

# FCAL energy calibration QC

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for the GlueX Collaboration

hesrcmethod0period7

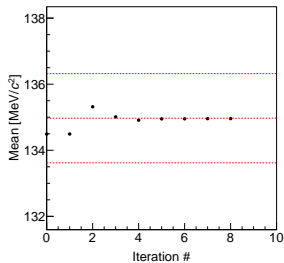


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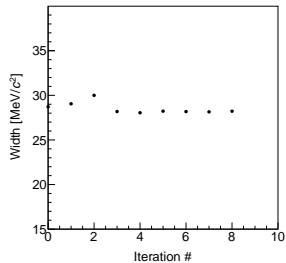
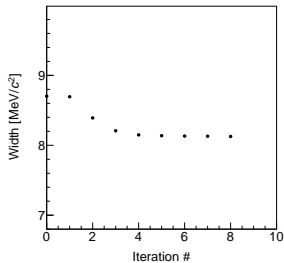
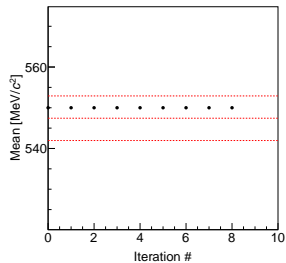
- 1 Overall QC
- 2 QC per rings

# Overall QC vs iteration

●  $\pi^0$

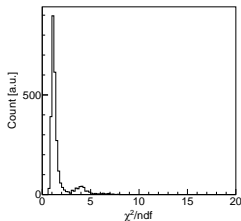


●  $\eta$

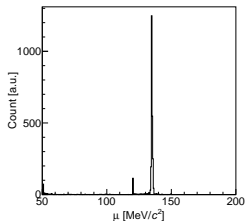


# Overall QC, summary distributions

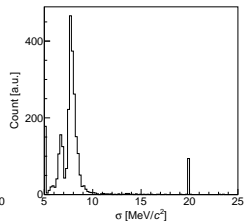
●  $\chi^2$  distribution



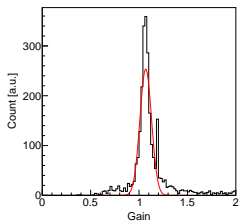
● Fitted peak distribution



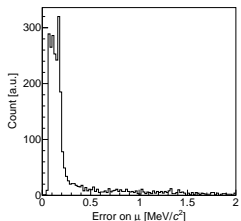
● Fitted width distribution



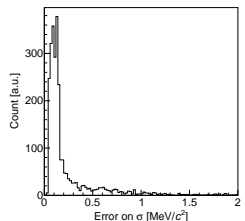
● Gain distribution



● Fitted peak error distribution

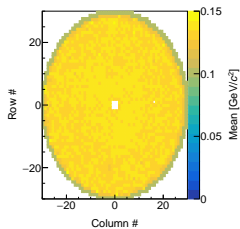


● Fitted width error distribution

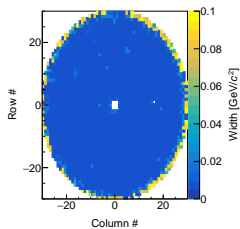


# Overall QC, summary maps

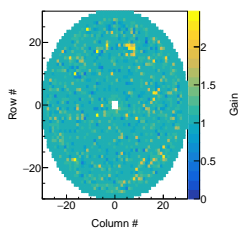
● Fitted peak map



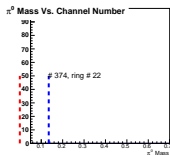
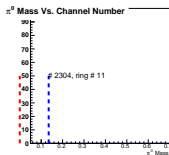
● Fitted width map



● Gain map



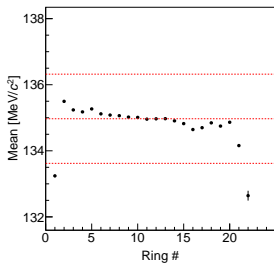
# Overall QC, bad channels



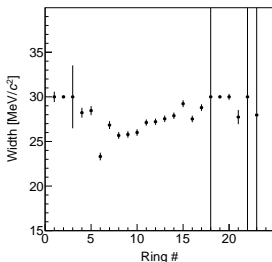
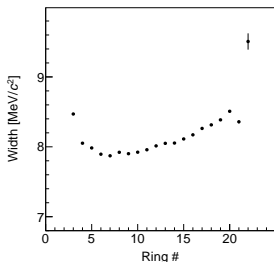
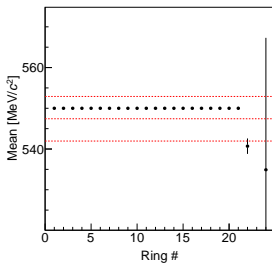
# QC per rings

If radius divided by 5 cm, there is 24 rings

●  $\pi^0$



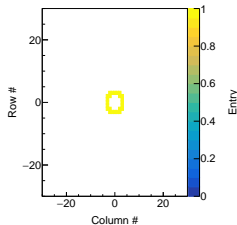
●  $\eta$



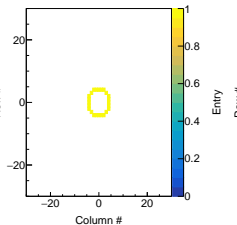
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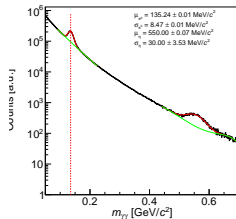
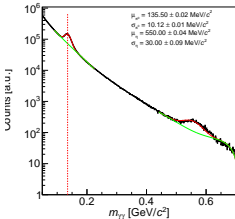
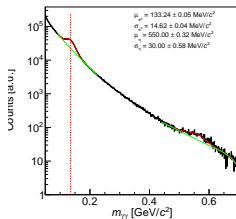
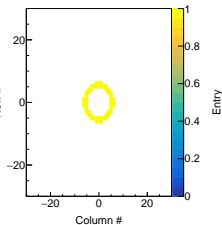
● Ring 1



● Ring 2



● Ring 3

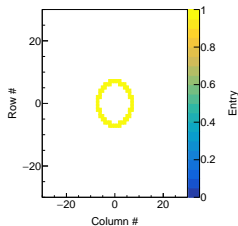




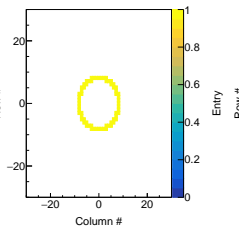
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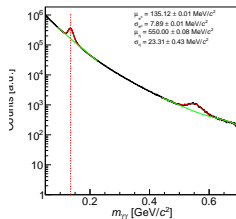
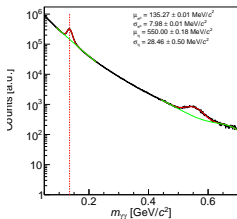
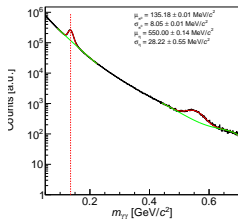
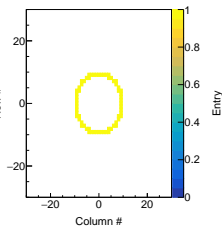
● Ring 4



● Ring 5



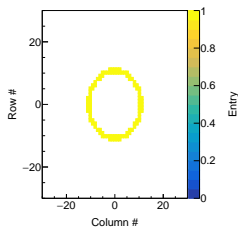
● Ring 6



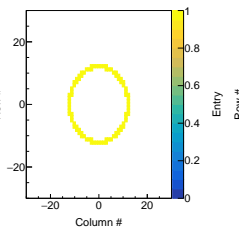
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If radius divided by 5 cm, there is 24 rings

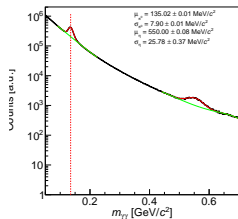
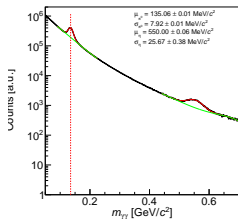
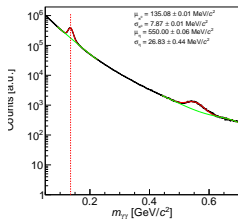
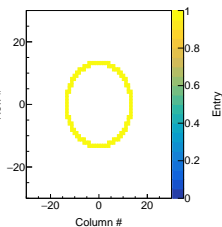
● Ring 7



● Ring 8



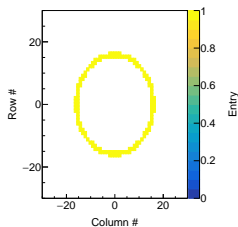
● Ring 9



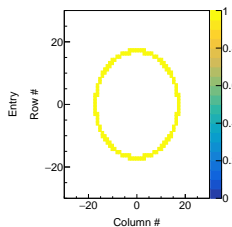
# QC per rings

If radius divided by 5 cm, there is 24 rings

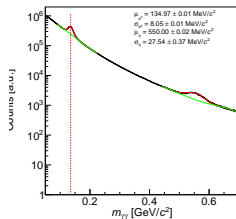
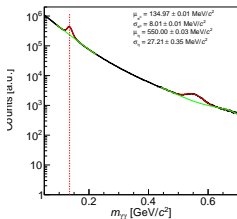
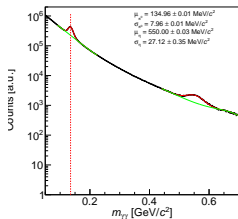
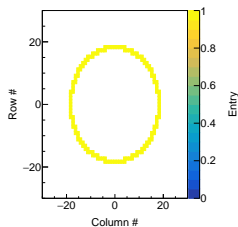
● Ring 11



● Ring 12



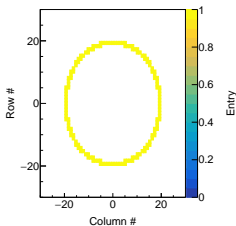
● Ring 13



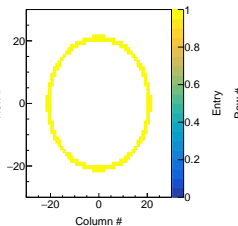
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If radius divided by 5 cm, there is 24 rings

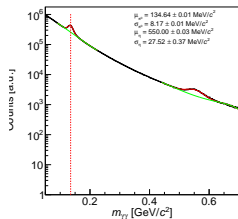
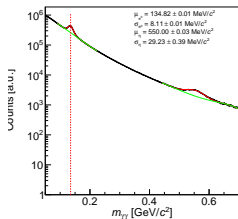
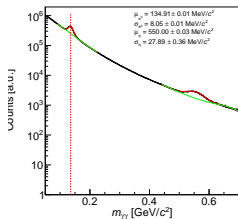
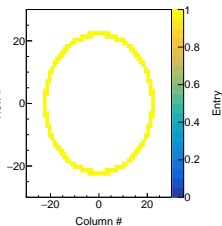
● Ring 14



● Ring 15



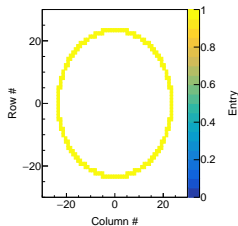
● Ring 16



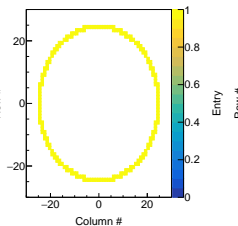
# QC per rings

If radius divided by 5 cm, there is 24 rings

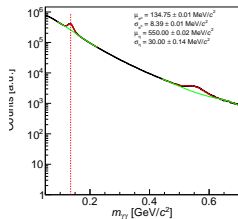
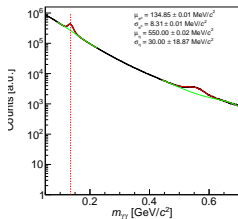
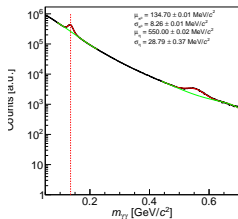
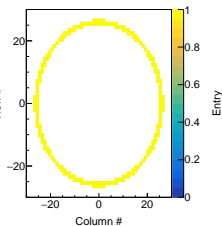
● Ring 17



● Ring 18



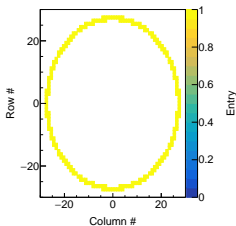
● Ring 19



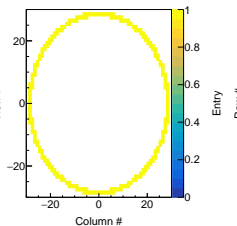
# QC per rings

If radius divided by 5 cm, there is 24 rings

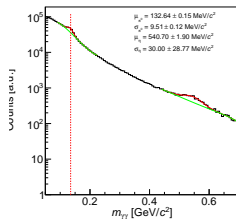
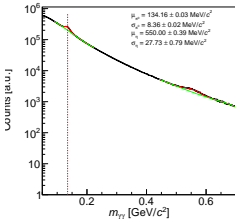
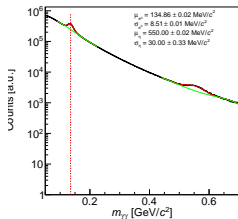
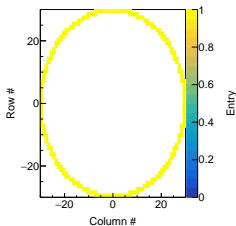
● Ring 20



● Ring 21



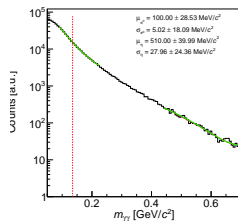
● Ring 22



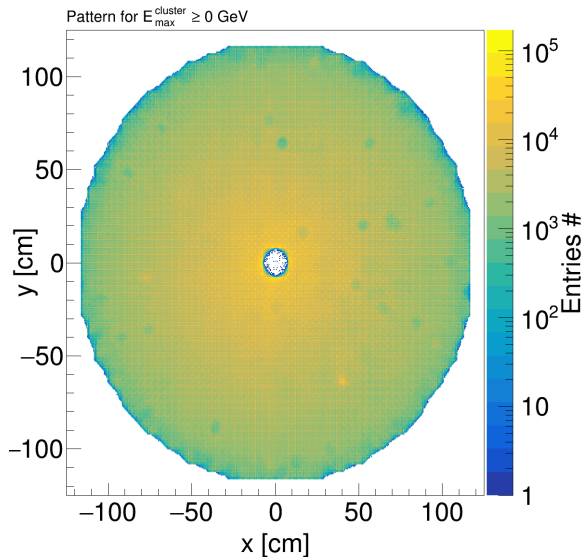
# QC per rings

If radius divided by 5 cm, there is 24 rings

● Ring 23

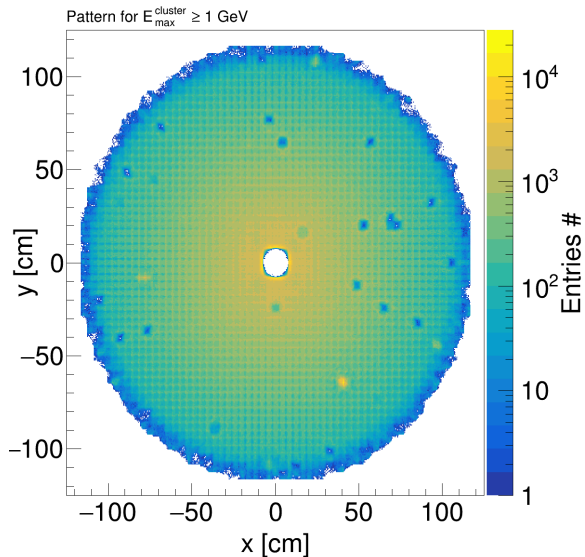


# FCAL pattern

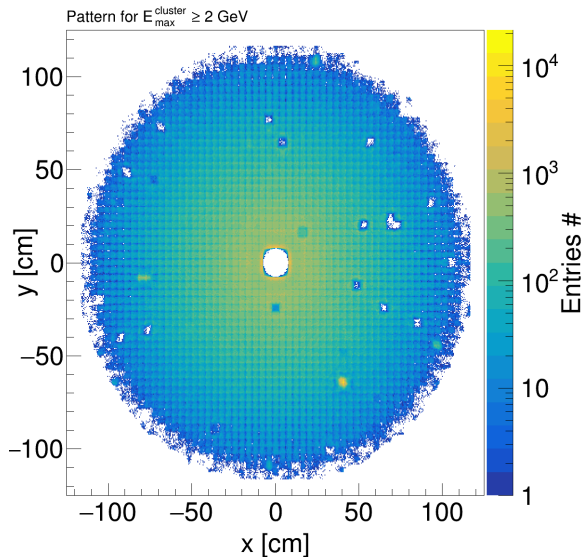




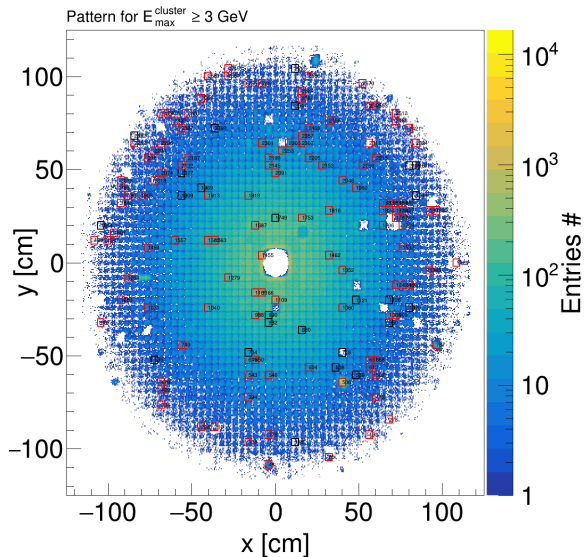
# FCAL pattern



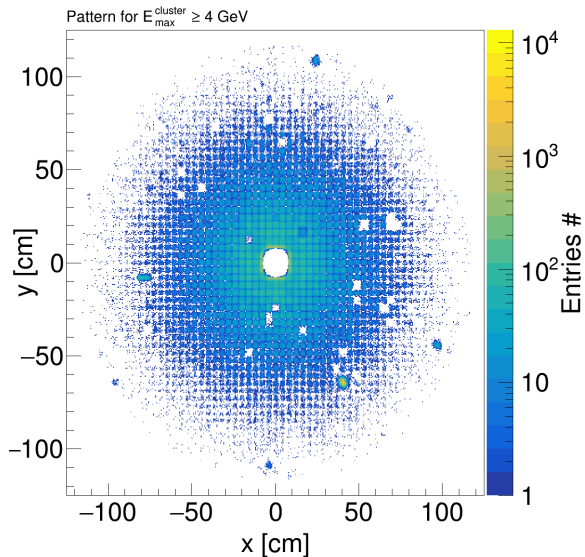
# FCAL pattern



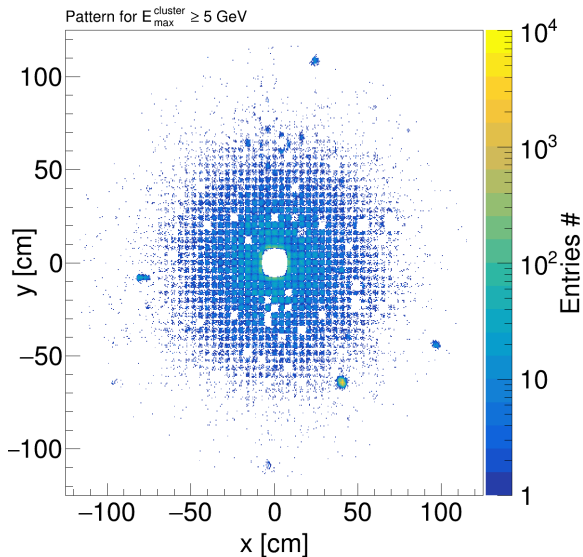
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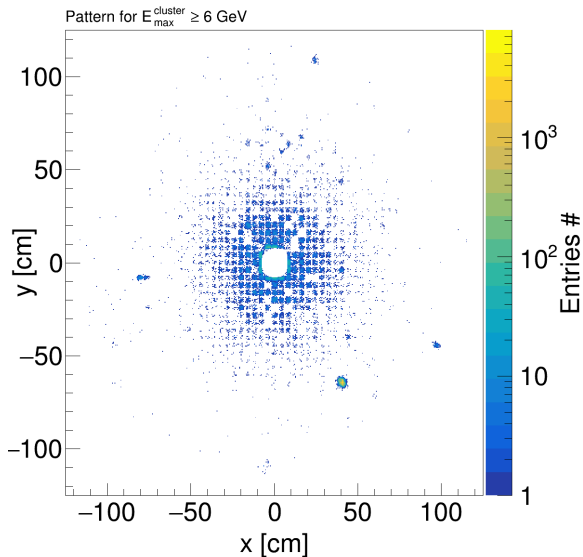
# FCAL pattern



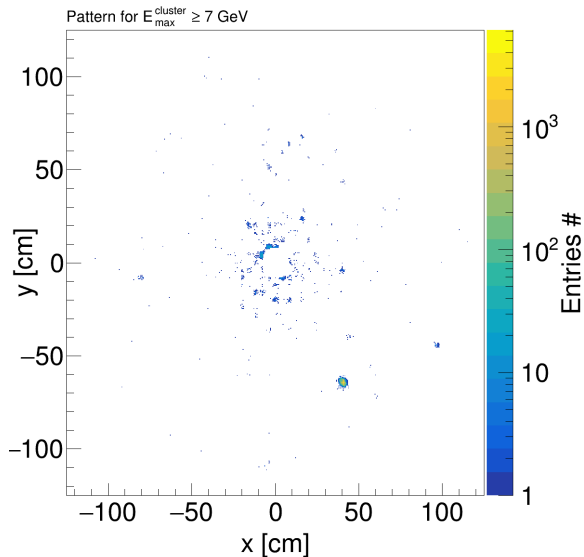
# FCAL pattern



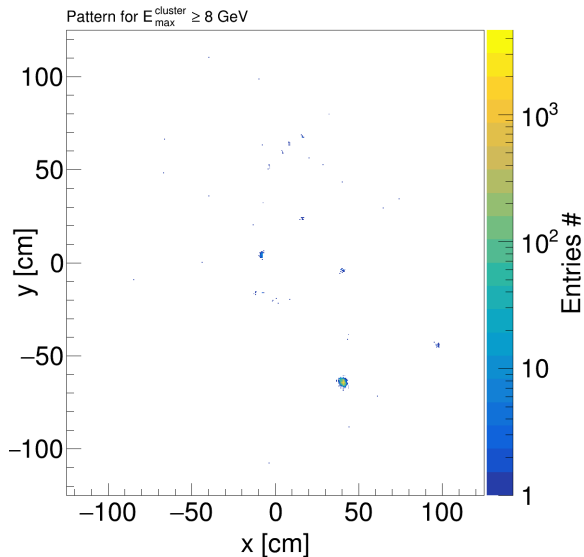
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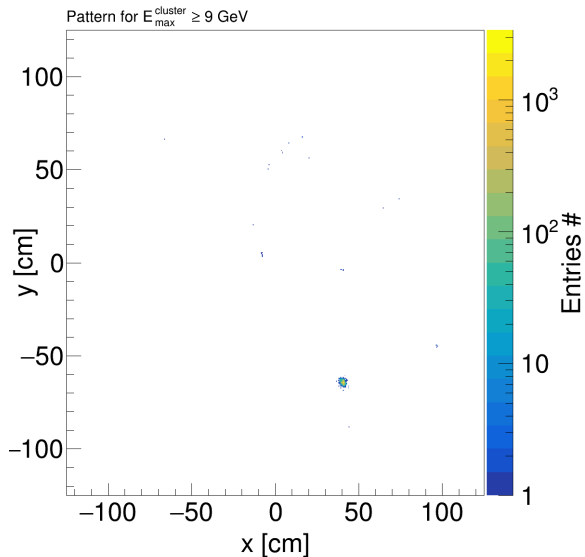


# FCAL pattern





# FCAL pattern



# FCAL pattern

