

FCAL energy calibration QC

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Thomas Jefferson National Accelerator Facility

for the GlueX Collaboration

period18

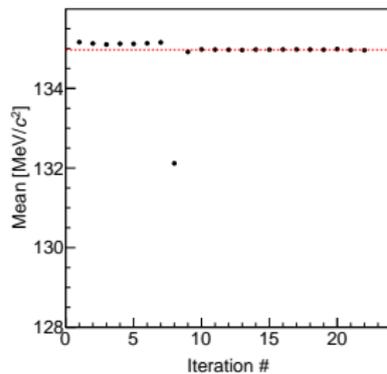


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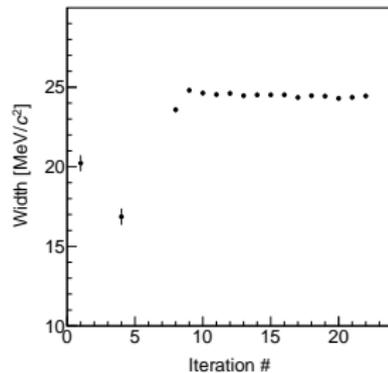
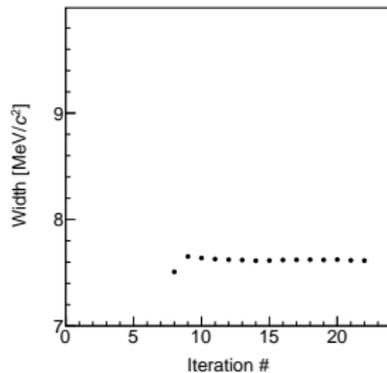
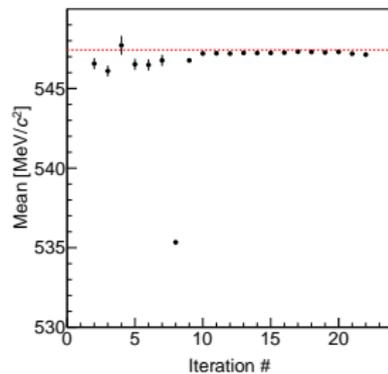
- 1 Overall QC
- 2 QC per rings

Overall QC vs iteration

• π^0

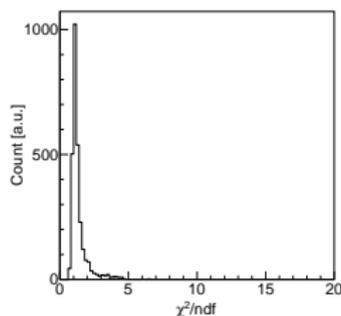


• η

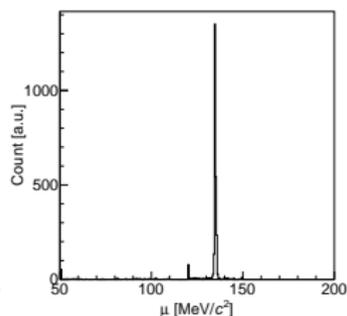


Overall QC, summary distributions

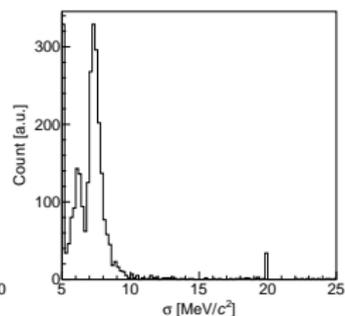
● χ^2 distribution



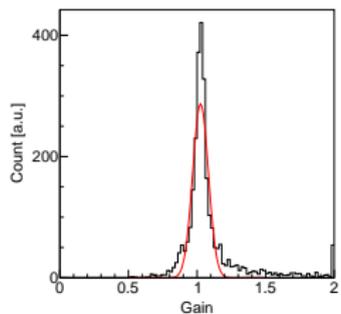
● Fitted peak distribution



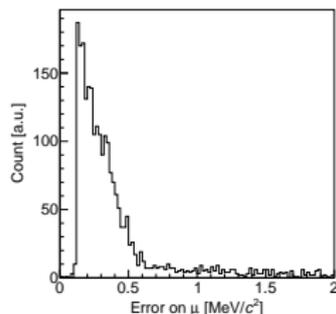
● Fitted width distribution



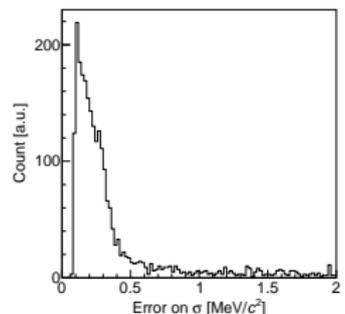
● Gain distribution



● Fitted peak error distribution

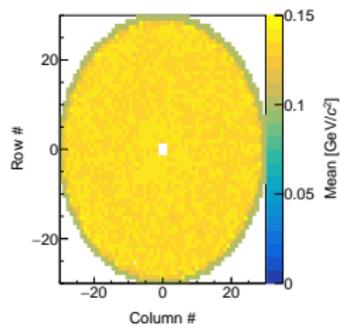


● Fitted width error distribution

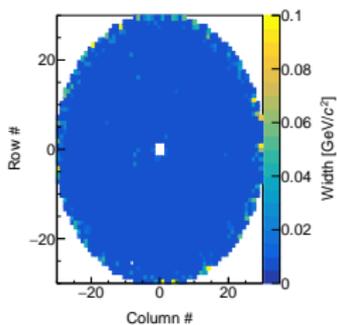


Overall QC, summary maps

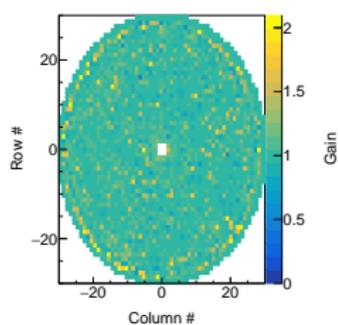
● Fitted peak map



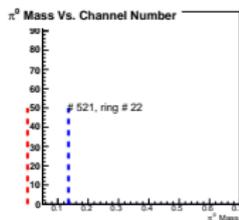
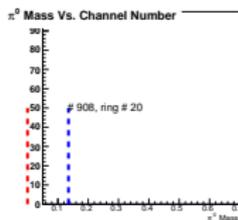
● Fitted width map



● Gain map



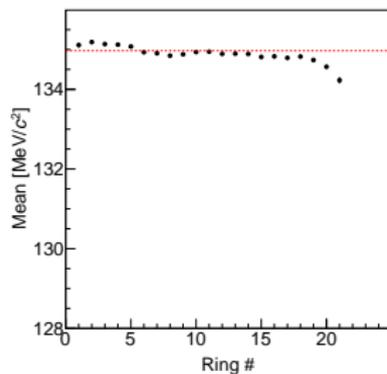
Overall QC, bad channels



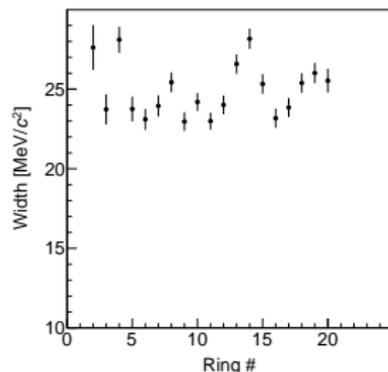
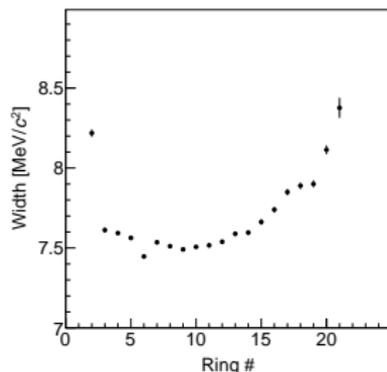
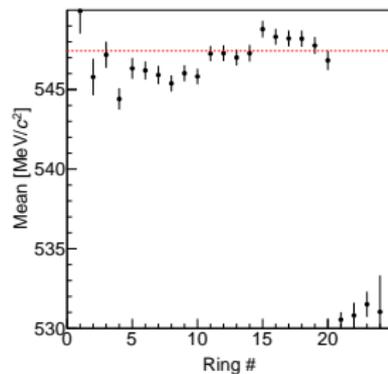
QC per rings

If radius divided by 5 cm, there is 24 rings

● π^0



● η



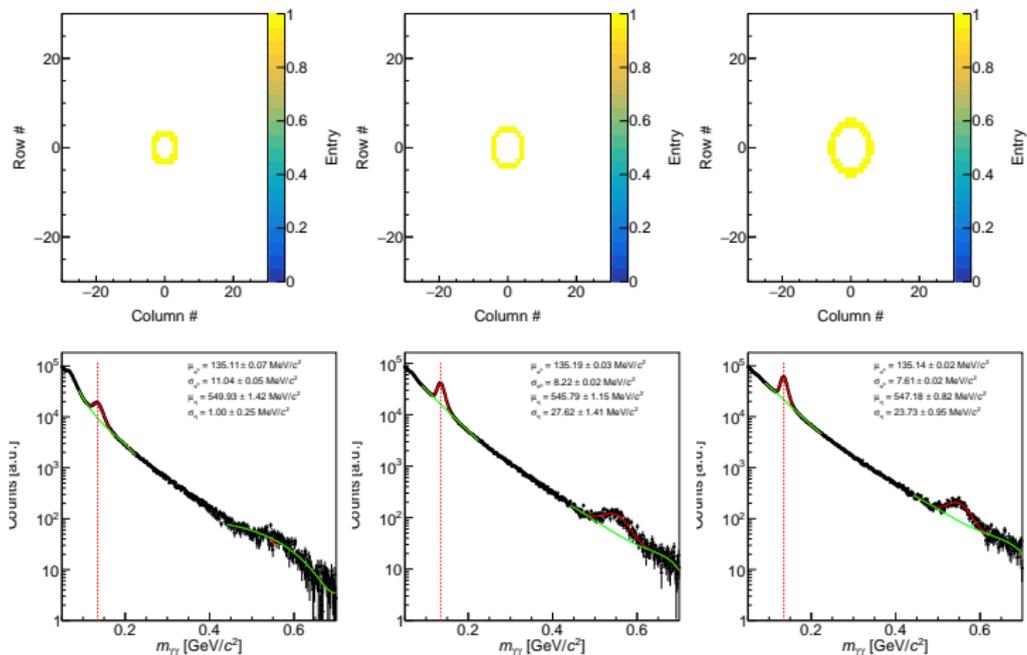
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 1

● Ring 2

● Ring 3



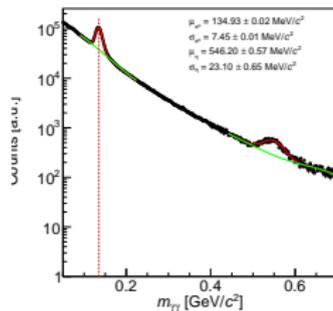
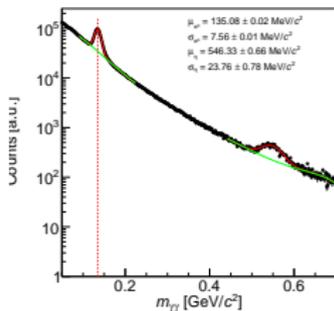
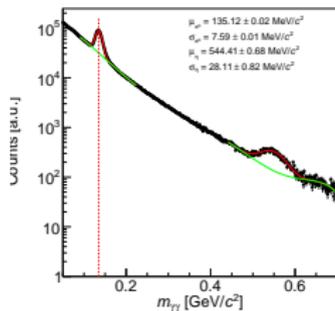
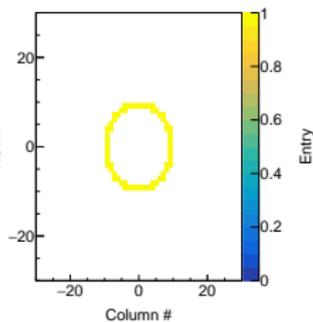
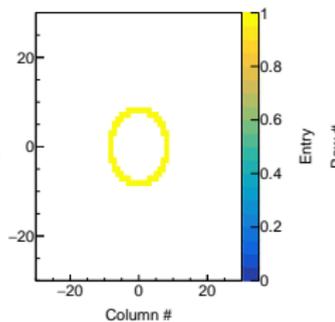
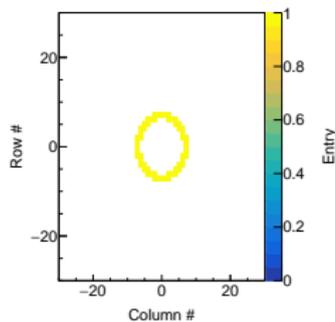
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 4

● Ring 5

● Ring 6



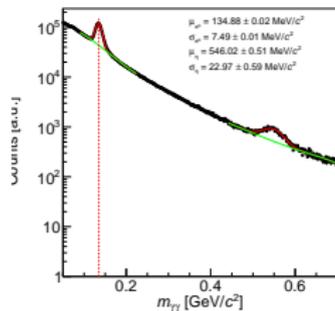
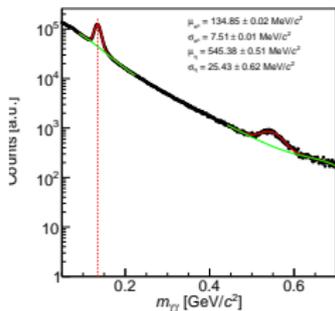
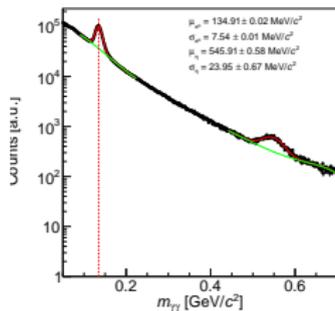
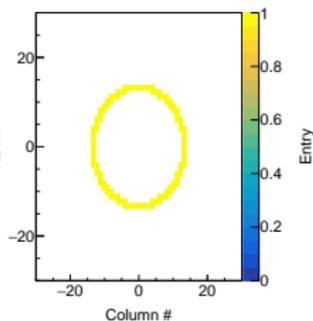
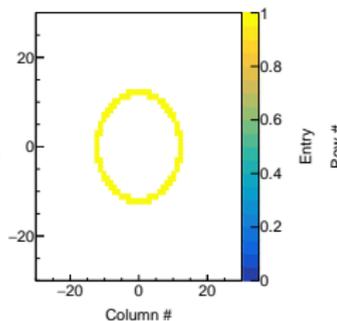
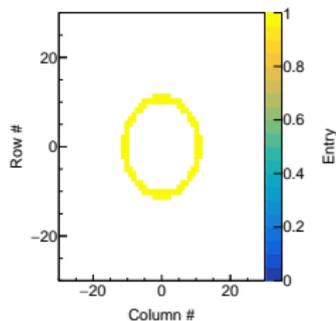
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 7

● Ring 8

● Ring 9



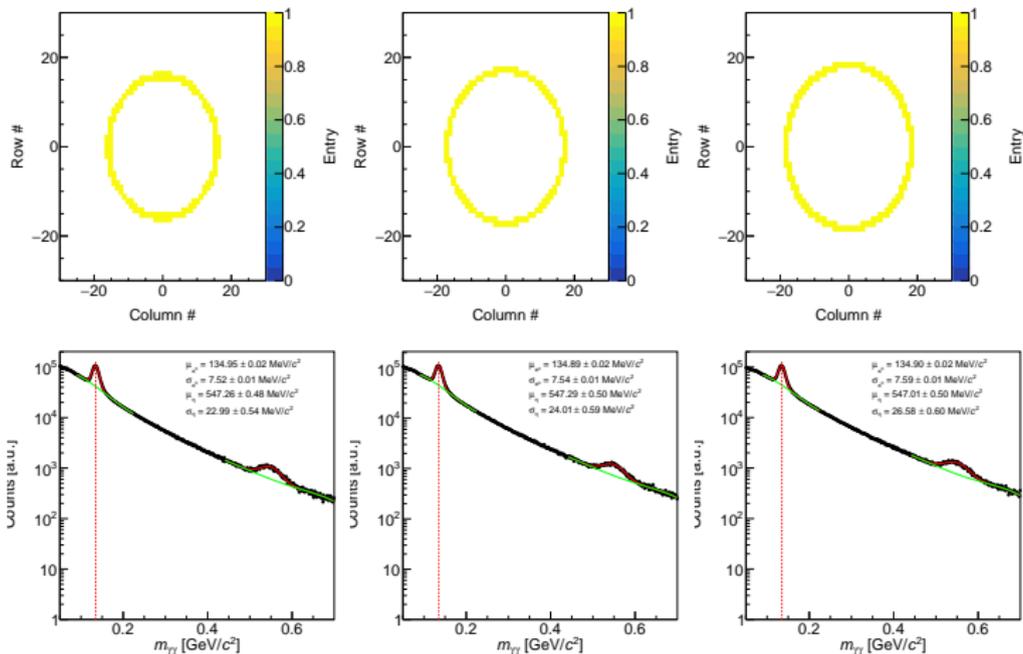
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 11

● Ring 12

● Ring 13



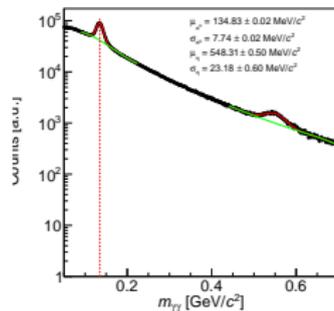
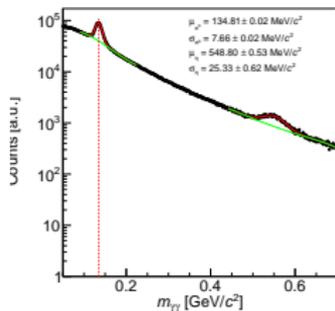
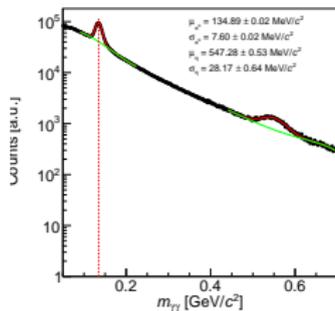
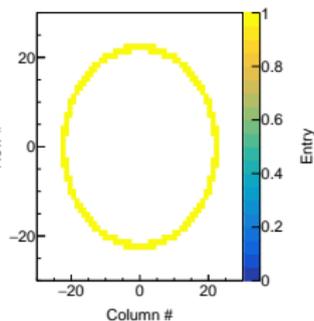
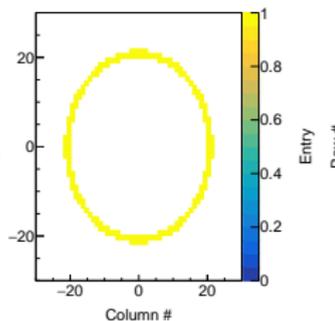
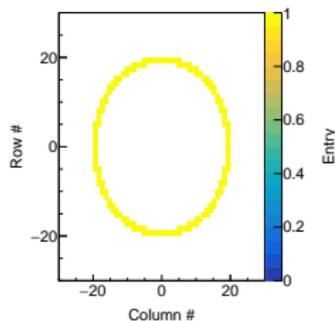
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 14

● Ring 15

● Ring 16



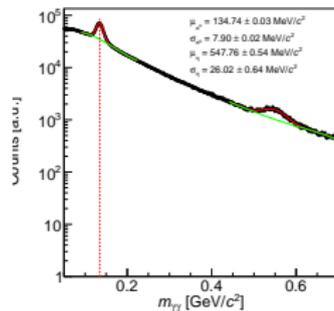
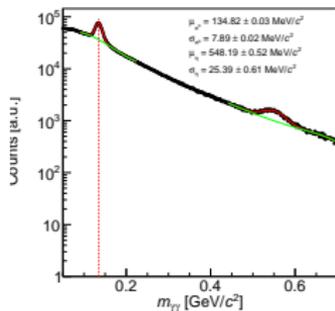
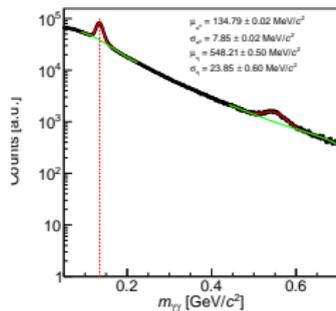
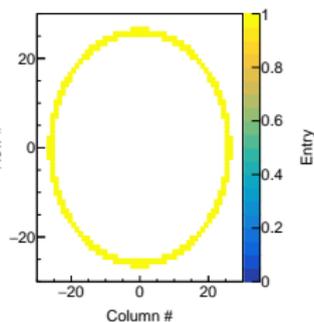
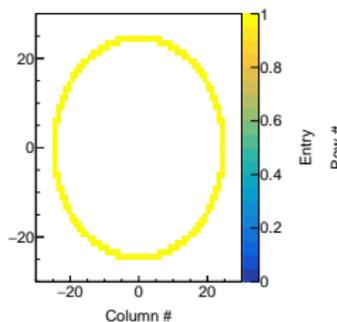
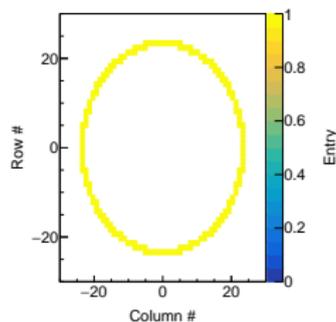
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 17

● Ring 18

● Ring 19



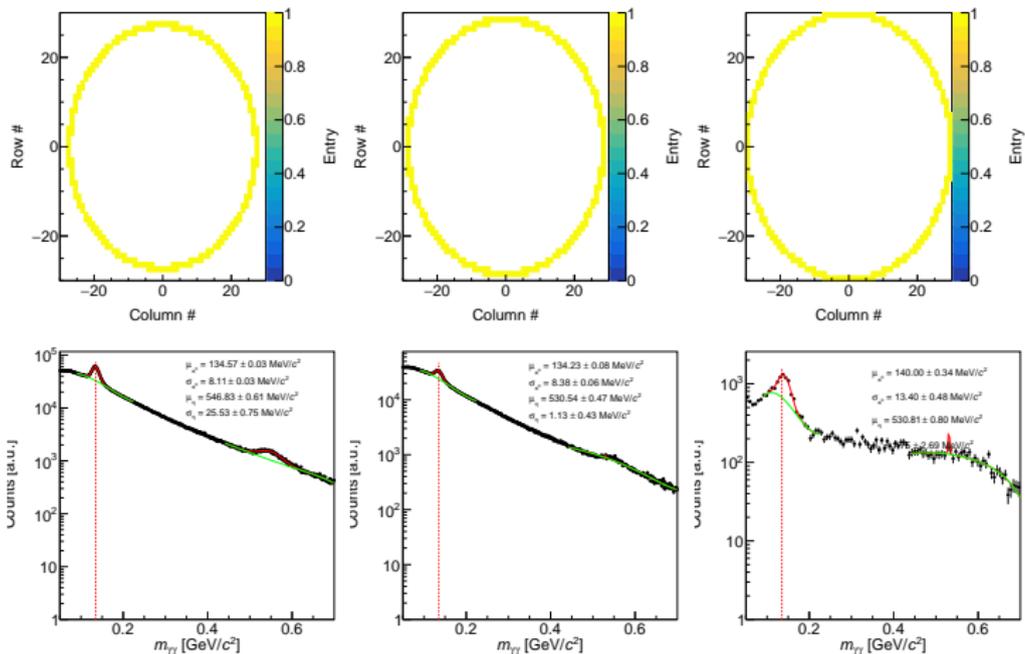
QC per rings

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

