

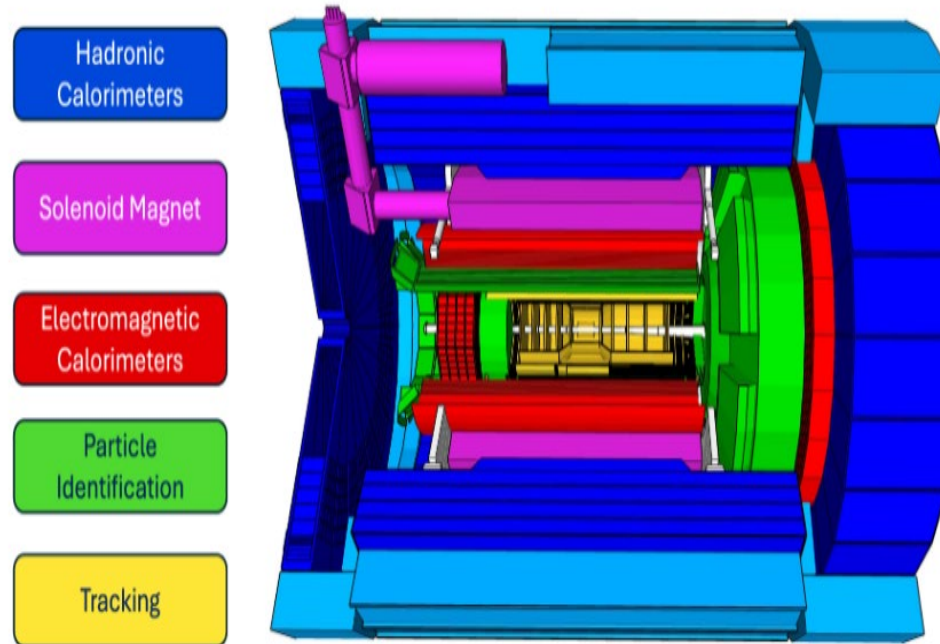
# Photon Flux/Charge Studies

Andrew Tamis (Yale University)

12/03/25

# Update

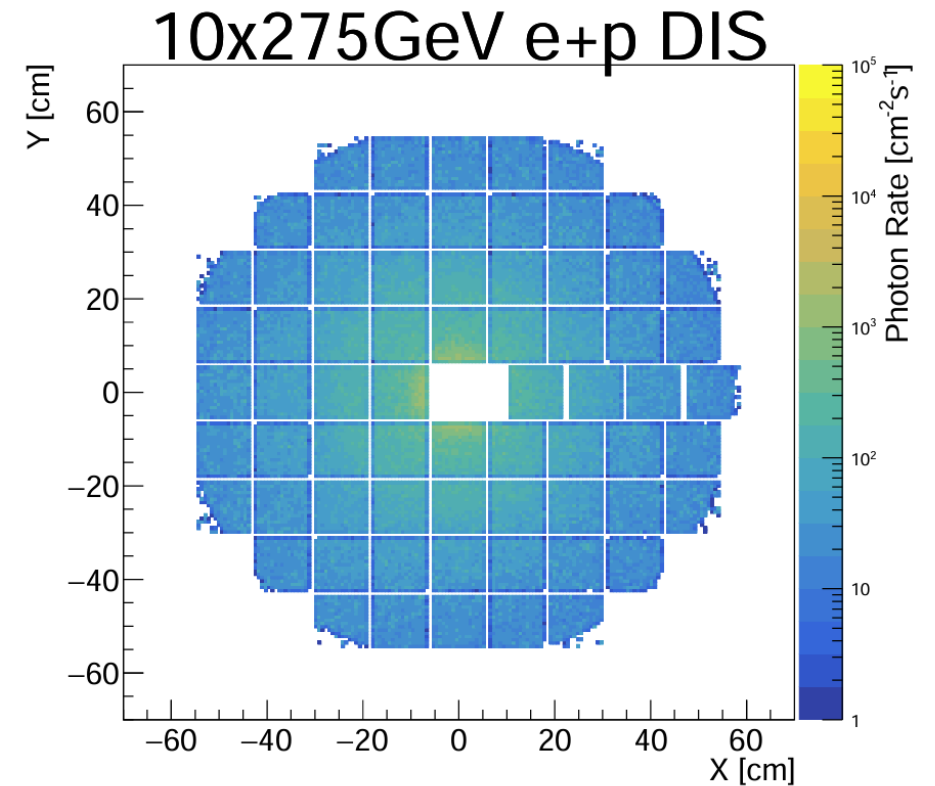
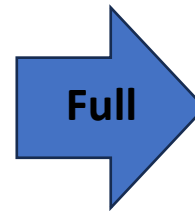
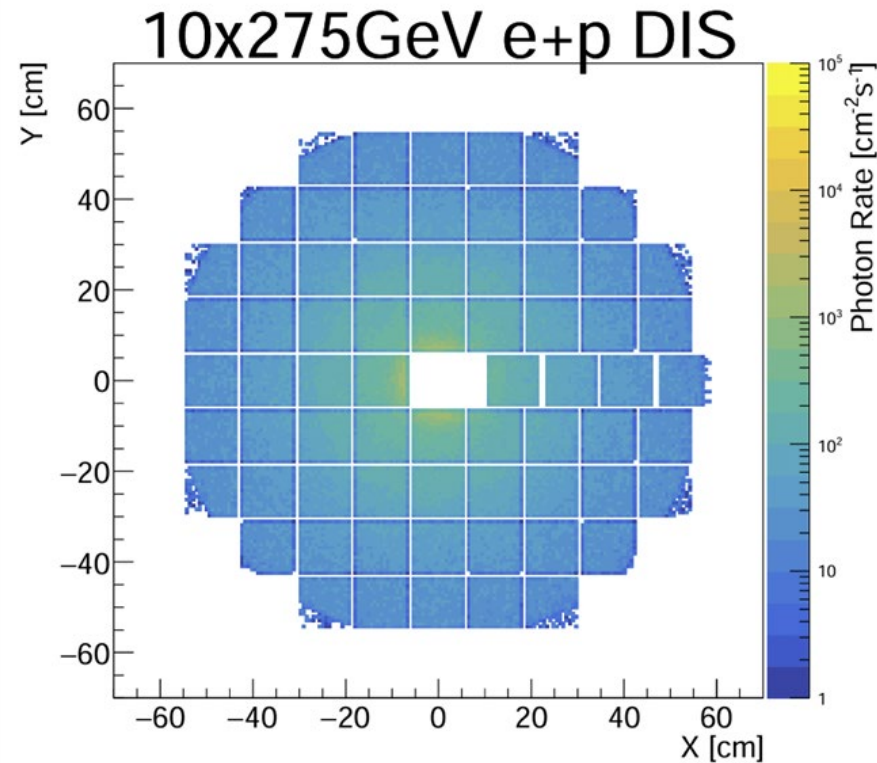
- Using irt-2.1b branch of ElCrecon
- Have included **full** geometry
- Showcasing Changes from including full ePIC geometry



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```

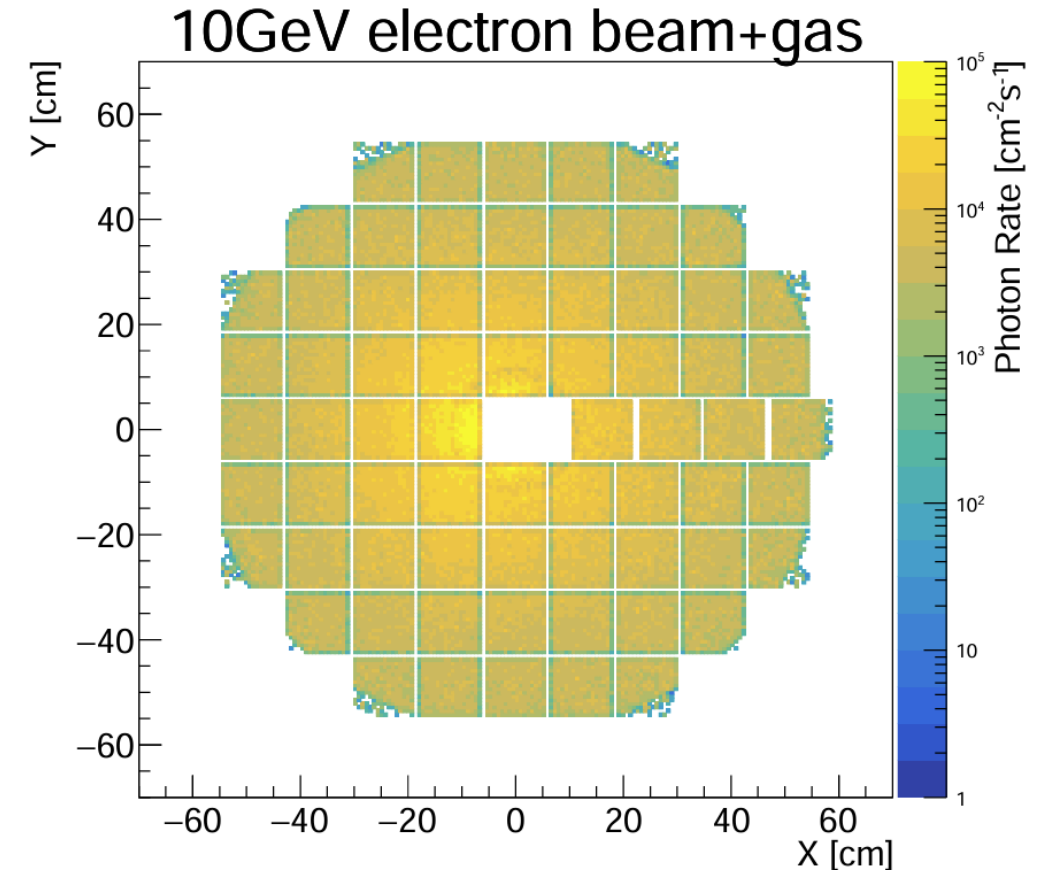
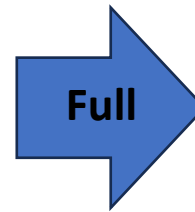
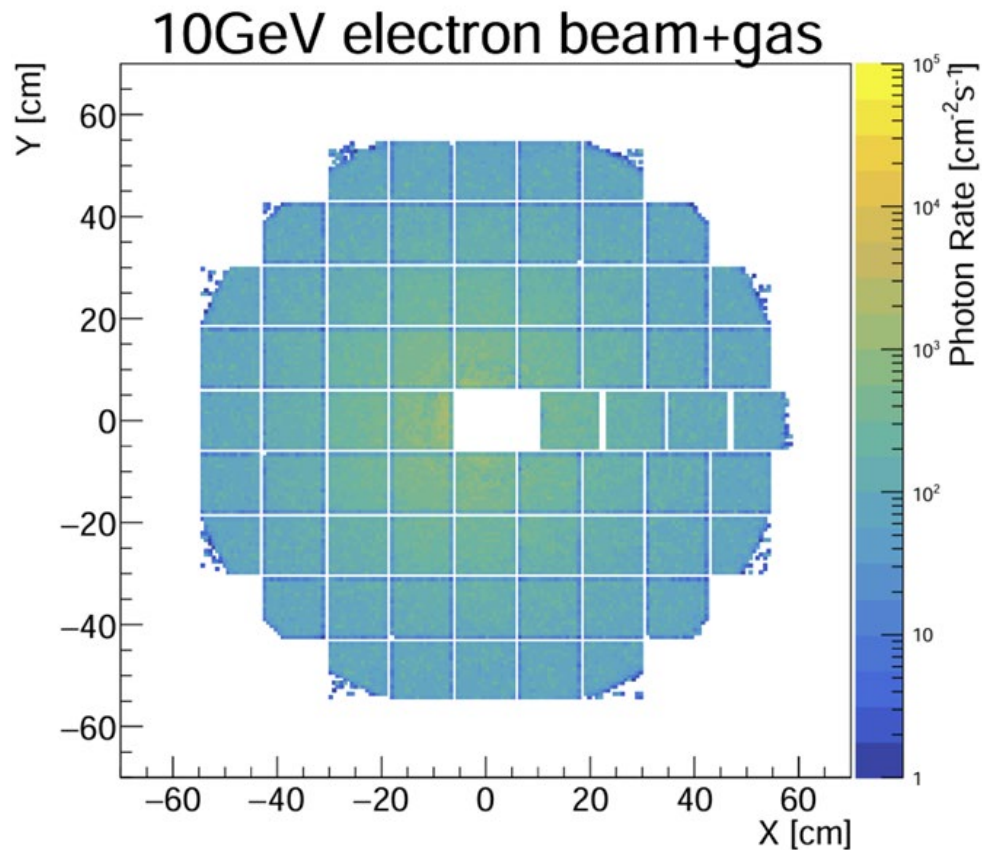
# Flux Studies - DIS

- Determined from average of 15,000 events

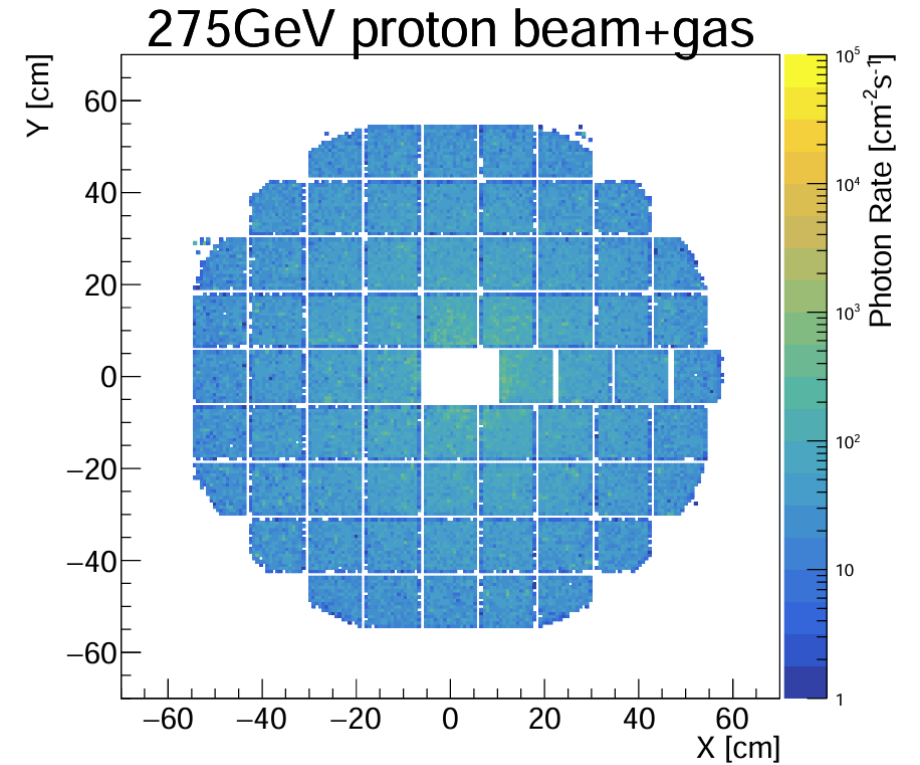
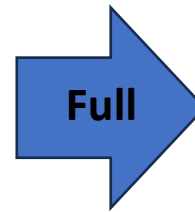
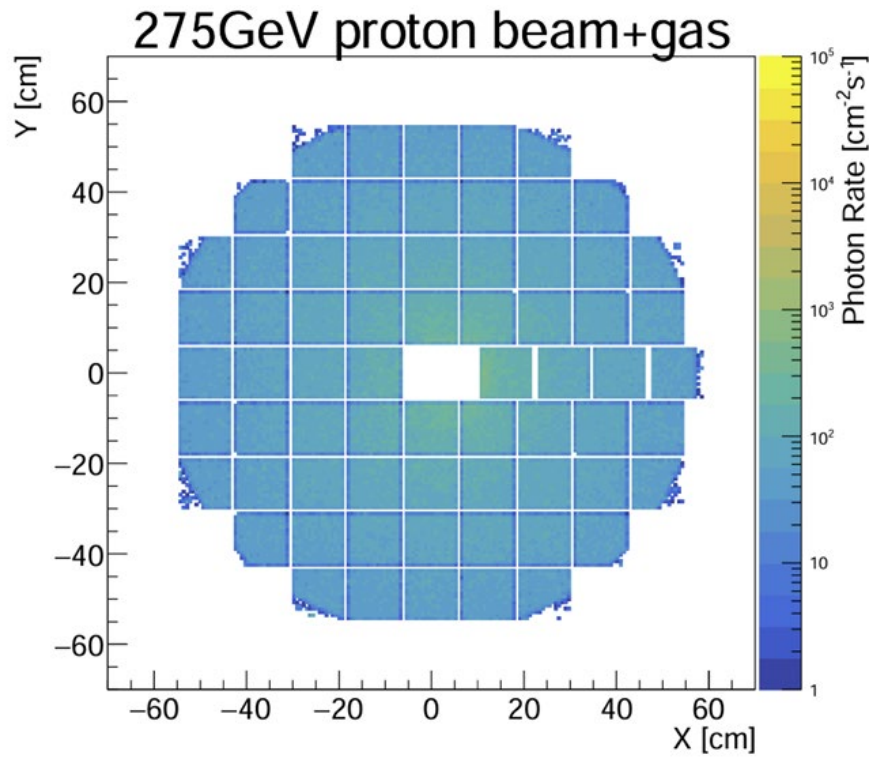


# Flux Studies – Electron Beam Gas

Determined from average of 1,000,000 events



# Flux Studies – Proton Beam Gas



# Total – One Year

- Largest update due to downstream electron beam interactions
- $10^{12} \rightarrow 10^{13}$  Photons /year /cm<sup>2</sup>

