FCAL energy calibration QC

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Thomas Jefferson National Accelerator Facility

for the GlueX Collaboration

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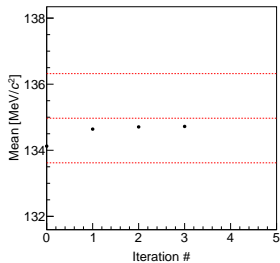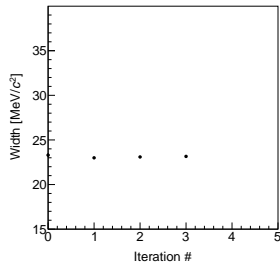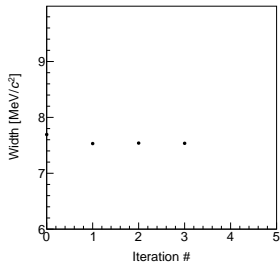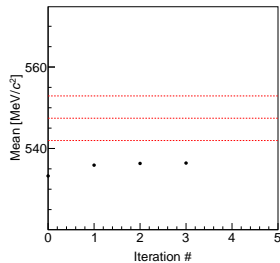2022-08-period-22-iteration-4-method-2
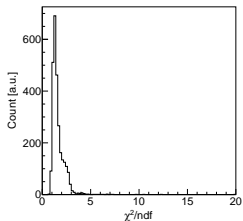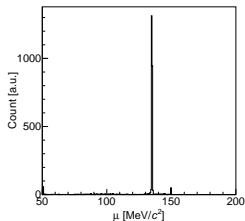
Table of contents

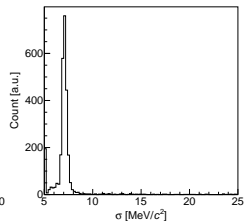# Overall QC vs iteration
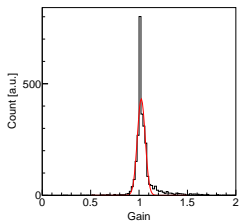
Overall QC, summary distributions
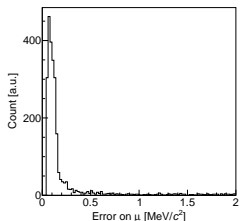

χ^2 distribution
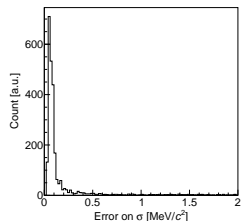
Fitted peak distribution

Fitted width distribution
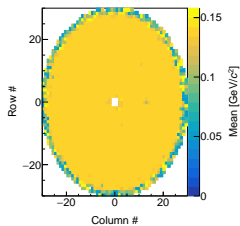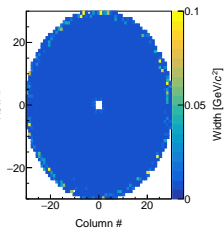
Gain distribution

Fitted peak error distribution

Fitted width error distribution

Overall QC, summary maps

Fitted peak map   Fitted width map   Gain map
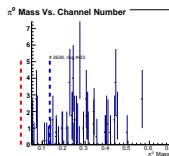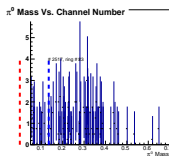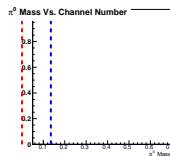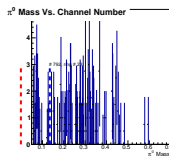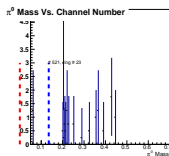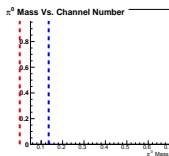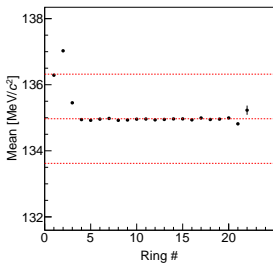
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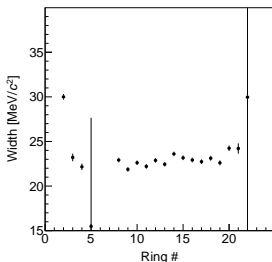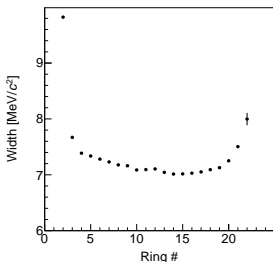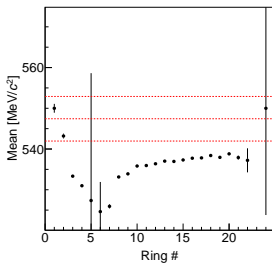
QC per rings

If radius divided by 5 cm, there is 24 rings

- π^0

- η

QC per rings

If radius divided by 5 cm, there is 24 rings
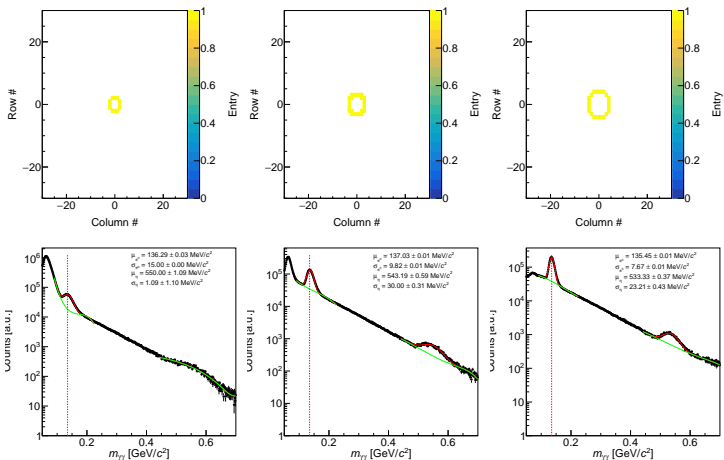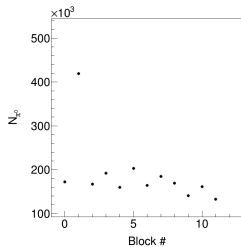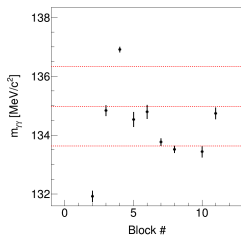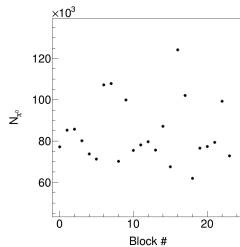

Ring 1

Ring 2
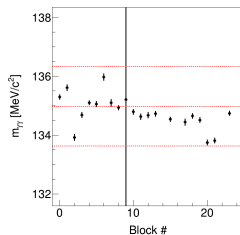
Ring 3

QC per rings

If radius divided by 5 cm, there is 24 rings
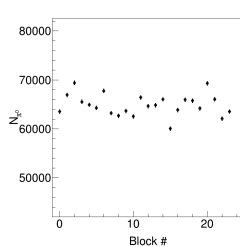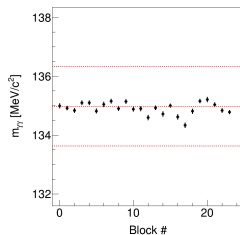
● Ring 1   ● Ring 2   ● Ring 3

QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 4
- Ring 5
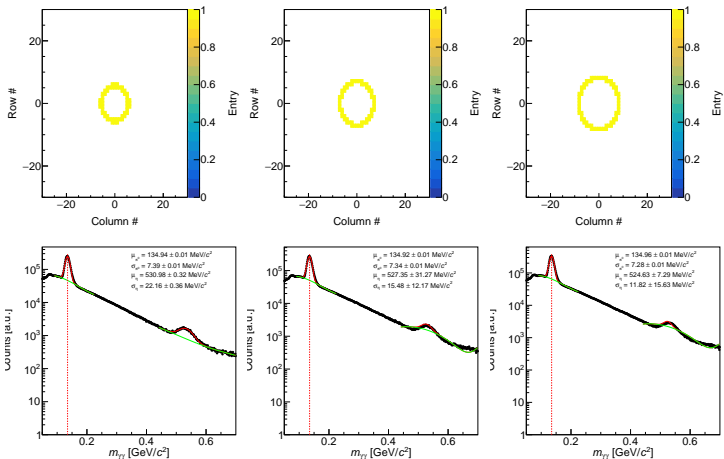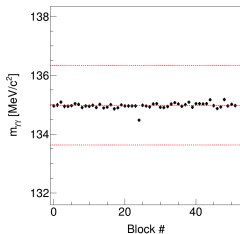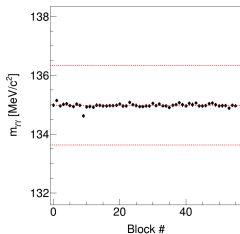- Ring 6

QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 4
- Ring 5
- Ring 6

QC per rings

If radius divided by 5 cm, there is 24 rings
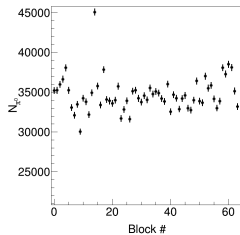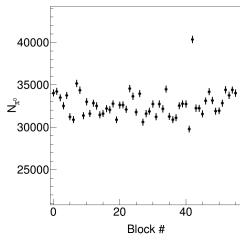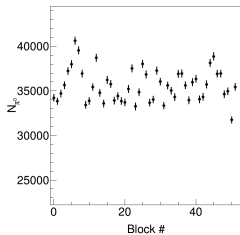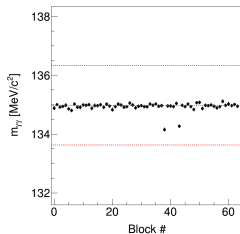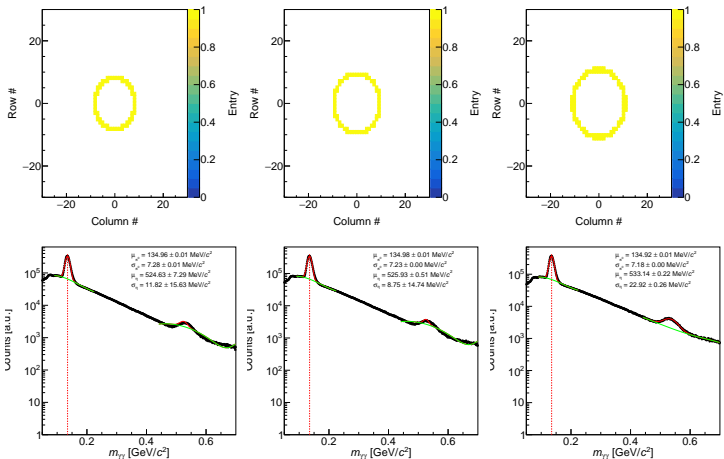
● Ring 7   ● Ring 8   ● Ring 9

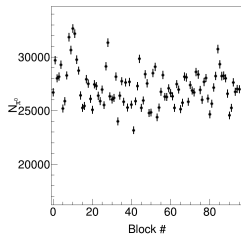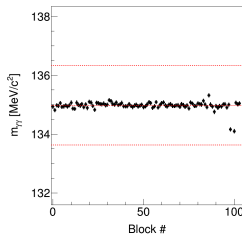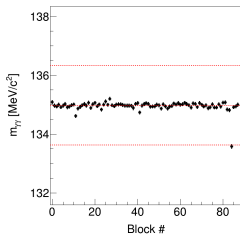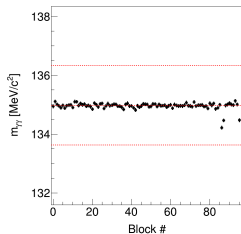# QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 7   ● Ring 8   ● Ring 9

QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 11
- Ring 12
- Ring 13

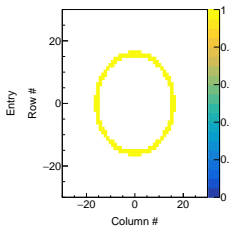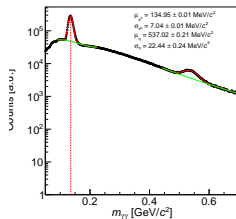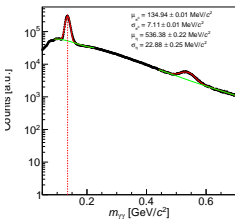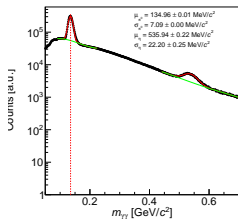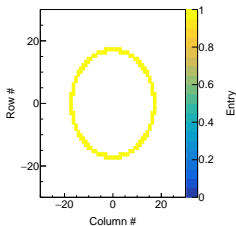# QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 11   ● Ring 12   ● Ring 13
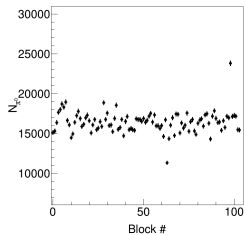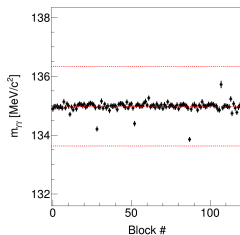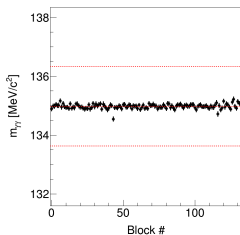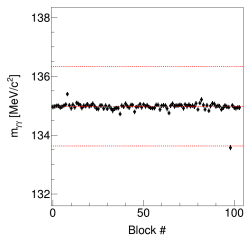
QC per rings

If radius divided by 5 cm, there is 24 rings

- Ring 14

- Ring 15

- Ring 16

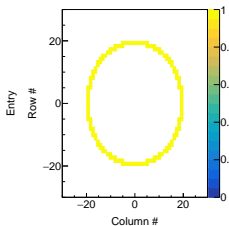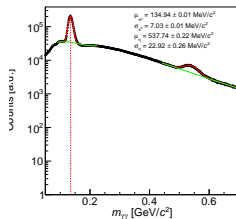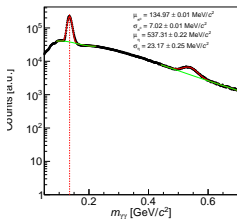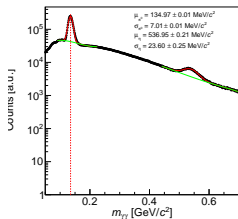# QC per rings

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
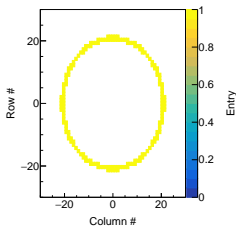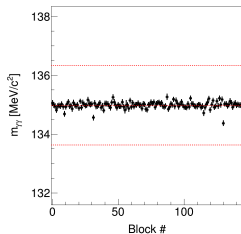
- Ring 17

- Ring 18

- Ring 19

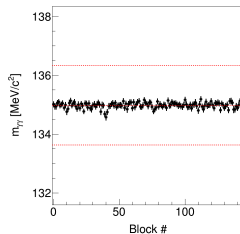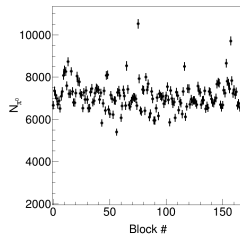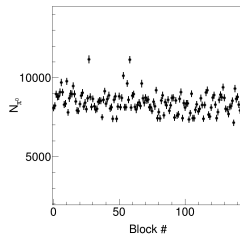# QC per rings

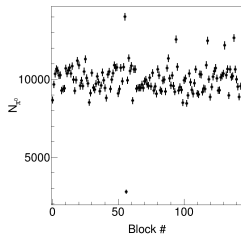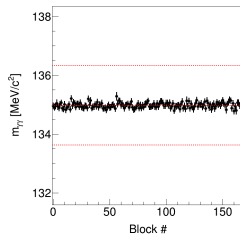If radius divided by 5 cm, there is 24 rings

- Ring 17
- Ring 18
- Ring 19

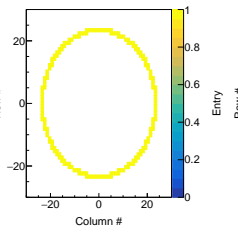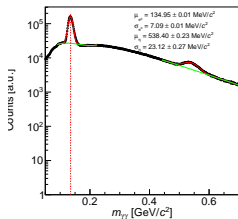# QC per rings

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
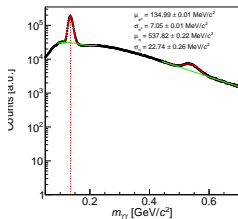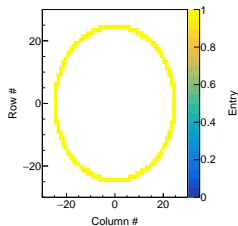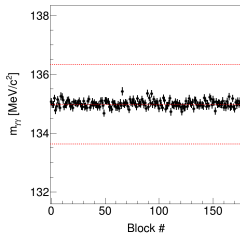- Ring 22

QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 23

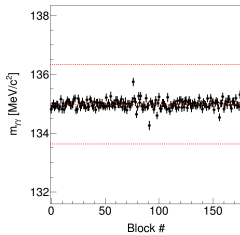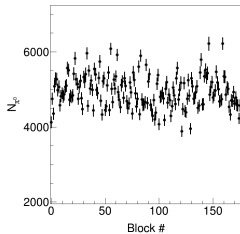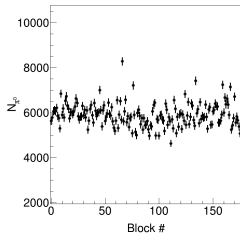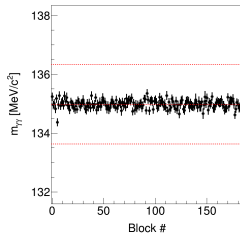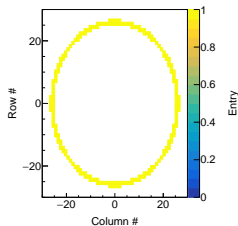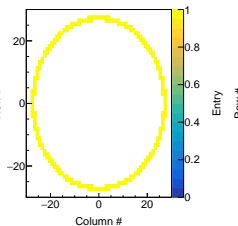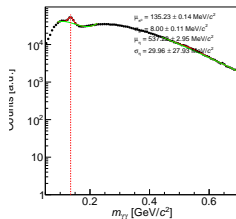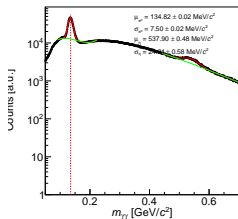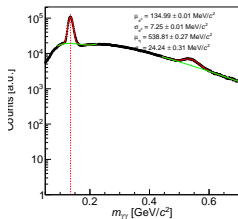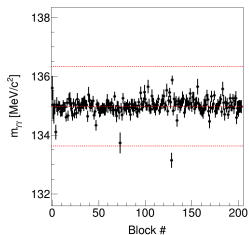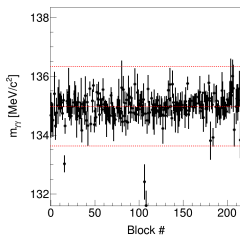# QC per rings

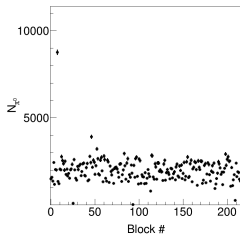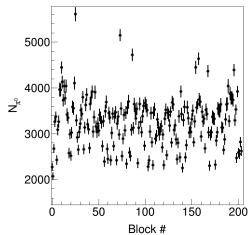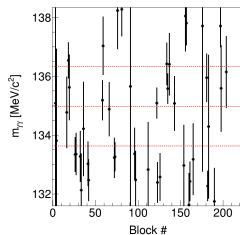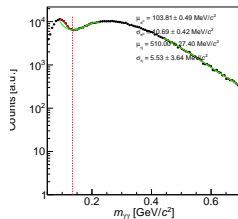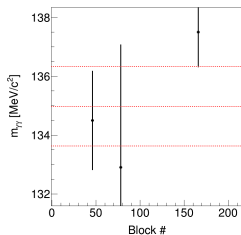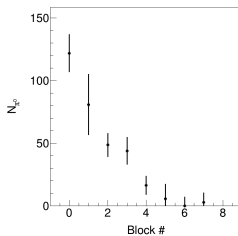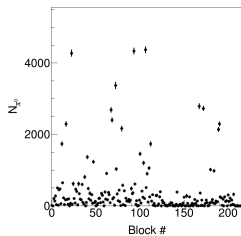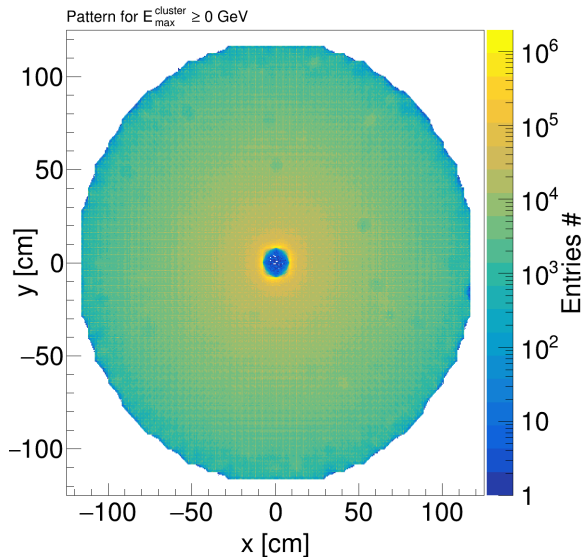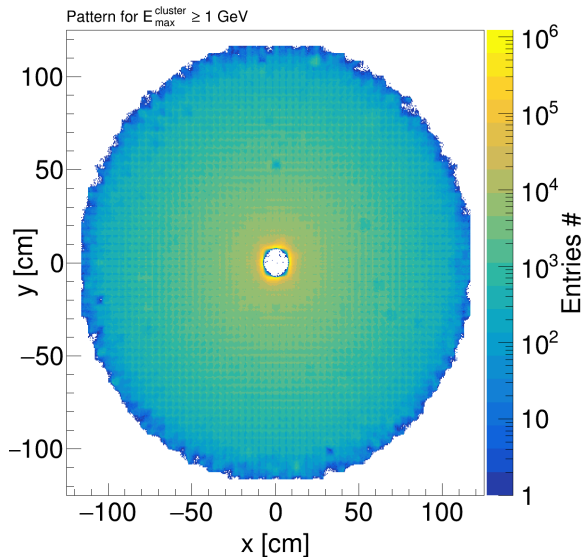If radius divided by 5 cm, there is 24 rings

- Ring 23

- Ring 24

FCAL pattern

Pattern for $E_{max}^{cluster} \geq 0$ GeV

FCAL pattern

Pattern for $E_{max}^{cluster} \geq 1$ GeV

FCAL pattern

Pattern for $E_{max}^{cluster} \geq 2$ GeV

FCAL pattern

FCAL pattern

Pattern for $E_{max}^{cluster} \geq 4$ GeV
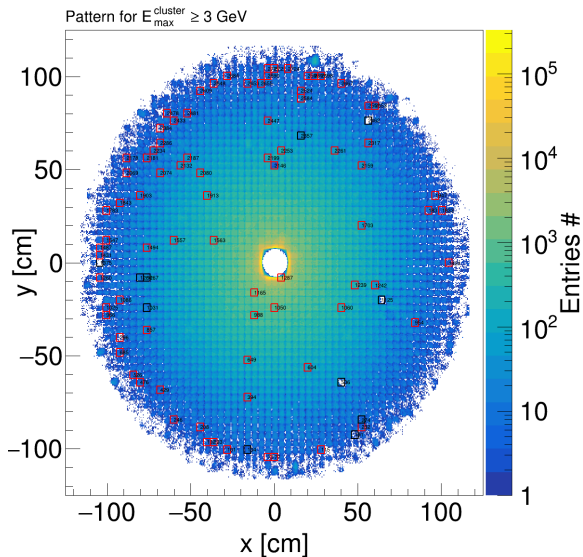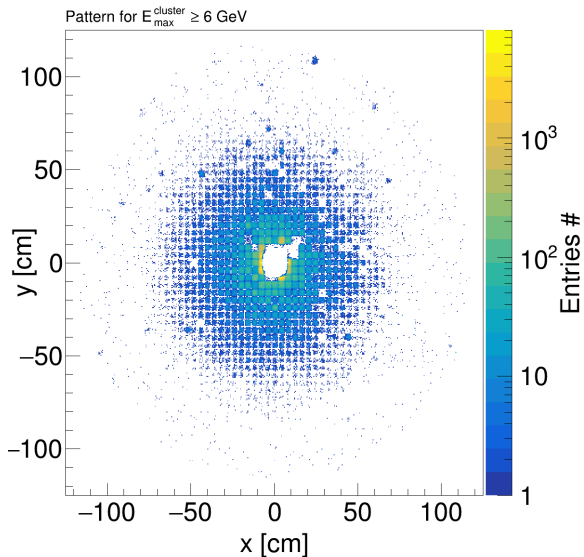
FCAL pattern

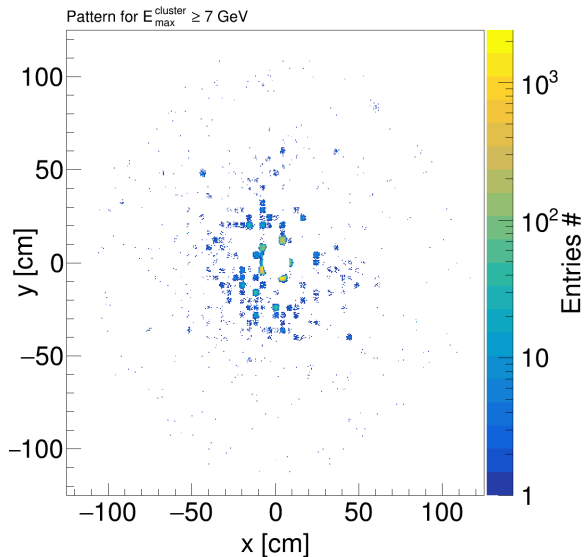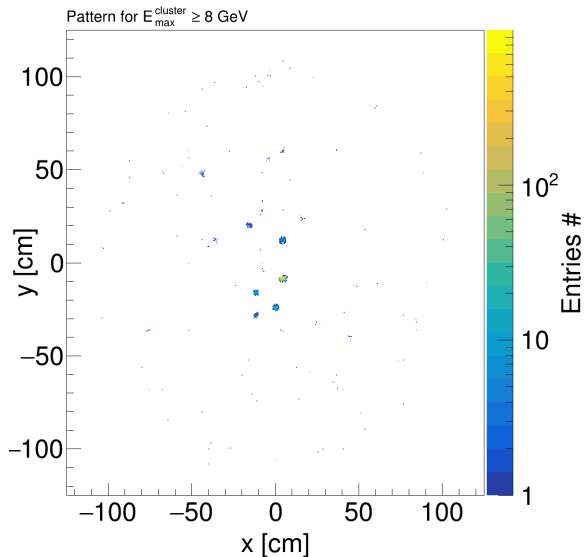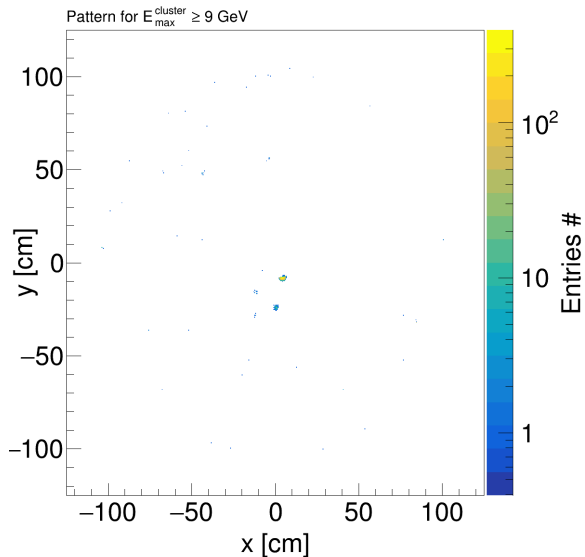Pattern for $E_{max}^{cluster} \geq 5$ GeV

FCAL pattern

FCAL pattern

FCAL pattern

Pattern for $E_{max}^{cluster} \geq 8$ GeV

FCAL pattern

FCAL pattern

Pattern for $E_{max}^{cluster} \geq 10$ GeV