

# FCAL energy calibration QC

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for the GlueX Collaboration

phase2



# Table of contents

- 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



FIGphase2/CHECK\_aa\_im\_weighted\_canvas\_nb\_0.pdf

# QC per rings

If radius divided by 5 cm, there is 24 rings

•  $\pi^0$

•  $\eta$

# 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