

FCAL energy calibration QC

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Thomas Jefferson National Accelerator Facility

for the GlueX Collaboration

hephase2method0period21

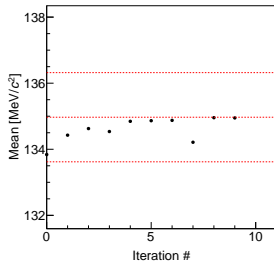


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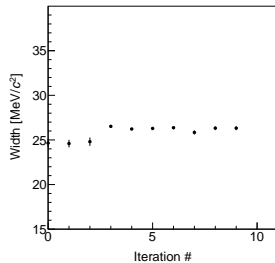
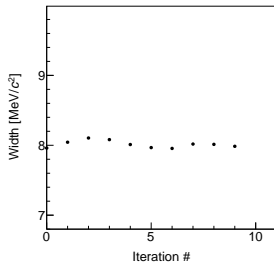
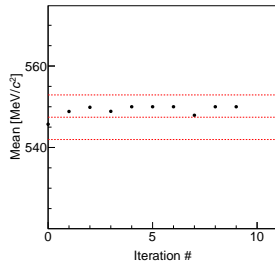
- 1 Overall QC
- 2 QC per rings

Overall QC vs iteration

• π^0

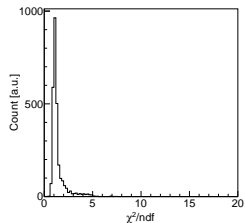


• η

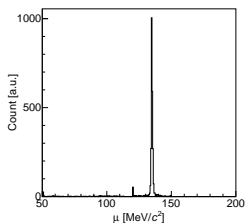


Overall QC, summary distributions

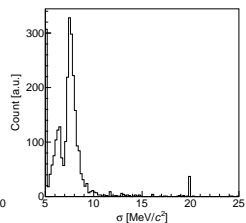
● χ^2 distribution



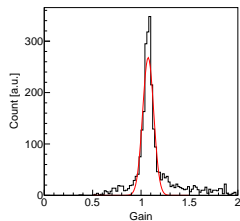
● Fitted peak distribution



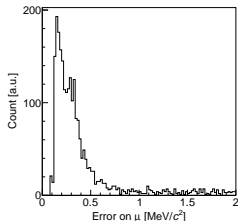
● Fitted width distribution



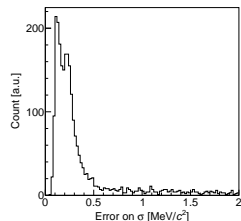
● Gain distribution



● Fitted peak error distribution

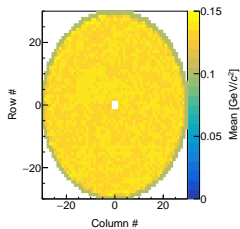


● Fitted width error distribution

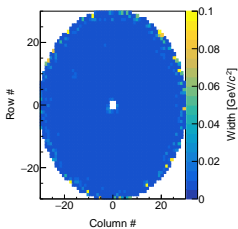


Overall QC, summary maps

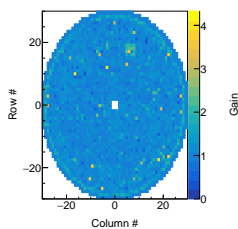
● Fitted peak map



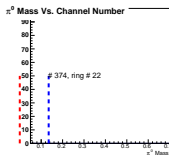
● Fitted width map



● Gain map



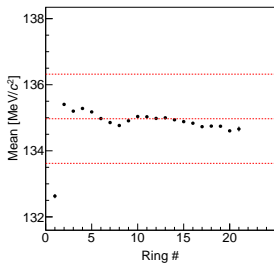
Overall QC, bad channels



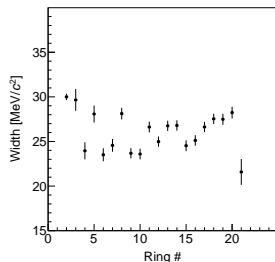
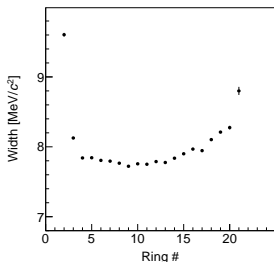
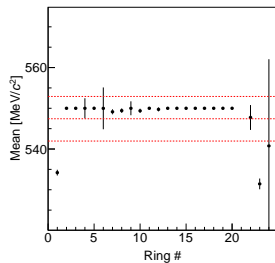
QC per rings

If radius divided by 5 cm, there is 24 rings

● π^0



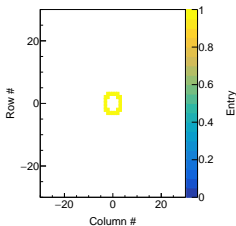
● η



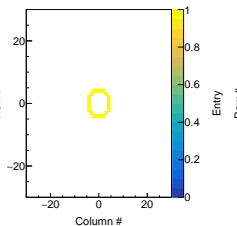
QC per rings

If radius divided by 5 cm, there is 24 rings

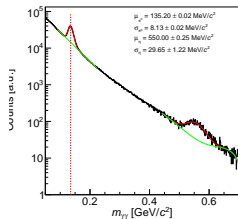
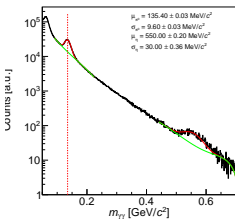
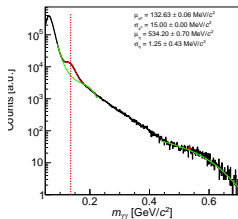
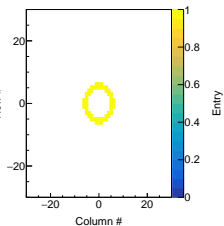
● Ring 1



● Ring 2



● Ring 3



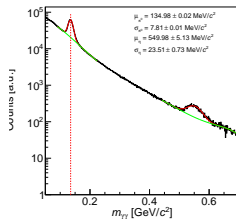
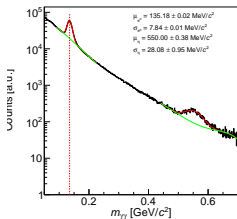
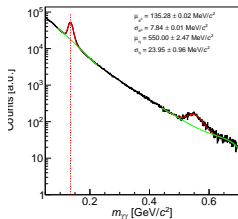
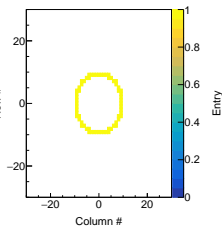
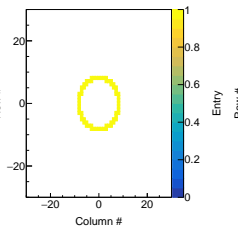
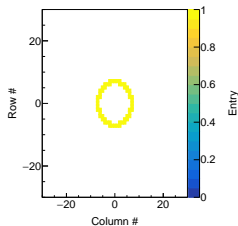
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 4

● Ring 5

● Ring 6



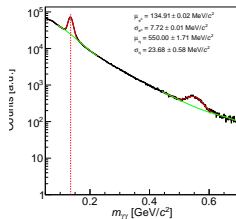
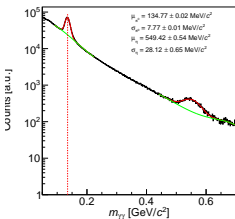
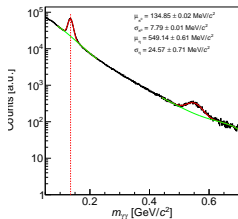
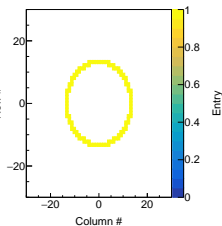
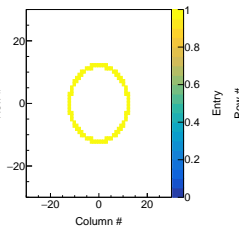
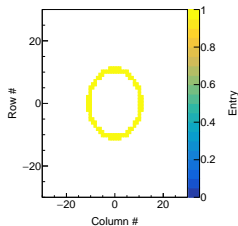
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 7

● Ring 8

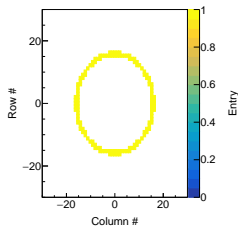
● Ring 9



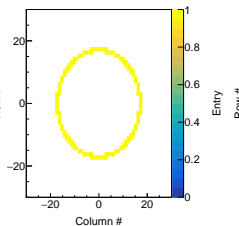
QC per rings

If radius divided by 5 cm, there is 24 rings

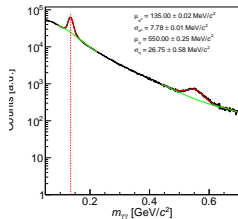
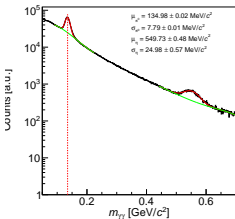
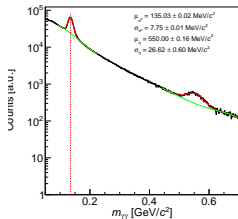
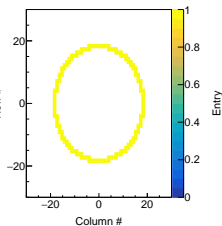
● Ring 11



● Ring 12



● Ring 13



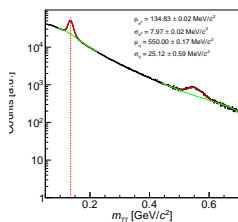
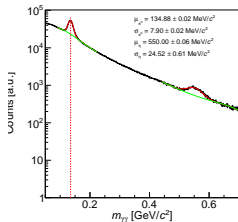
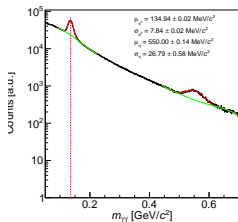
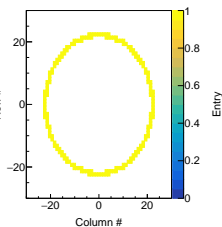
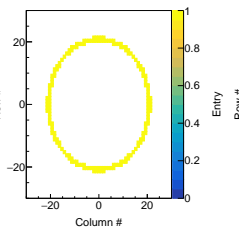
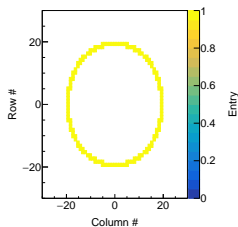
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 14

● Ring 15

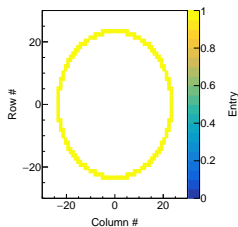
● Ring 16



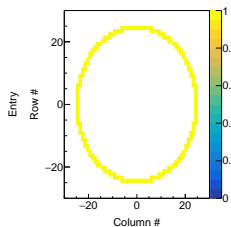
QC per rings

If radius divided by 5 cm, there is 24 rings

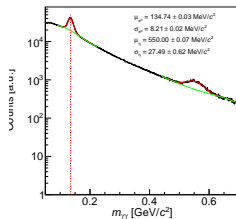
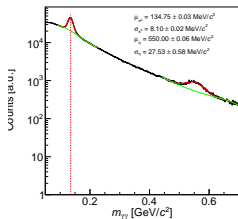
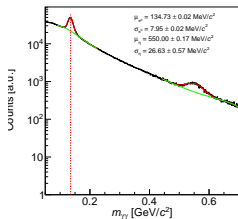
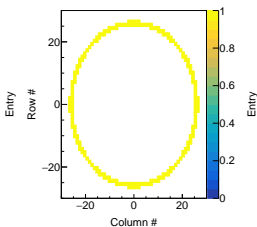
● Ring 17



● Ring 18



● Ring 19



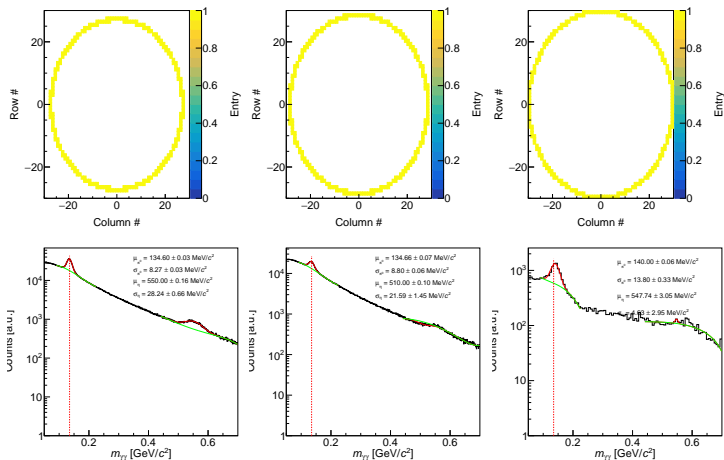
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 20

● Ring 21

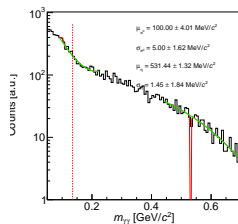
● Ring 22



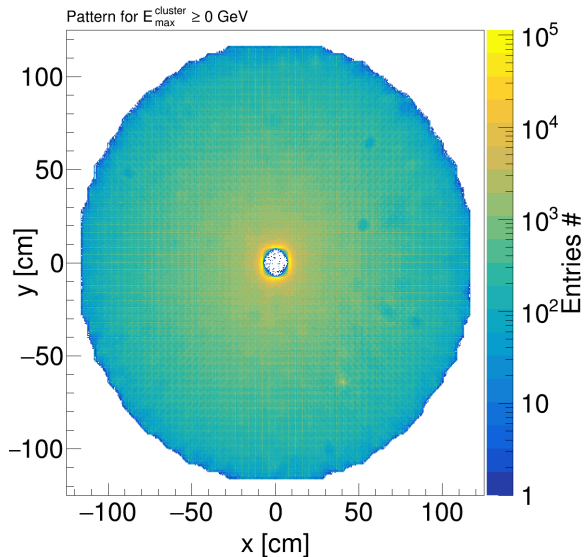
QC per rings

If radius divided by 5 cm, there is 24 rings

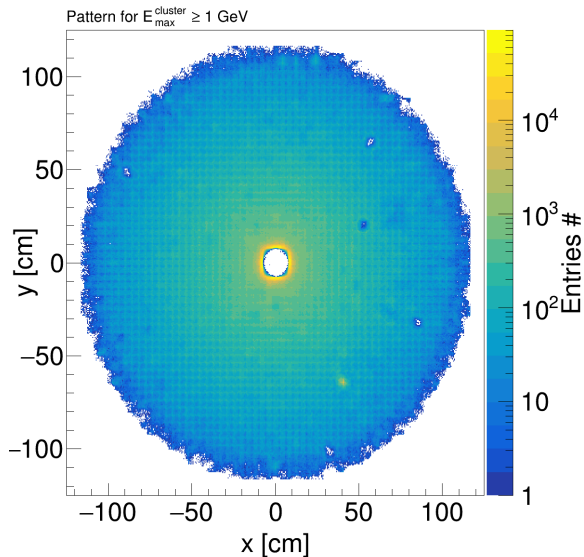
● Ring 23



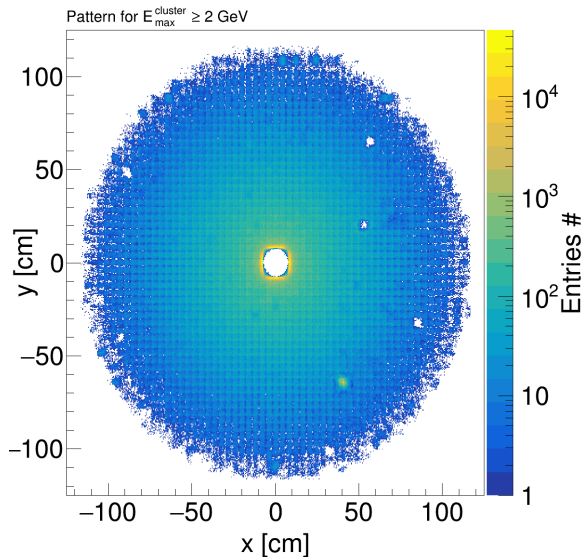
FCAL pattern



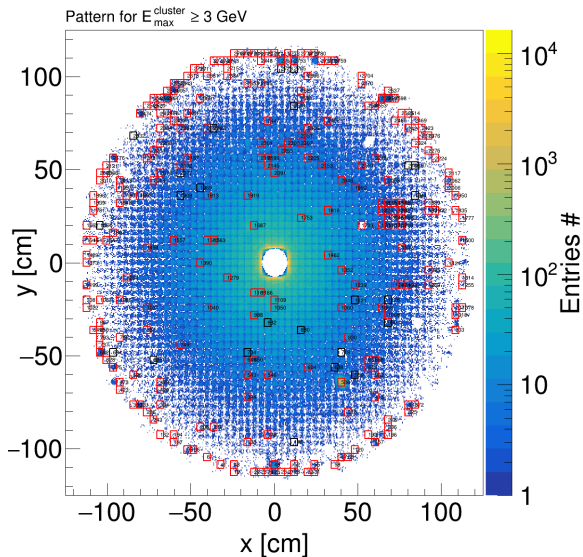
FCAL pattern



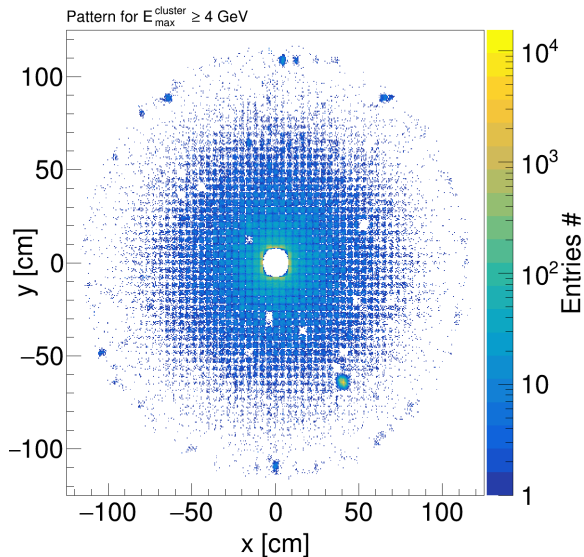
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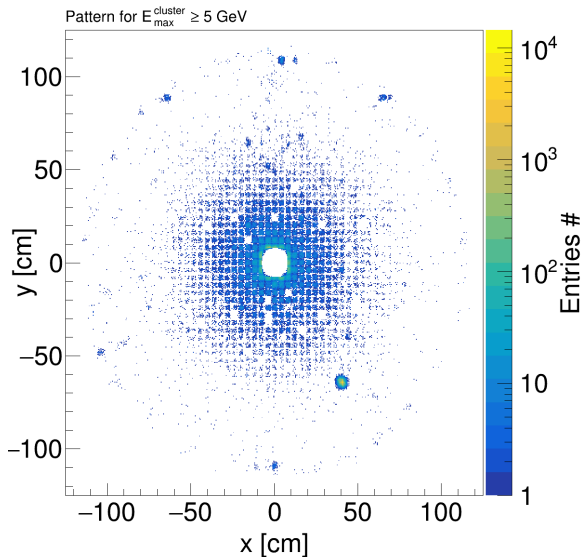
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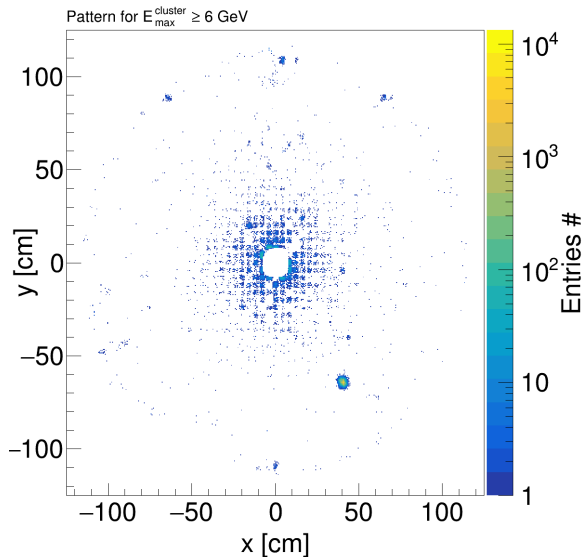
FCAL pattern



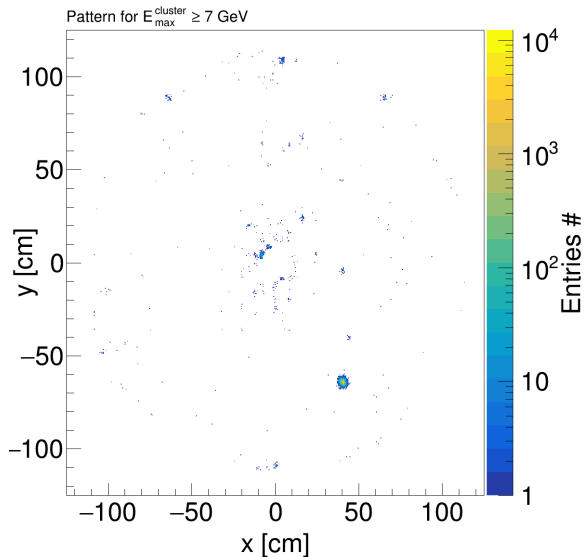
FCAL pattern



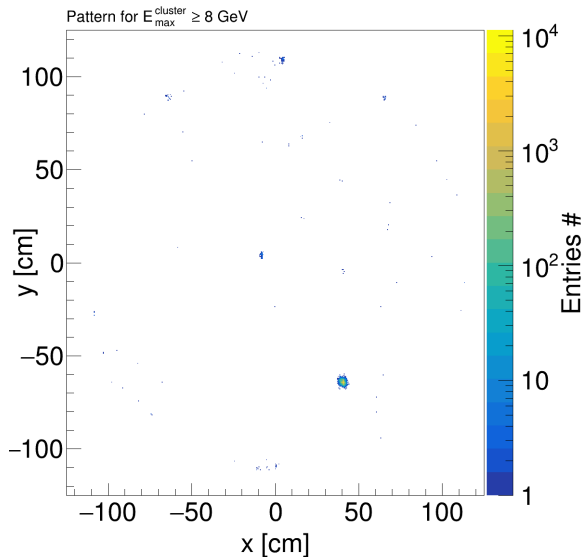
FCAL pattern



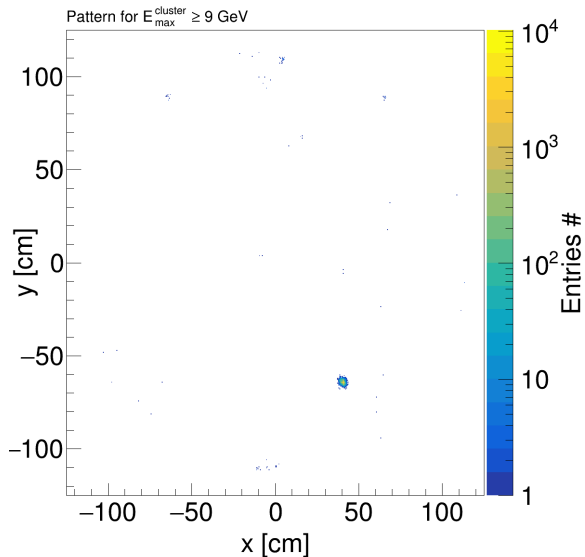
FCAL pattern



FCAL pattern



FCAL pattern



FCAL pattern

