

FCAL energy calibration QC

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Thomas Jefferson National Accelerator Facility

for the **GlueX** Collaboration

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2022-08-period-2-iteration-9-method-2

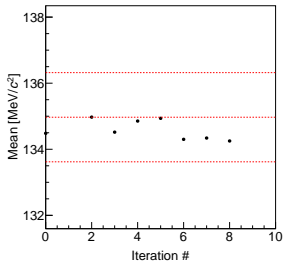


Table of contents

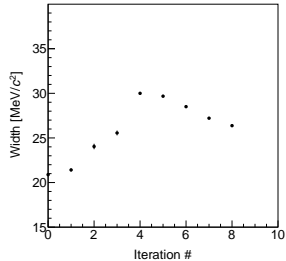
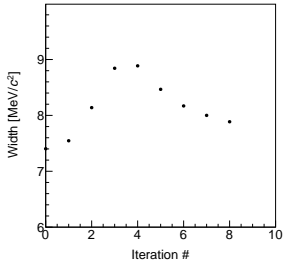
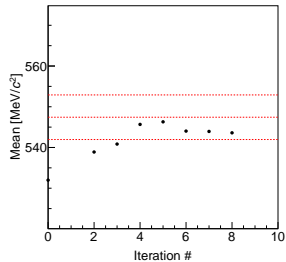
- 1 Overall QC
- 2 QC per rings

Overall QC vs iteration

● π^0

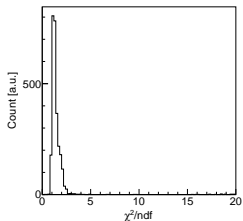


● η

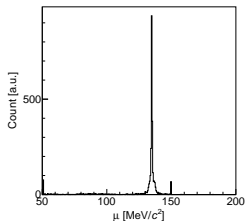


Overall QC, summary distributions

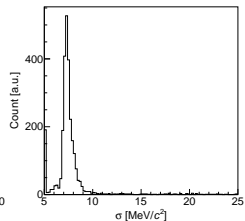
● χ^2 distribution



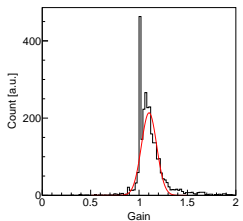
● Fitted peak distribution



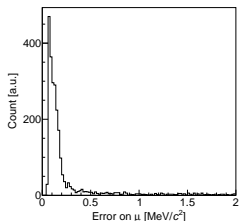
● Fitted width distribution



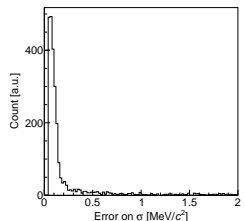
● Gain distribution



● Fitted peak error distribution

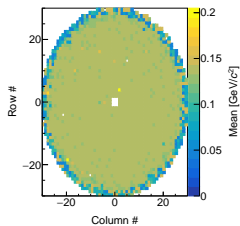


● Fitted width error distribution

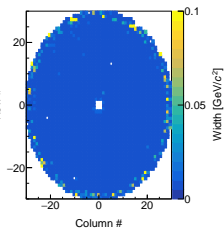


Overall QC, summary maps

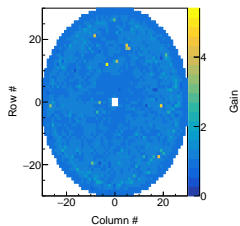
● Fitted peak map



● Fitted width map



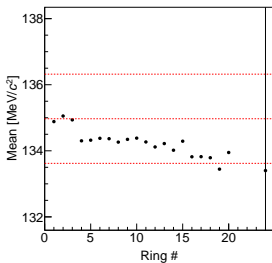
● Gain map



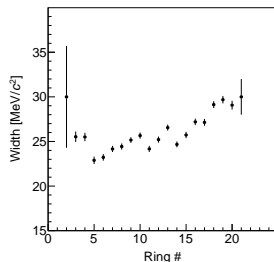
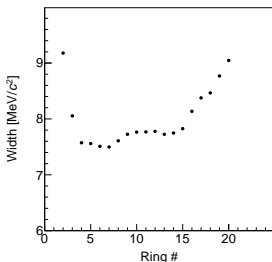
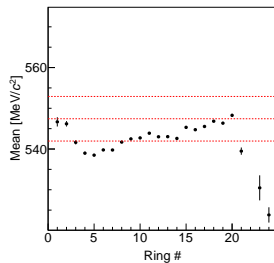
QC per rings

If radius divided by 5 cm, there is 24 rings

● π^0



● η



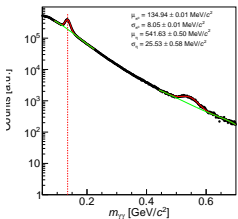
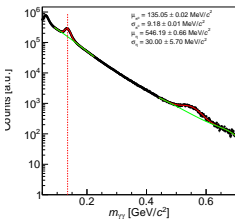
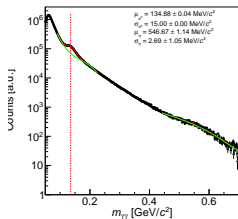
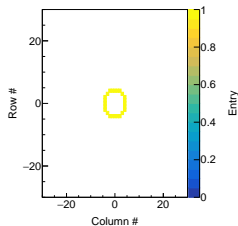
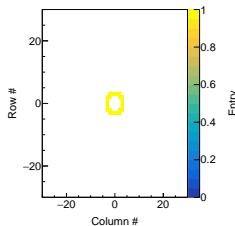
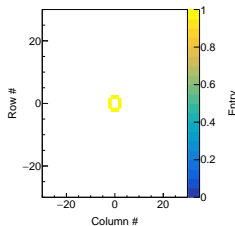
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 1

● Ring 2

● Ring 3



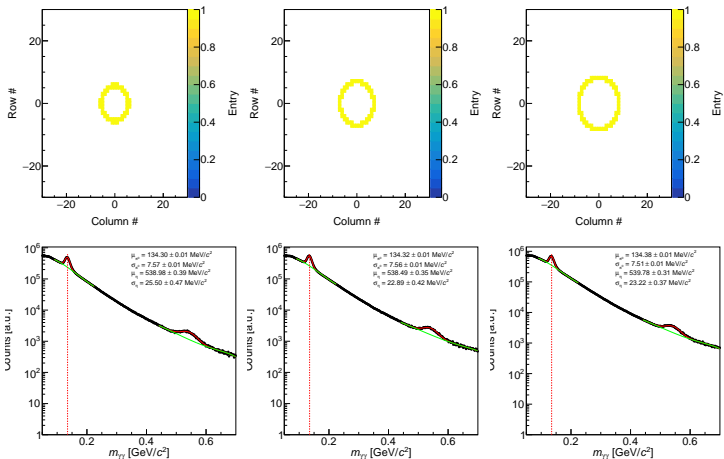
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 4

● Ring 5

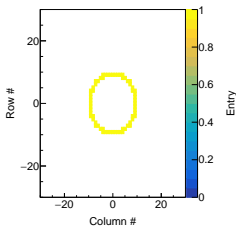
● Ring 6



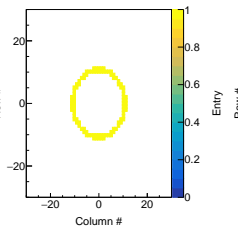
QC per rings

If radius divided by 5 cm, there is 24 rings

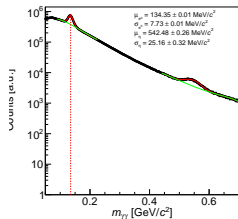
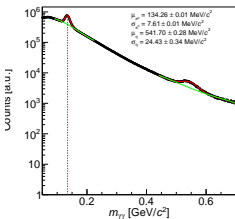
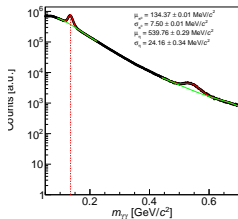
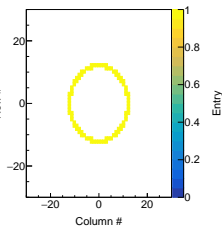
● Ring 7



● Ring 8



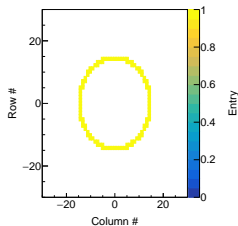
● Ring 9



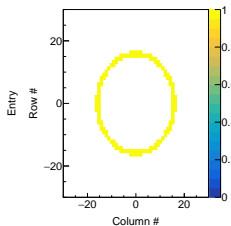
QC per rings

If radius divided by 5 cm, there is 24 rings

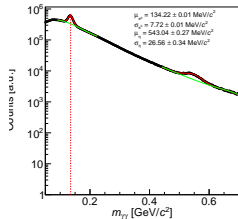
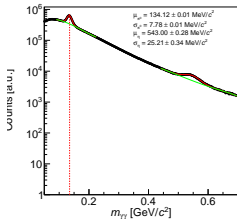
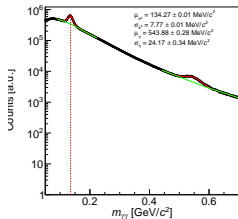
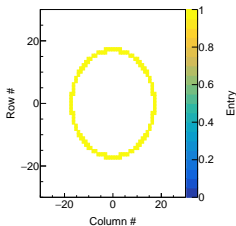
● Ring 11



● Ring 12



● Ring 13



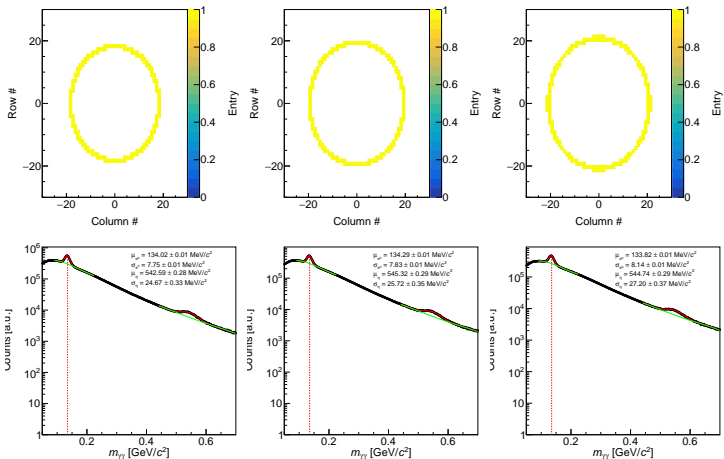
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 14

● Ring 15

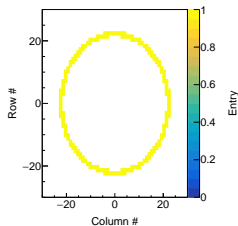
● Ring 16



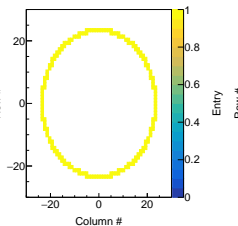
QC per rings

If radius divided by 5 cm, there is 24 rings

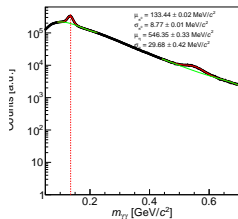
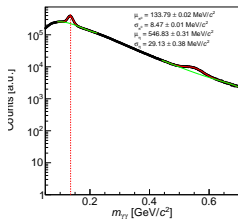
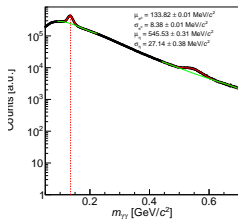
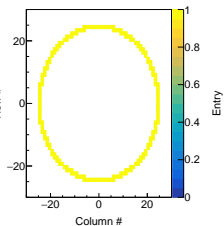
● Ring 17



● Ring 18



● Ring 19



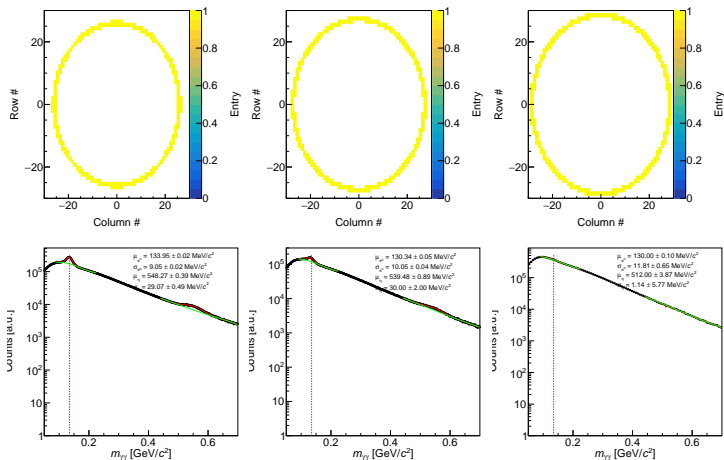
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 20

● Ring 21

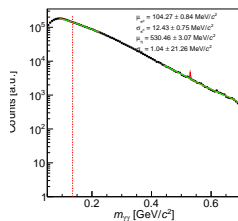
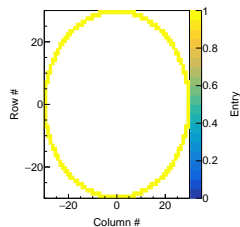
● Ring 22



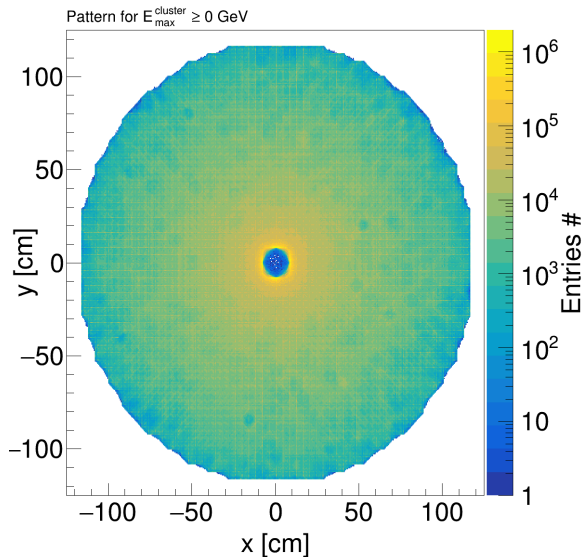
QC per rings

If radius divided by 5 cm, there is 24 rings

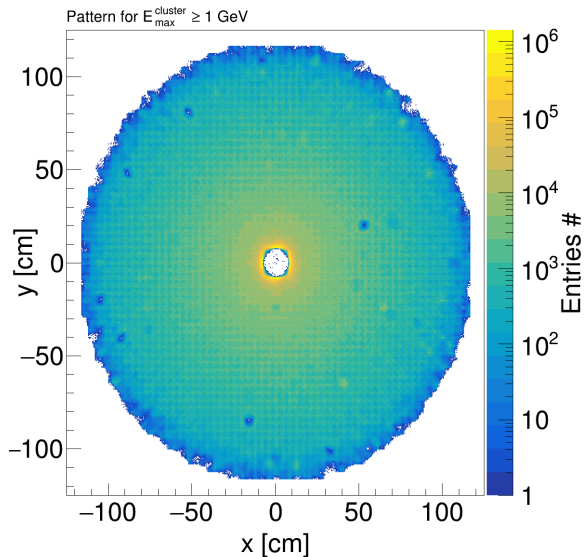
- Ring 23



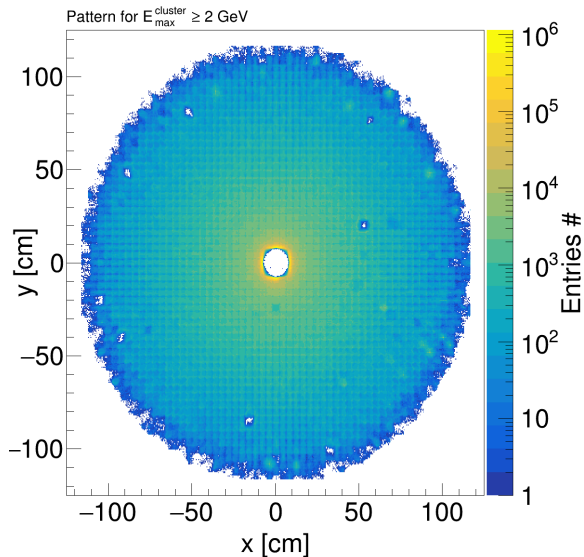
FCAL pattern



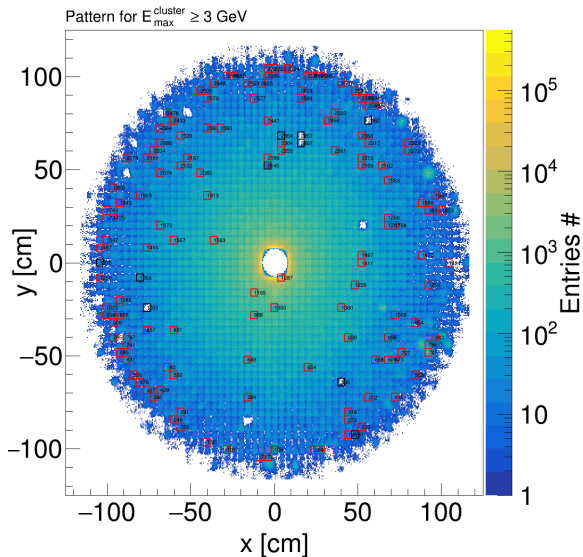
FCAL pattern



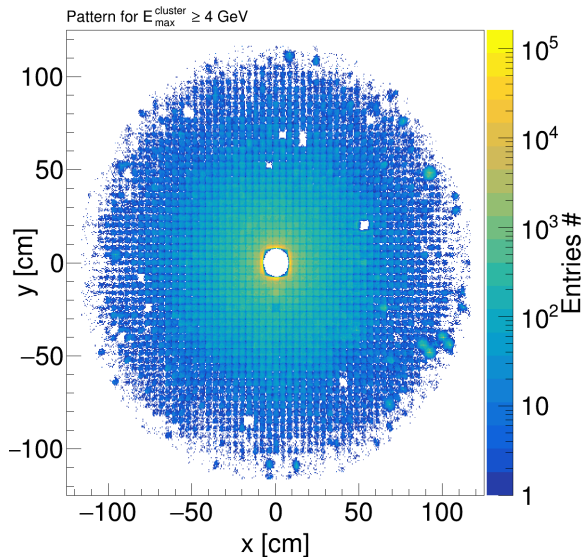
FCAL pattern



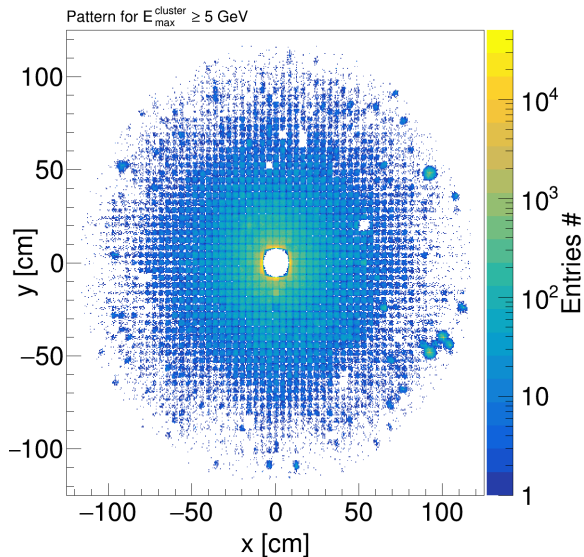
FCAL pattern



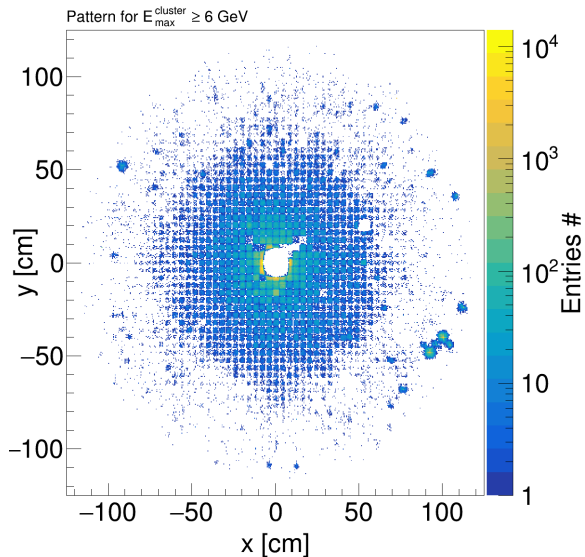
FCAL pattern



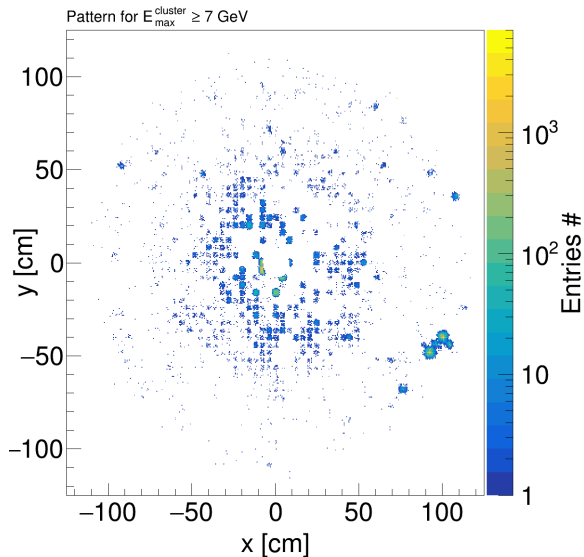
FCAL pattern



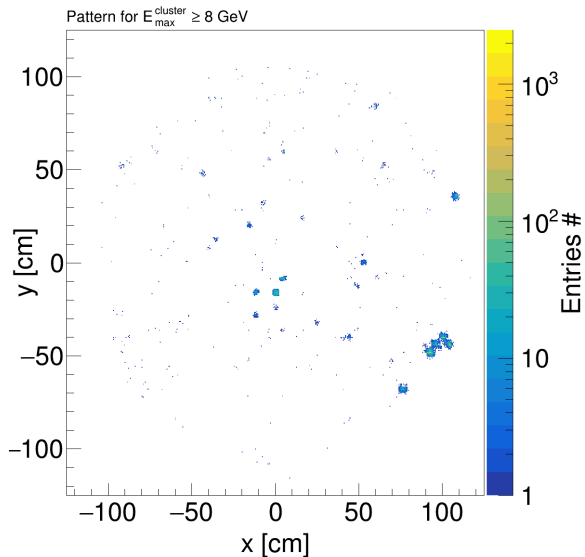
FCAL pattern



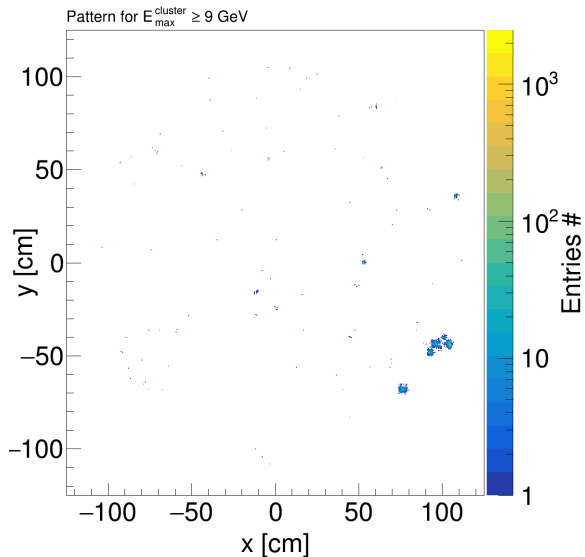
FCAL pattern



FCAL pattern



FCAL pattern



FCAL pattern

