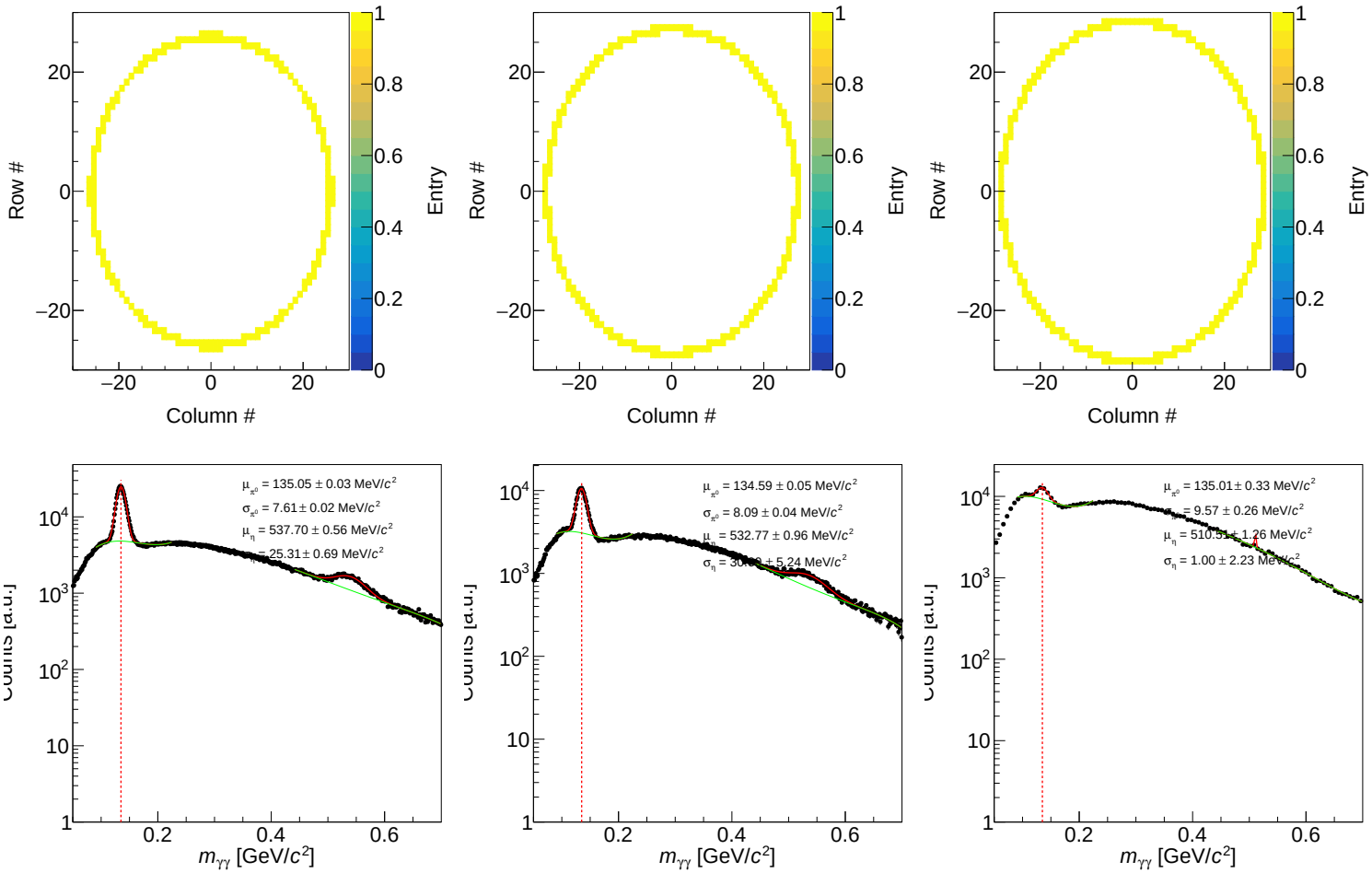
- Ring 17
- Ring 18
- Ring 19



QC per rings

If radius divided by 5 cm, there is 24 rings

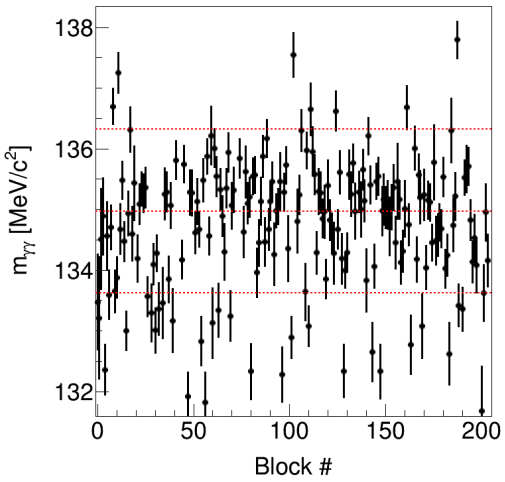
- Ring 20
- Ring 21
- Ring 22

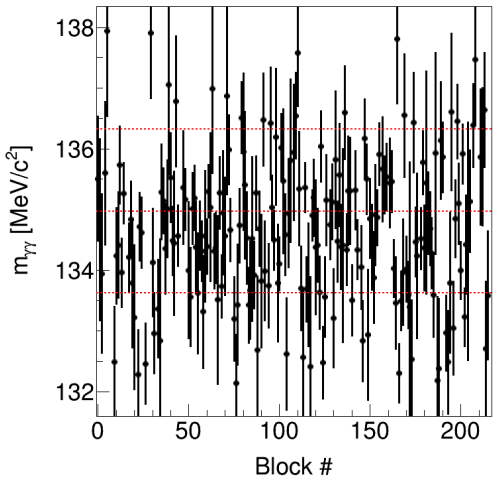


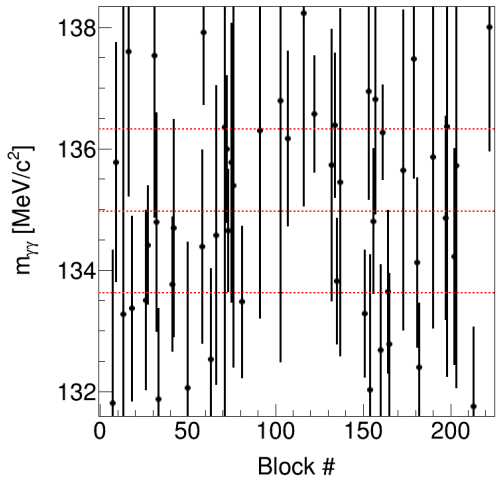
QC per rings

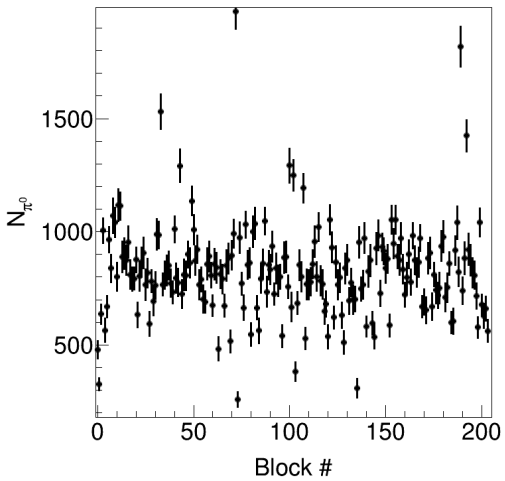
If radius divided by 5 cm, there is 24 rings

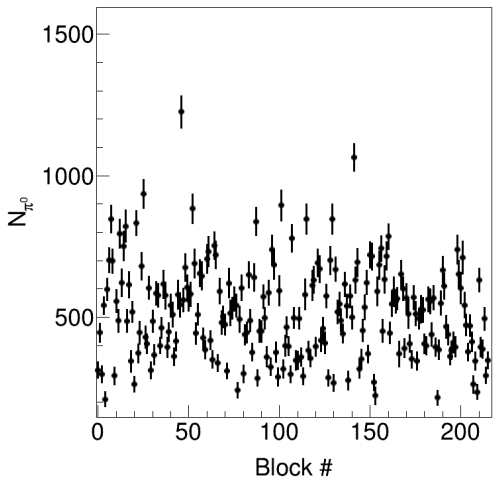
- Ring 20
- Ring 21
- Ring 22

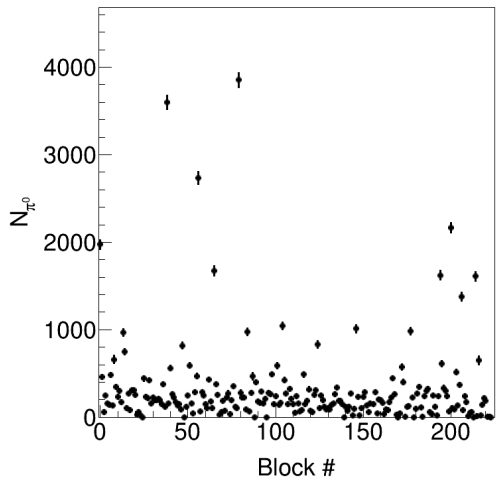








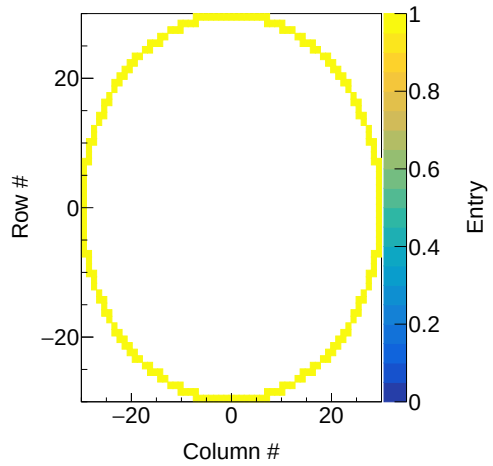


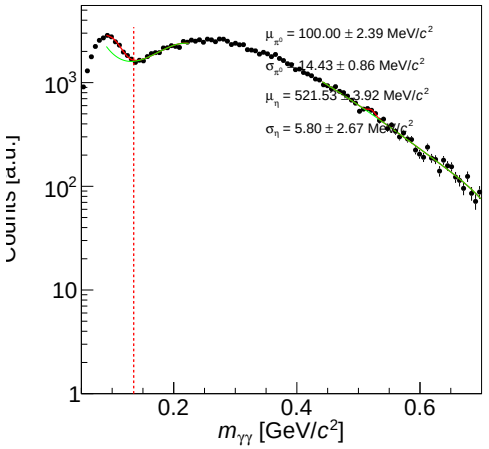


QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 23

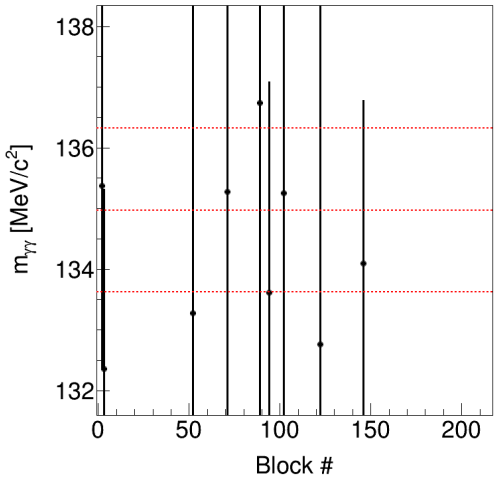


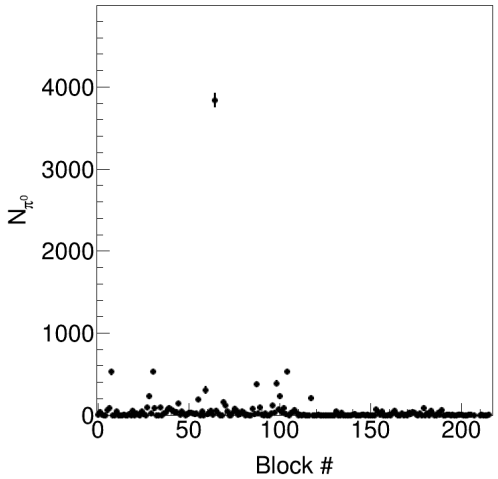


QC per rings

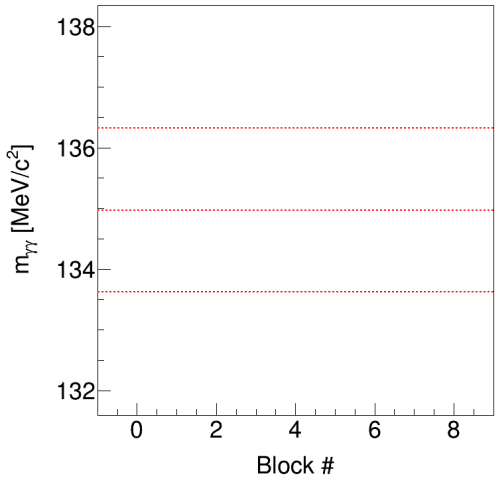
If radius divided by 5 cm, there is 24 rings

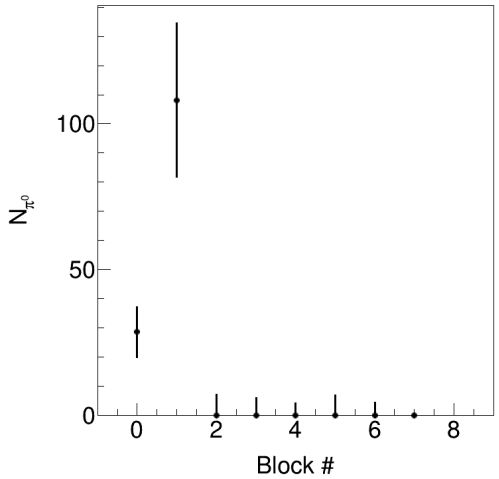
- Ring 23



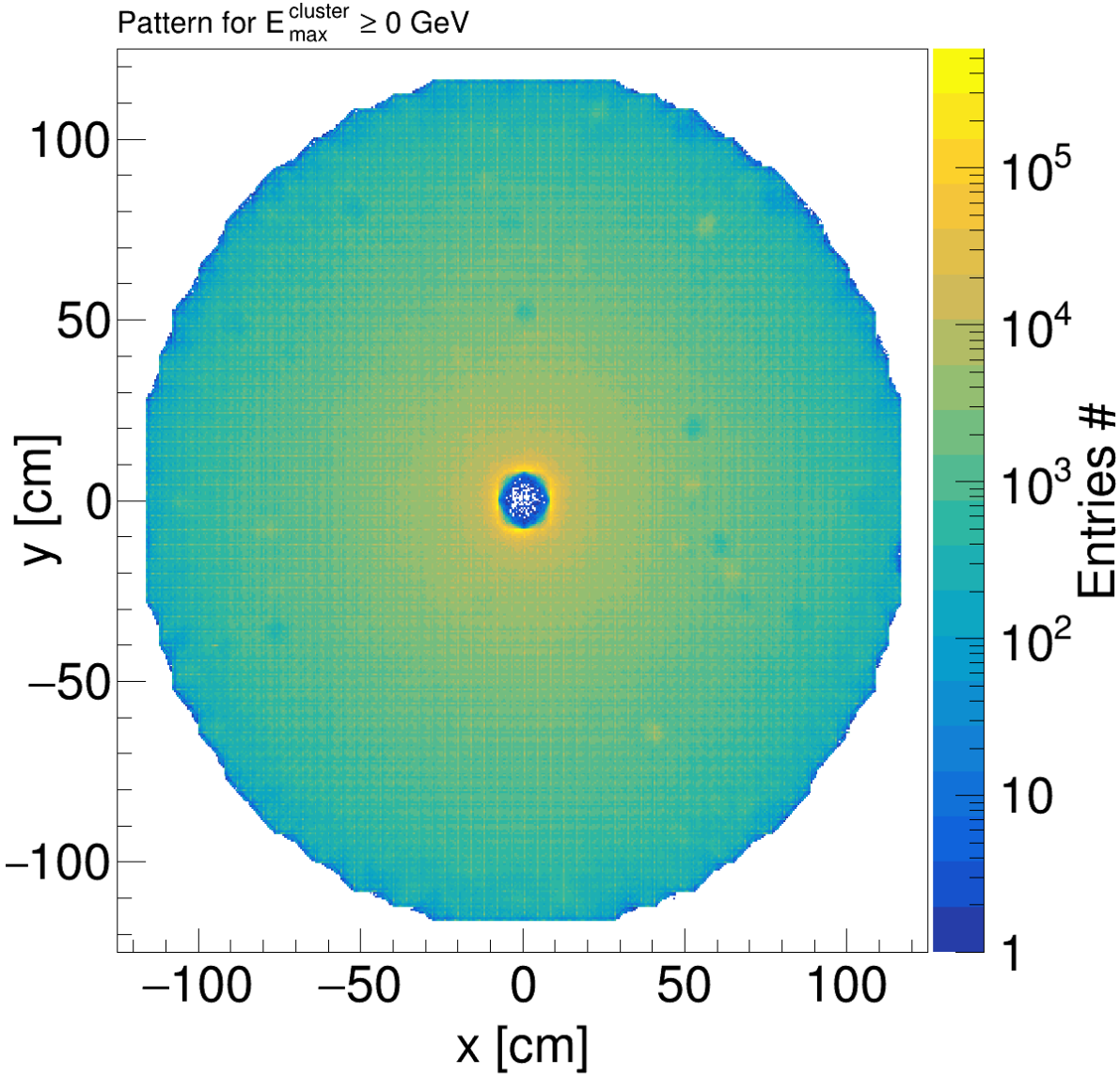


- Ring 24

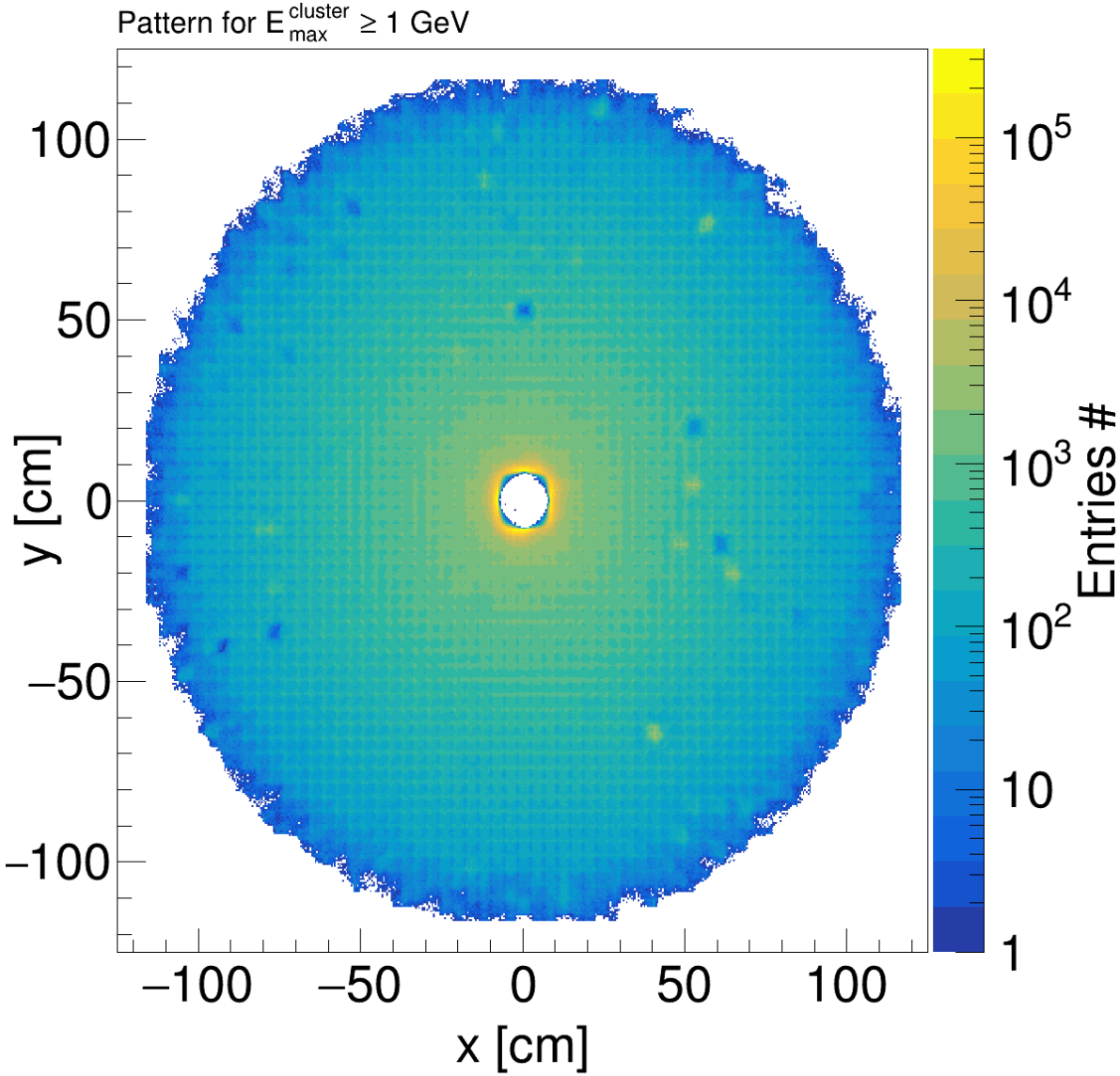




FCAL pattern



FCAL pattern



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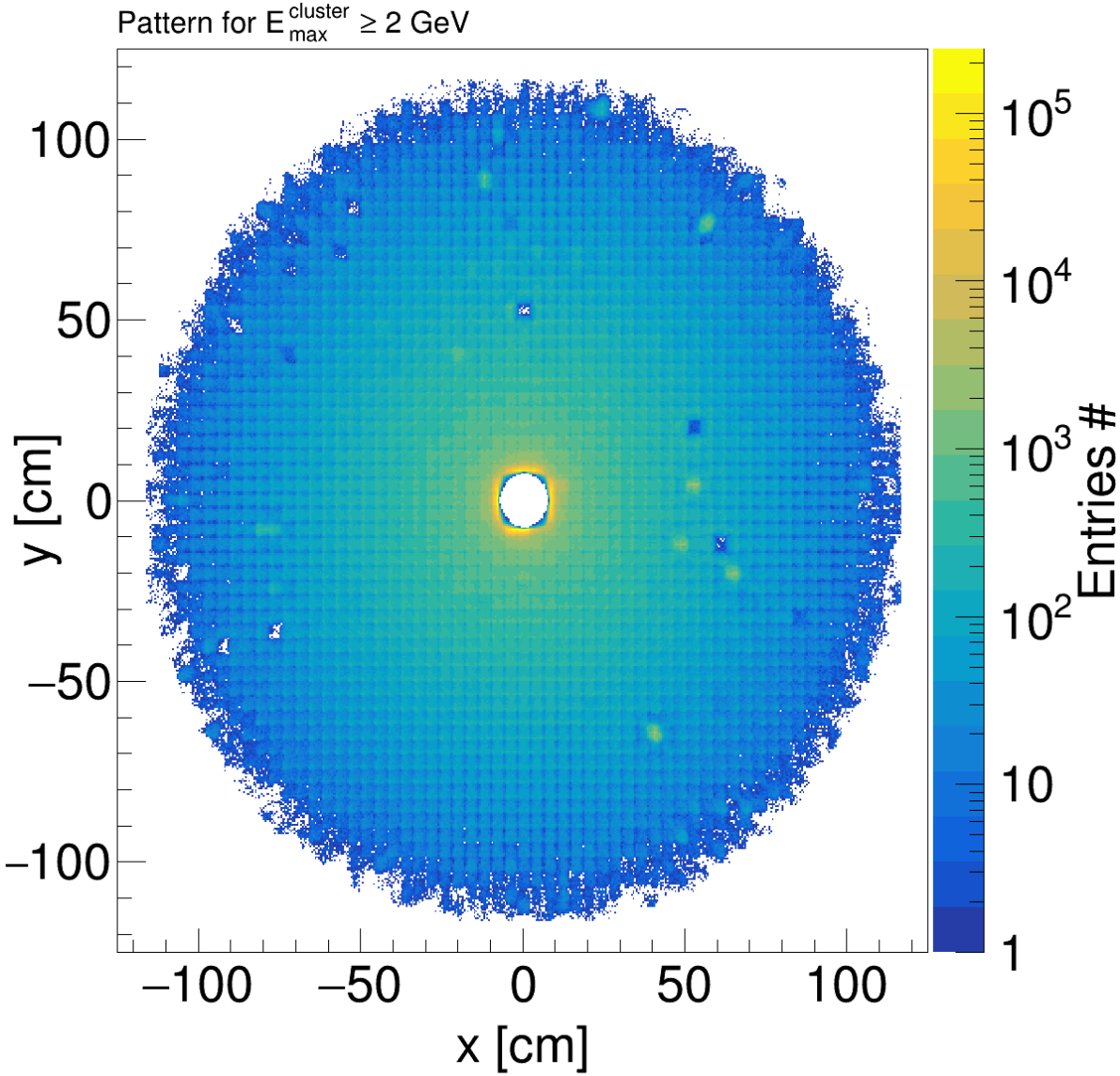

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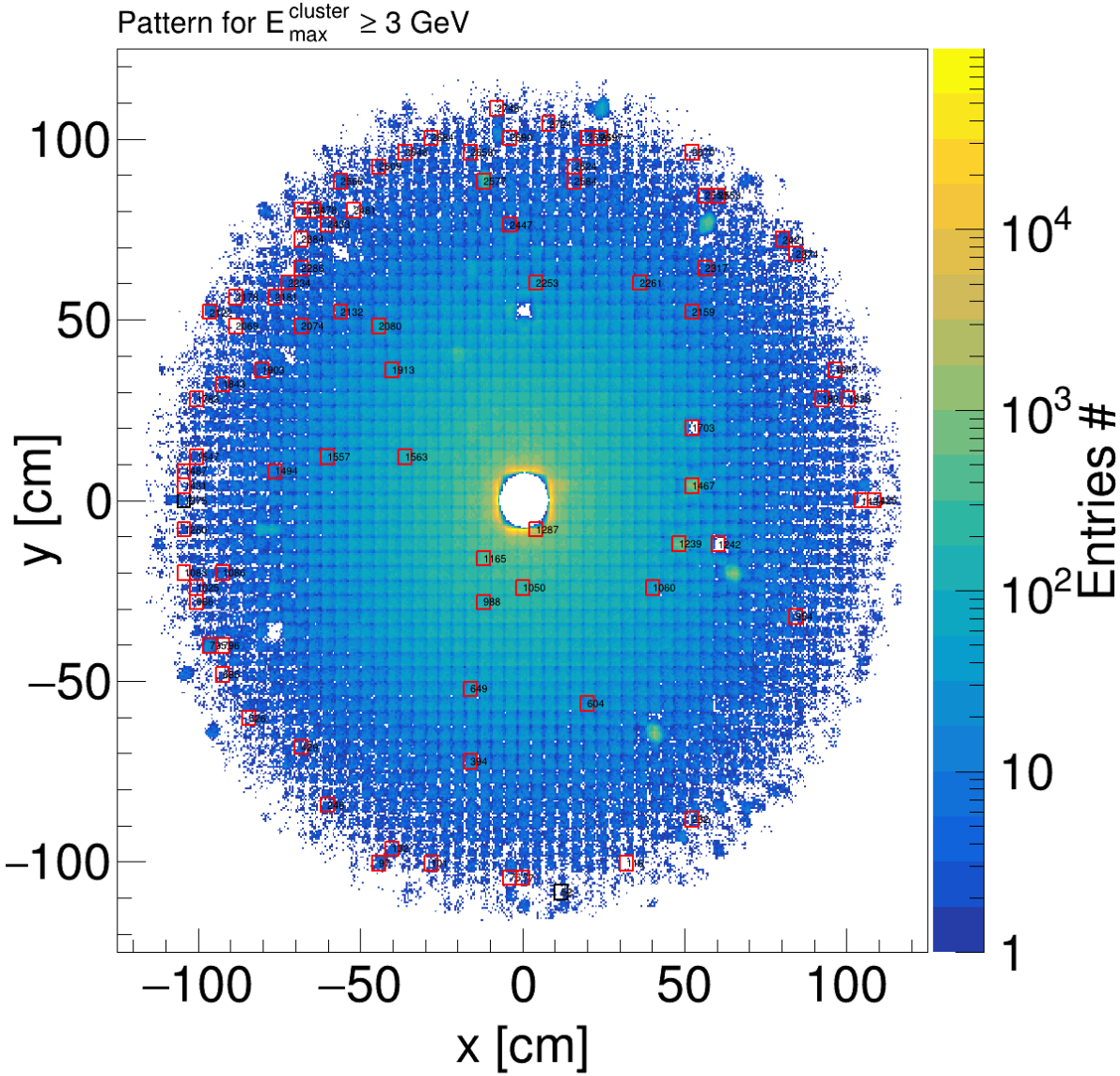

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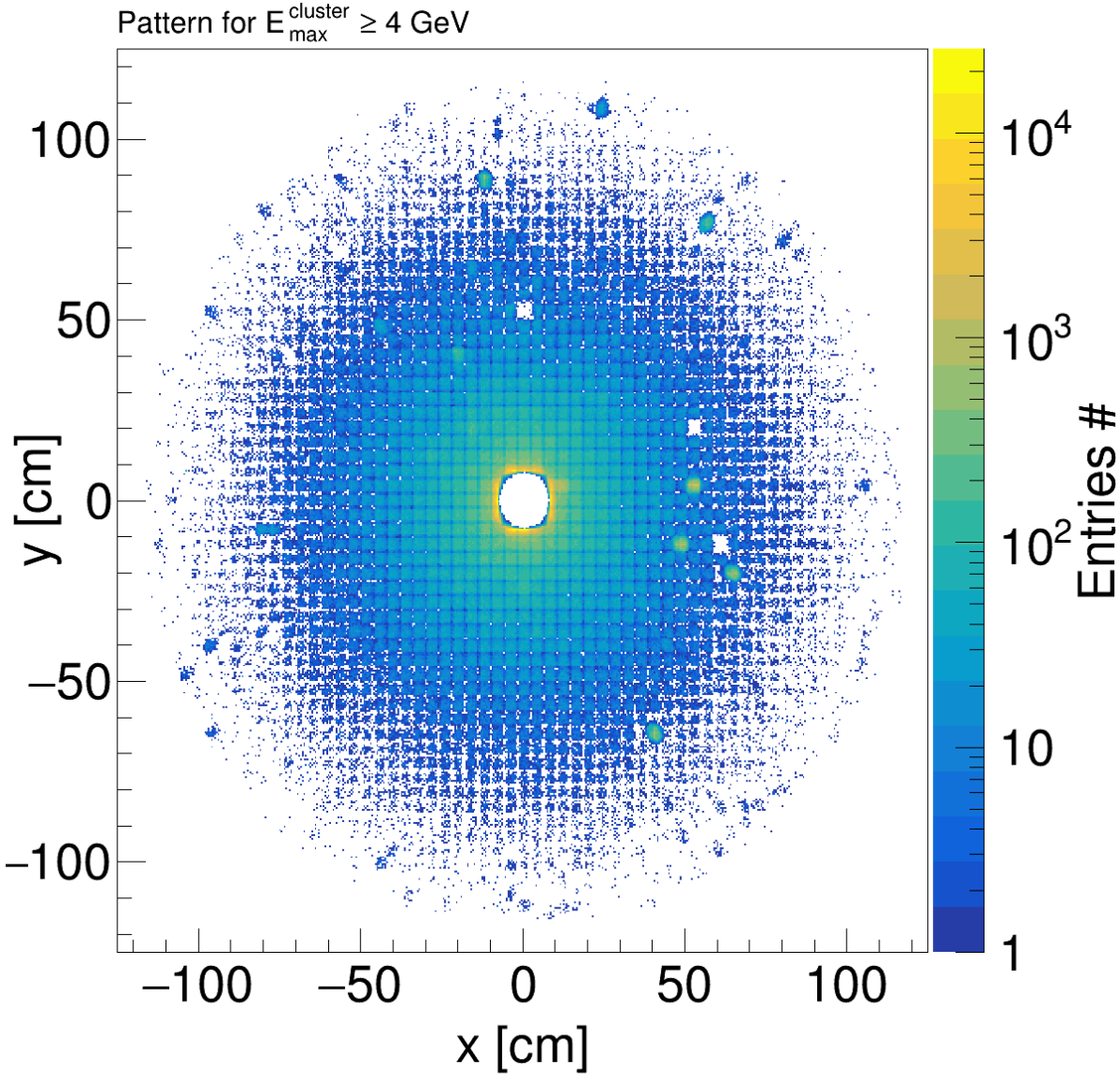

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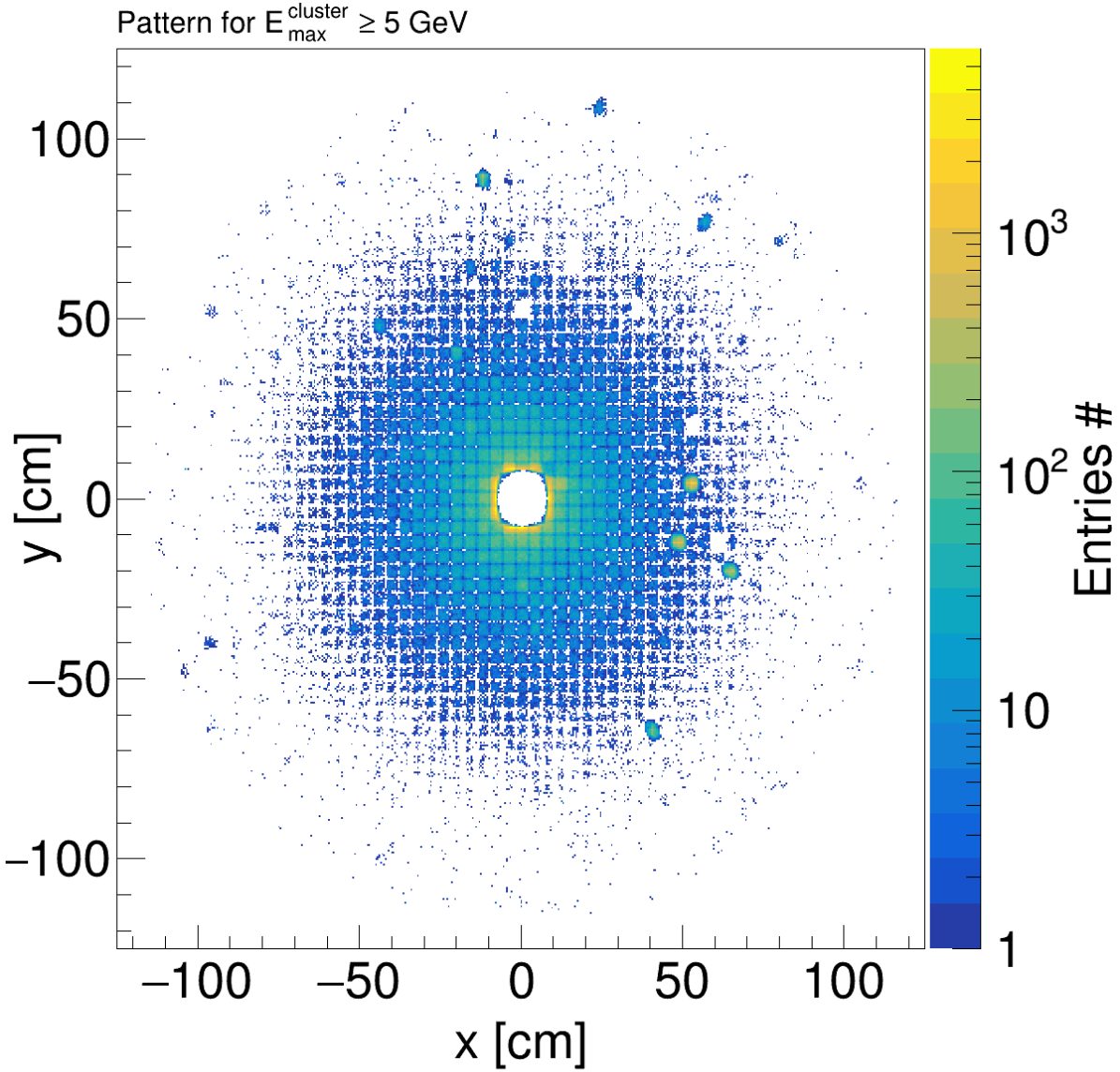

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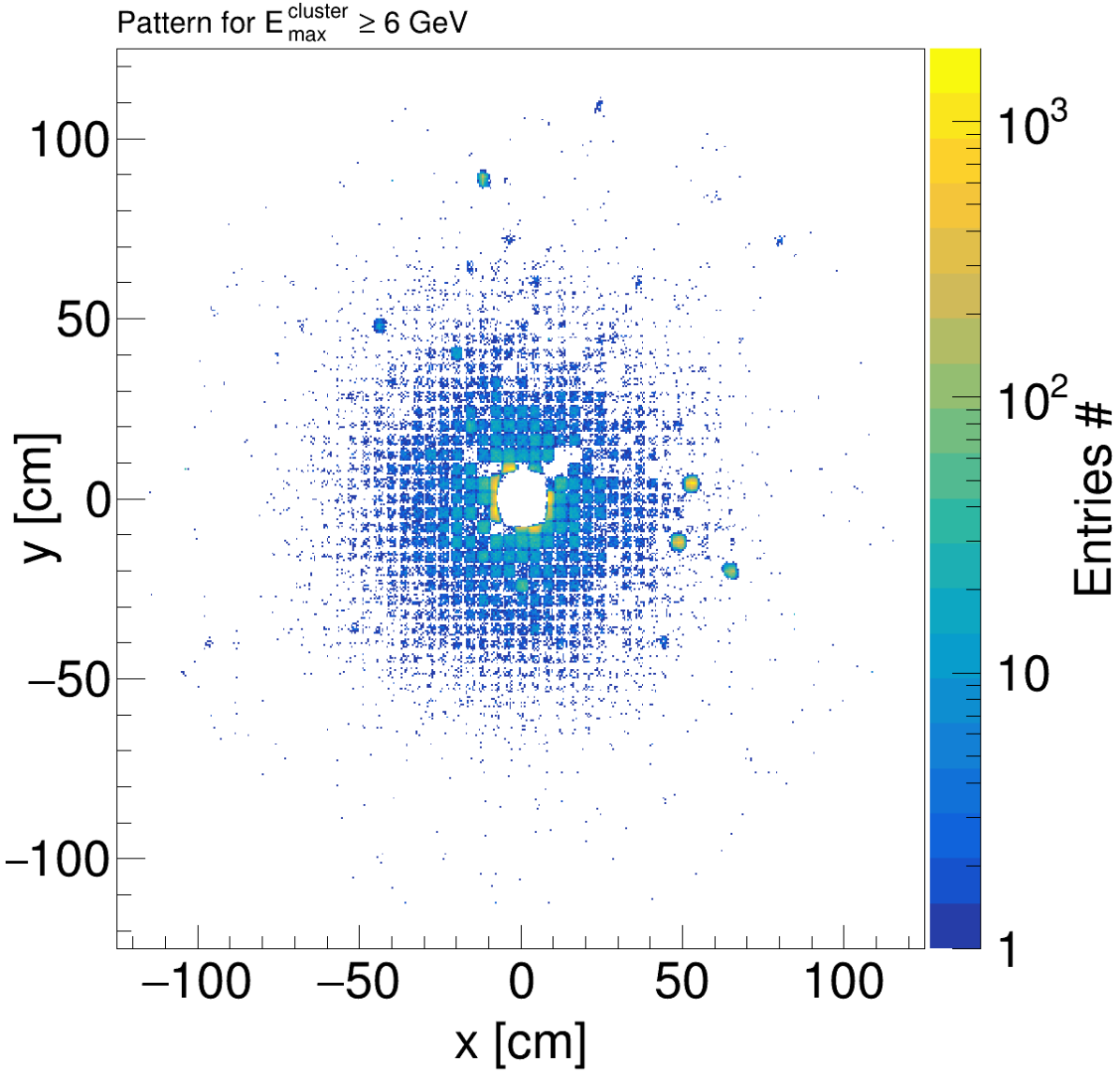

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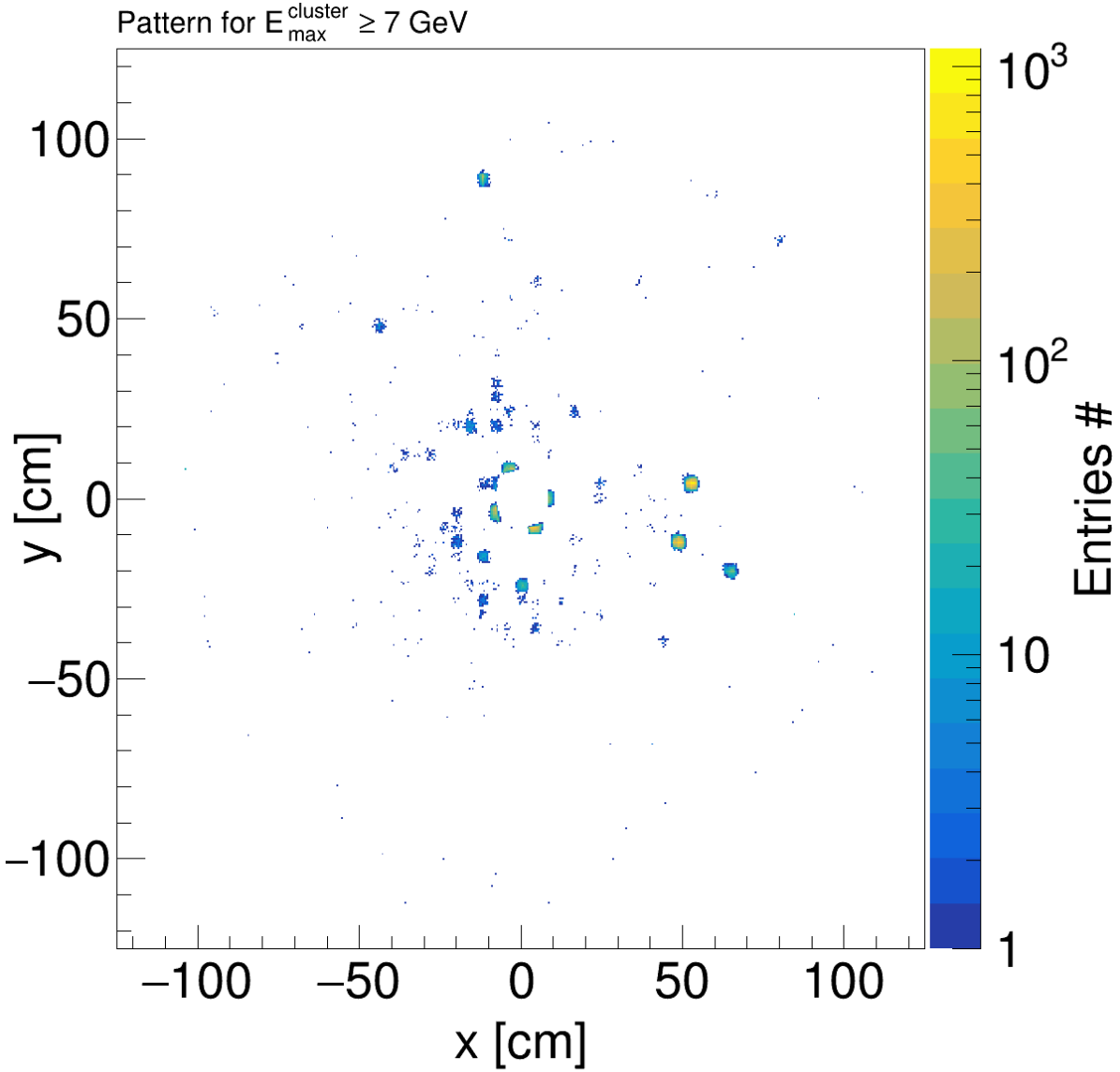

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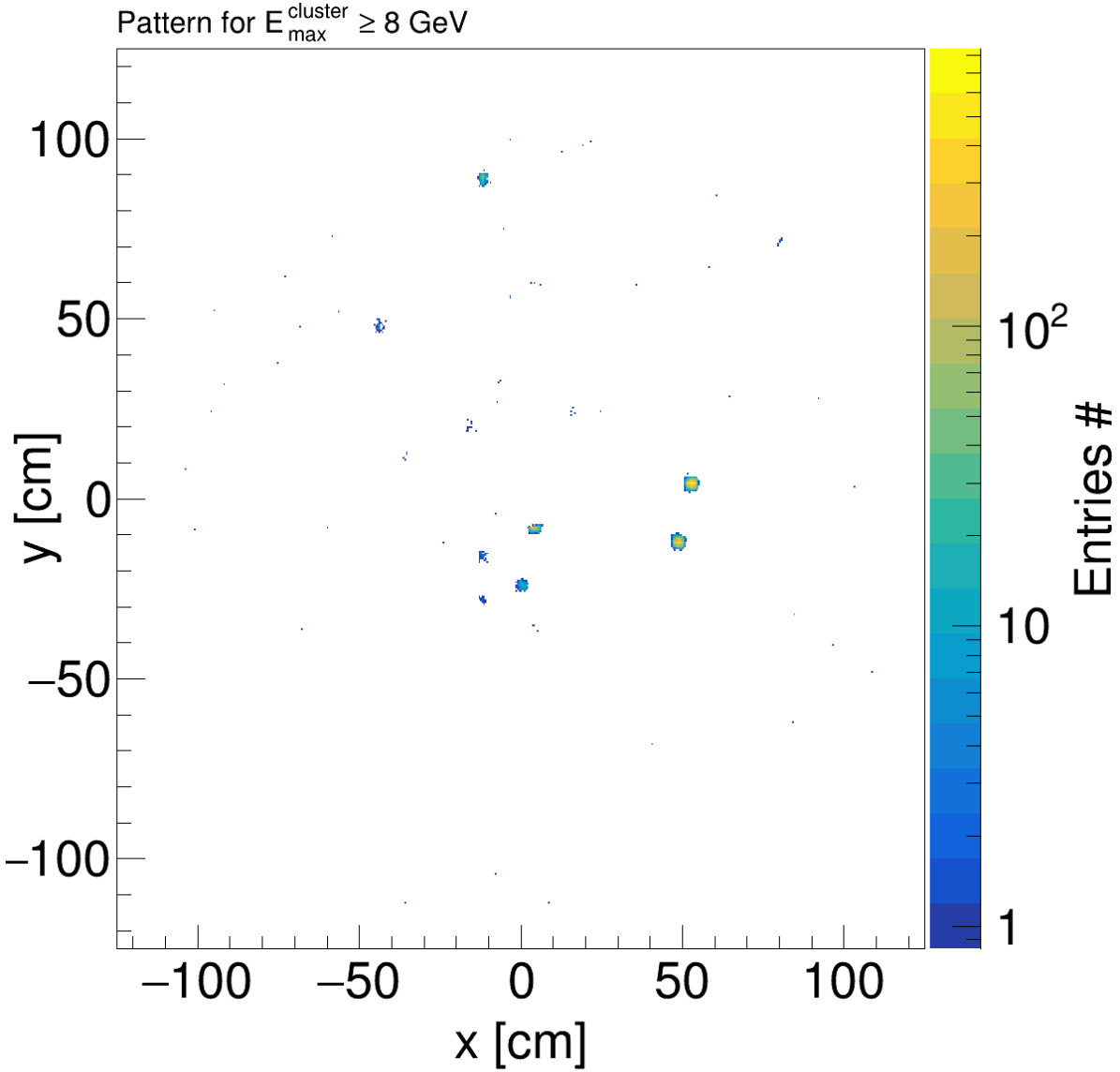

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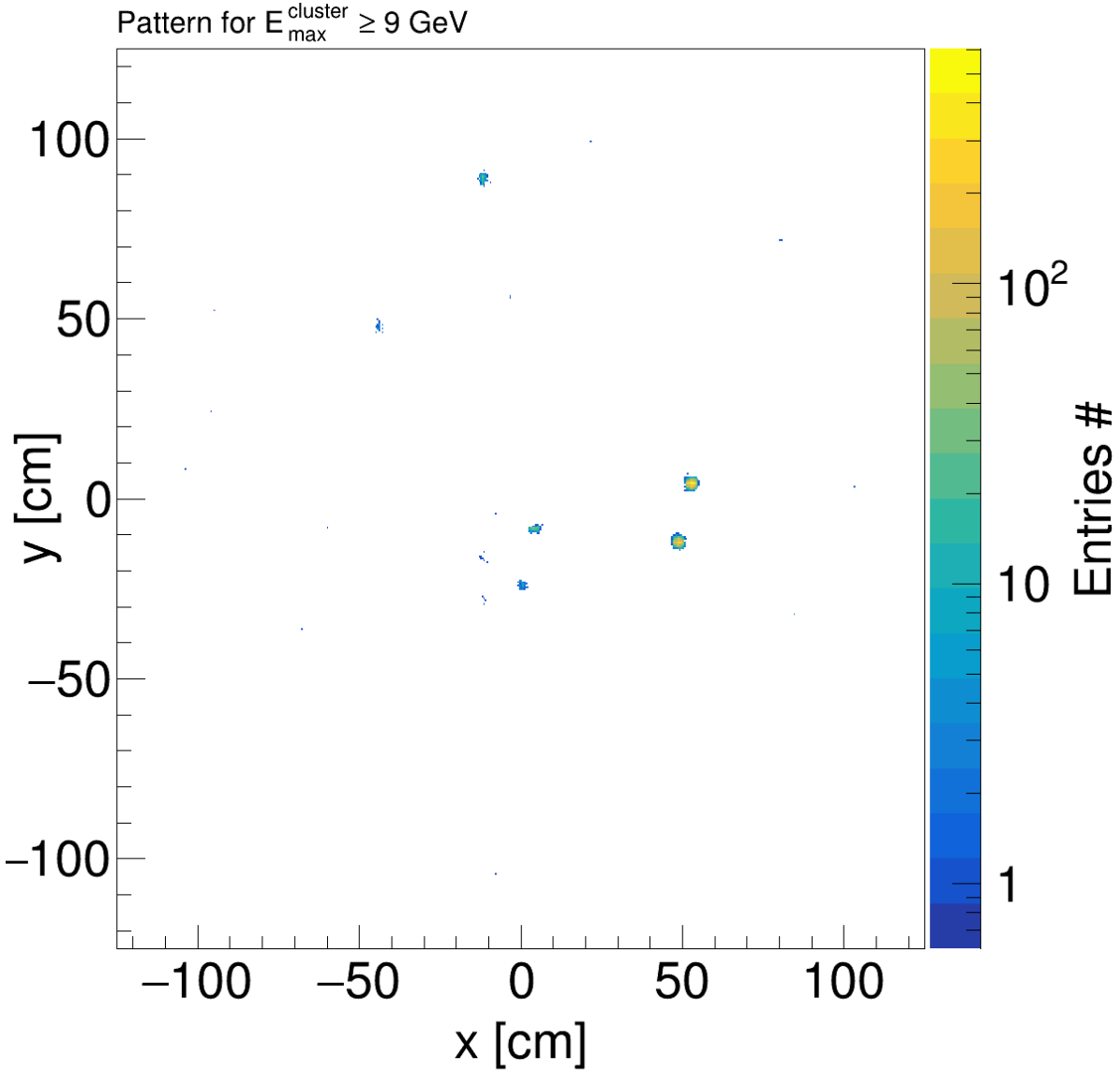
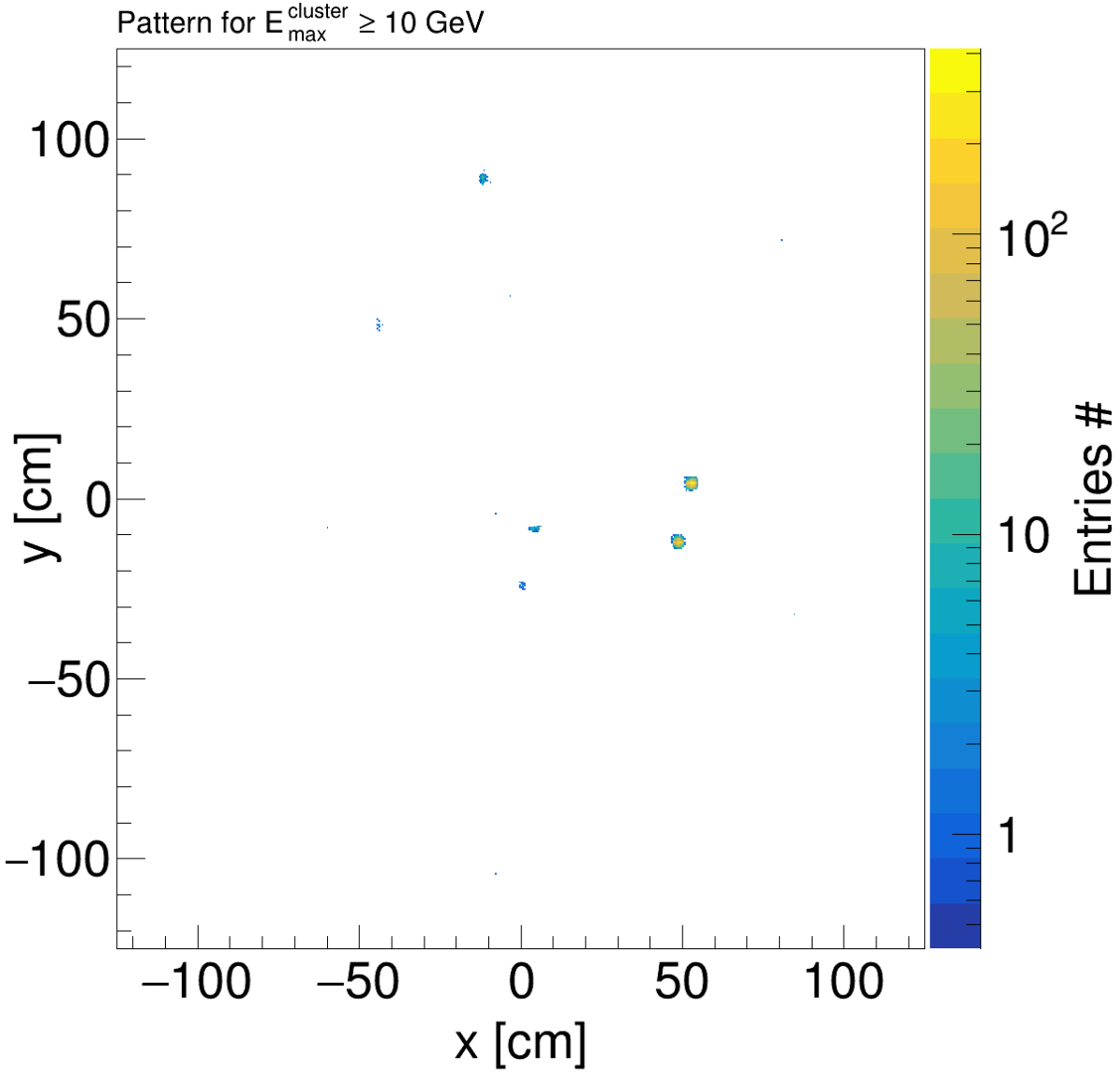
FCAL pattern