

FCAL energy calibration QC

Igal Jaeglé

Thomas Jefferson National Accelerator Facility

for the GlueX Collaboration

bepriexp3method0period0

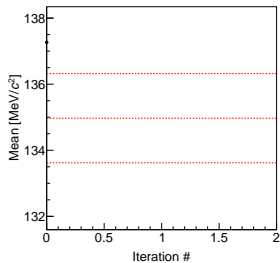


Table of contents

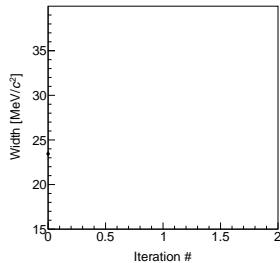
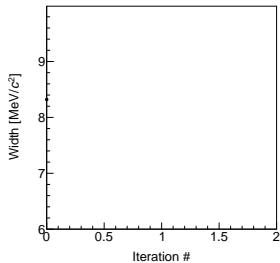
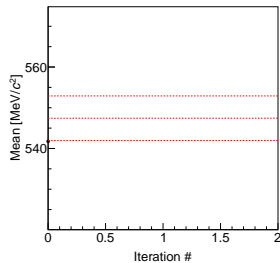
- 1 Overall QC
- 2 QC per rings

Overall QC vs iteration

• π^0

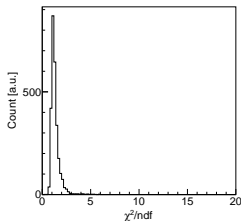


• η

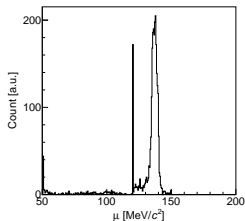


Overall QC, summary distributions

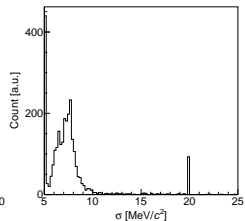
● χ^2 distribution



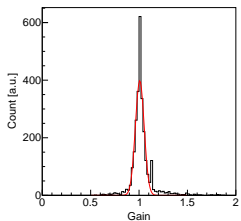
● Fitted peak distribution



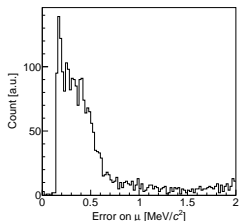
● Fitted width distribution



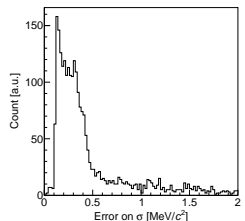
● Gain distribution



● Fitted peak error distribution

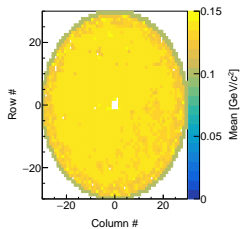


● Fitted width error distribution

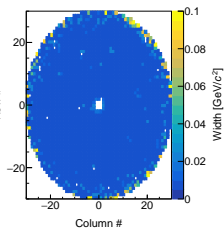


Overall QC, summary maps

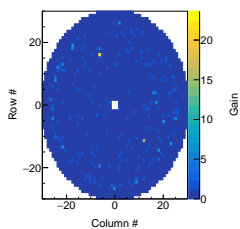
● Fitted peak map



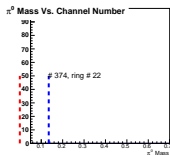
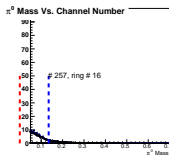
● Fitted width map



● Gain map



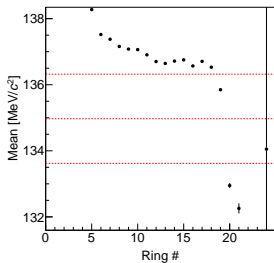
Overall QC, bad channels



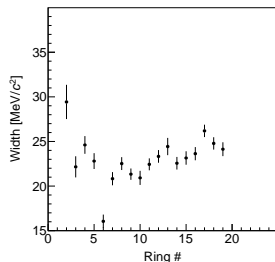
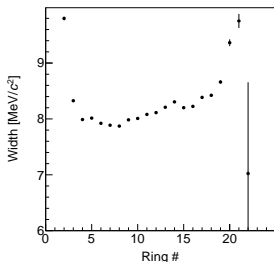
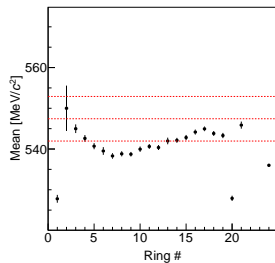
QC per rings

If radius divided by 5 cm, there is 24 rings

● π^0



● η



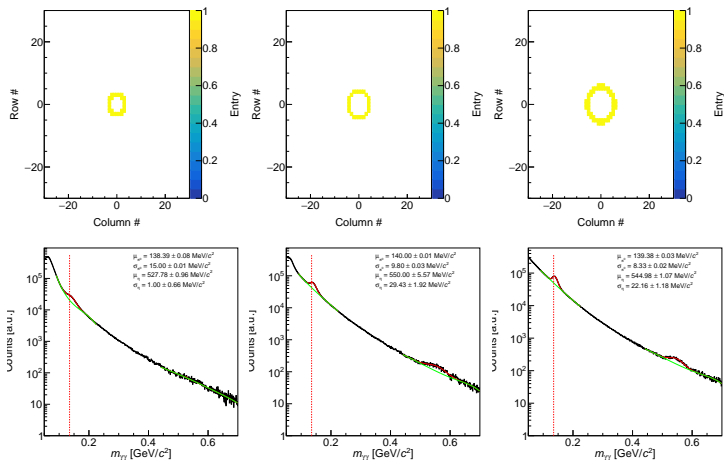
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 1

● Ring 2

● Ring 3



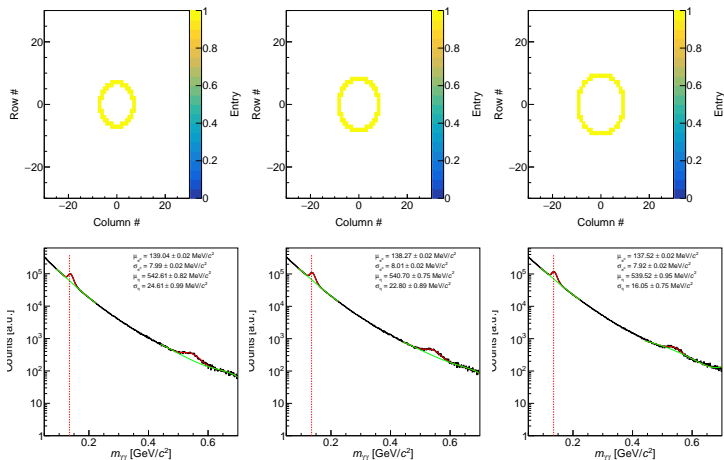
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 4

● Ring 5

● Ring 6



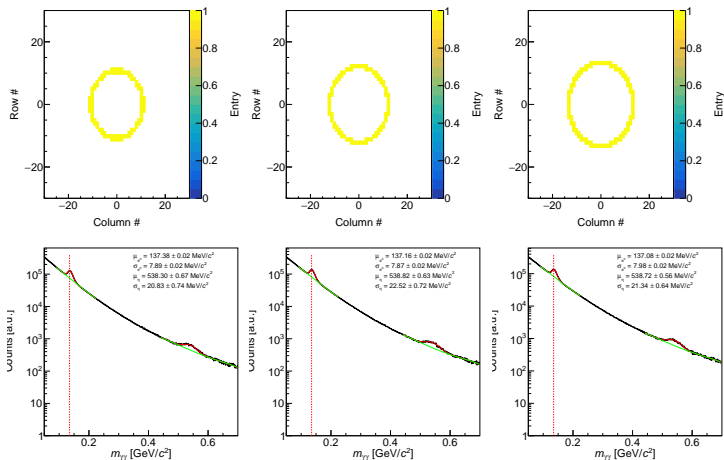
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 7

● Ring 8

● Ring 9



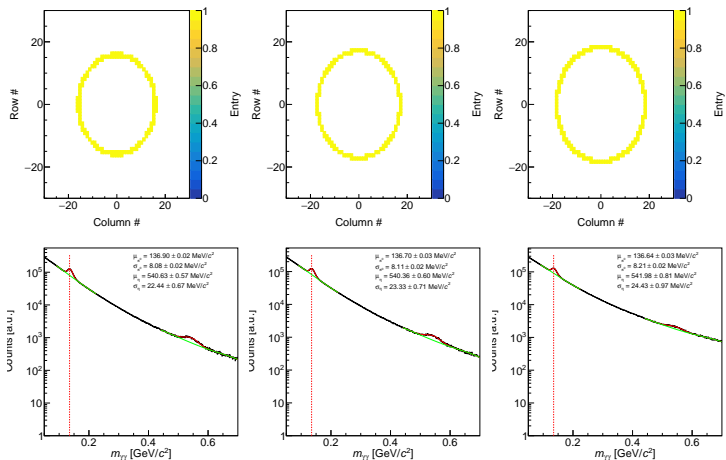
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 11

● Ring 12

● Ring 13



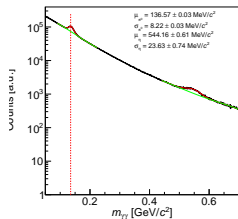
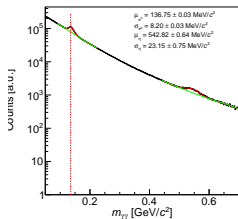
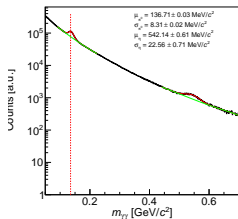
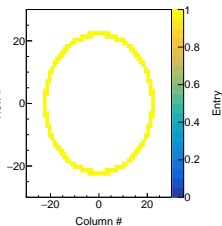
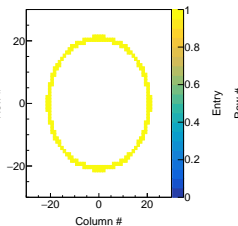
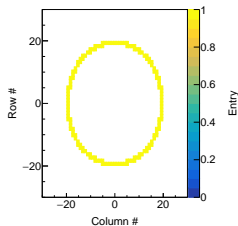
QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 14

● Ring 15

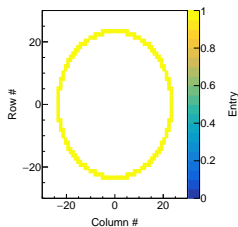
● Ring 16



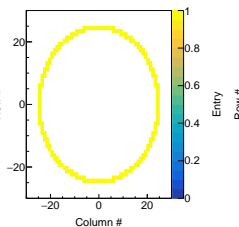
QC per rings

If radius divided by 5 cm, there is 24 rings

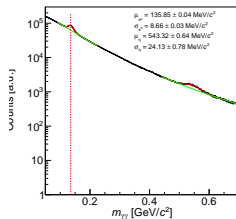
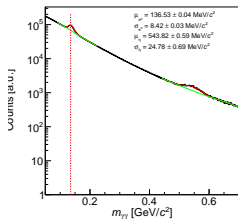
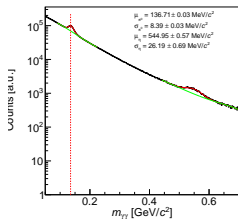
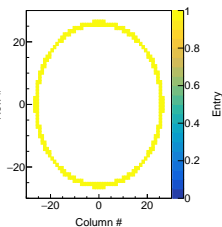
● Ring 17



● Ring 18



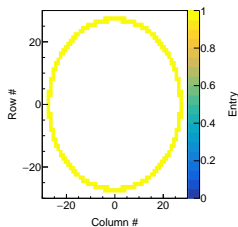
● Ring 19



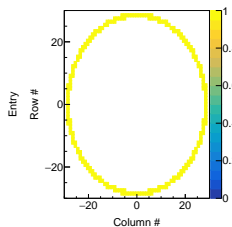
QC per rings

If radius divided by 5 cm, there is 24 rings

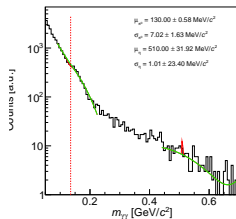
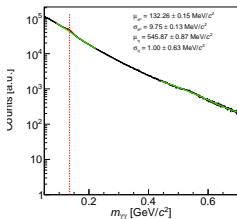
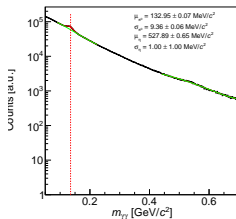
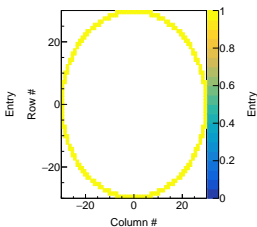
● Ring 20



● Ring 21



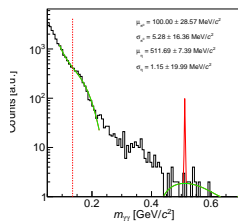
● Ring 22



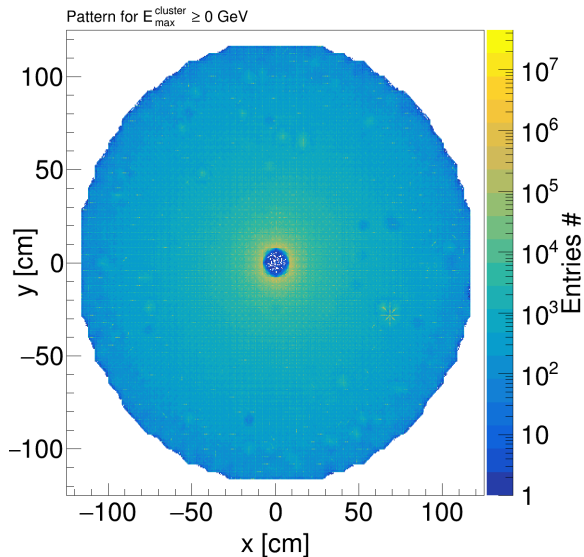
QC per rings

If radius divided by 5 cm, there is 24 rings

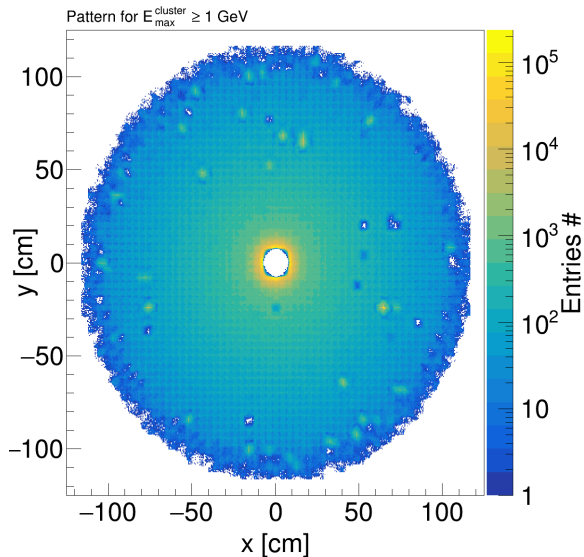
- Ring 23



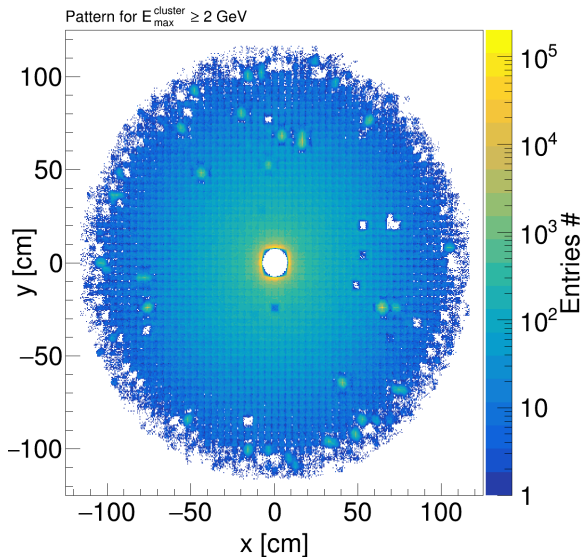
FCAL pattern



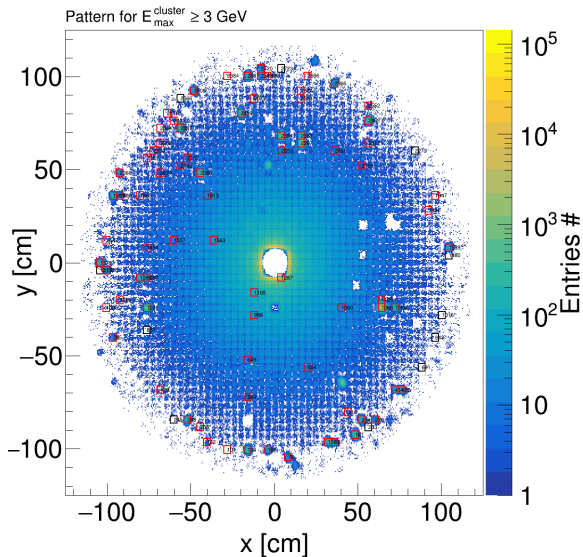
FCAL pattern



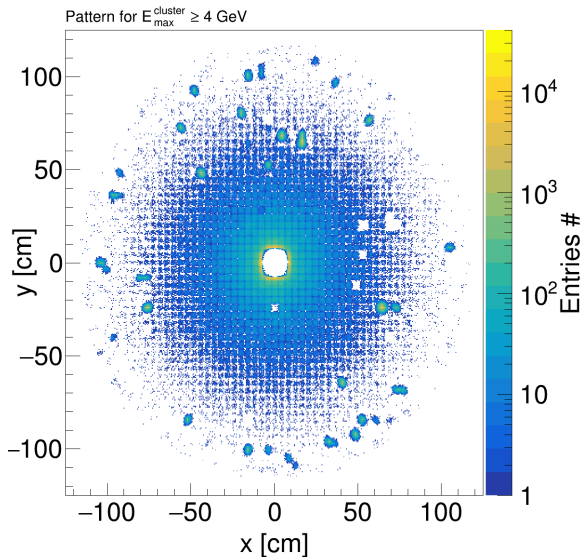
FCAL pattern



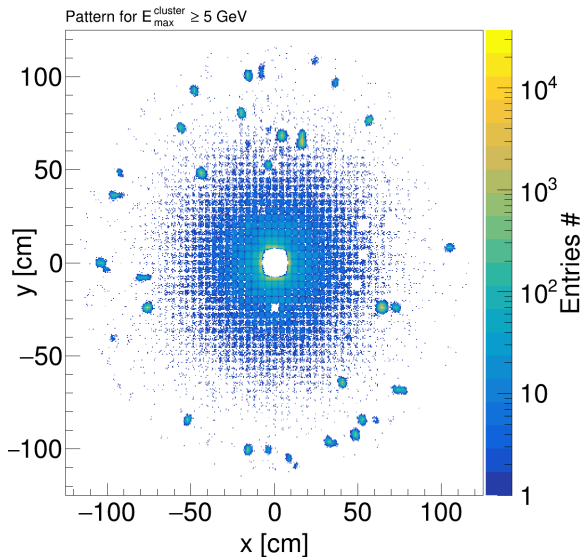
FCAL pattern



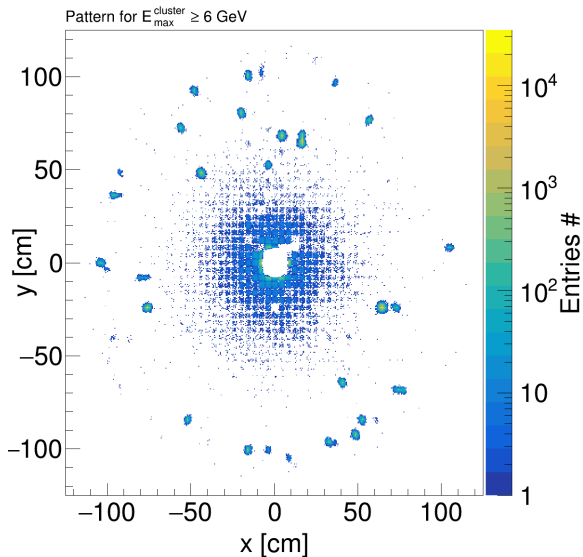
FCAL pattern



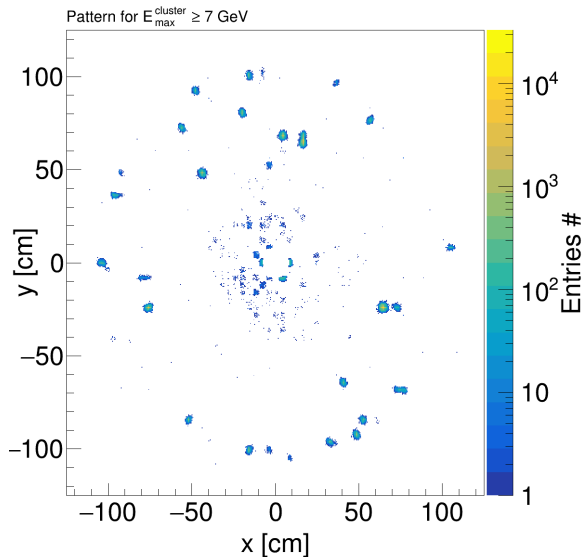
FCAL pattern



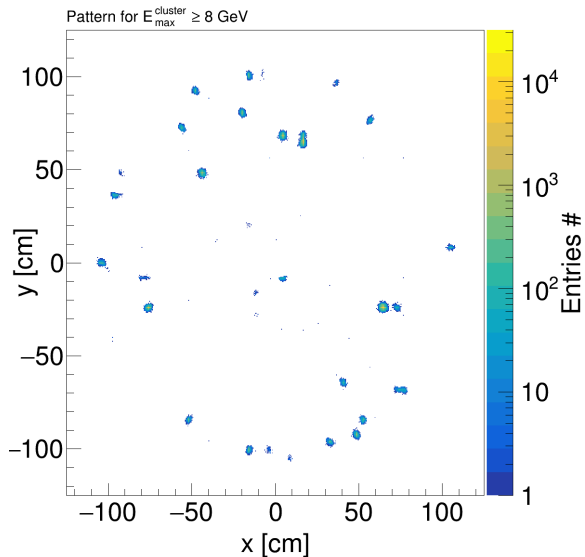
FCAL pattern



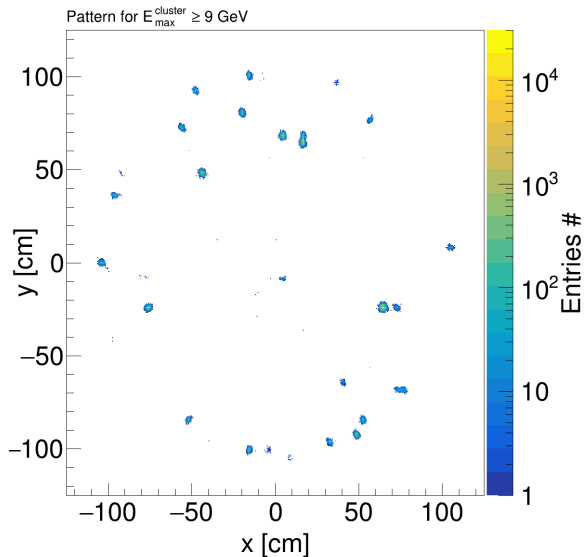
FCAL pattern



FCAL pattern



FCAL pattern



FCAL pattern

