## Primakoff photoproduction of $\pi^0$ and $\eta$ off $^{208}{\rm Pb}$

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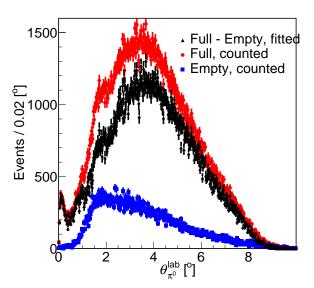
for the GlueX Collaboration

July 31, 2024



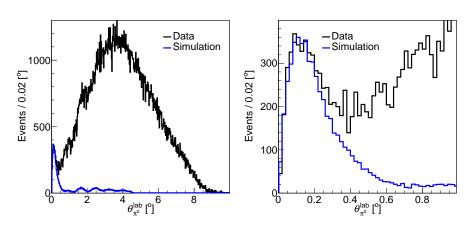
# Primakoff photoproduction of $\pi^0$ off $^{208}\mathrm{Pb}$

Apply PrimEx-eta selection criteria, except  $E_{\gamma}^{\mathrm{beam}} \leq 6~\mathrm{GeV}$ 



## Primakoff photoproduction of $\pi^0$ off $^{208}\mathrm{Pb}$

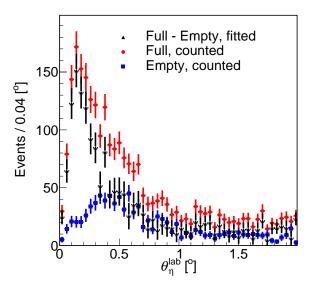
Apply PrimEx-eta selection criteria, except  $E_{\gamma}^{\mathrm{beam}} \leq 6~\mathrm{GeV}$ 



- Simulation: A. Fix Primakoff calculation is used as an event generator
- Goal, tune the simulation angular resolution

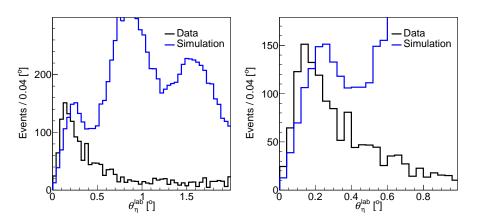
## Primakoff photoproduction of $\eta$ off $^{208}\mathrm{Pb}$

Apply PrimEx-eta selection criteria, except  $E_{\gamma}^{\mathrm{beam}} \geq 8~\mathrm{GeV}$ 



## Primakoff photoproduction of $\eta$ off $^{208}\mathrm{Pb}$

Apply PrimEx-eta selection criteria, except  $E_{\gamma}^{\mathrm{beam}} \geq 8~\mathrm{GeV}$ 



- Simulation: A. Fix Primakoff calculation is used as an event generator
- Goal, tune the simulation angular resolution