

# Group meeting

## March 8<sup>th</sup>, 2024



# Instruction responsibilities

- Classes (spring break ☺):
  - PHY 252:
    - Rewrote Three lectures
  - PHY 331:
    - Graded last  $\frac{1}{2}$  of exams
    - Graded homework
- Undergraduate independent study and research:
  - Luis: We figured out the connection between coupling constants for axion and pion coupling to E.B
  - Preston: Met just prior to this meeting?

# Service responsibilities

- Committee:
  - GlueX Compton Analysis Review Committee:
    - Current status of committee = ?
  - Graduate College Completion Fellowship Committee:
    - Now have access to Dropbox packets (plan to score next week)
  - Pre Award Faculty Panel:
    - Status : Next meeting will be when I am teaching

# Group responsibilities

- Paperwork for carryover has been submitted
- Met with Katelyn Tuesday and Thursday

# Analysis

- Modified parser inside plotResults.cc
- Working on presentation

# $KK\pi$ update

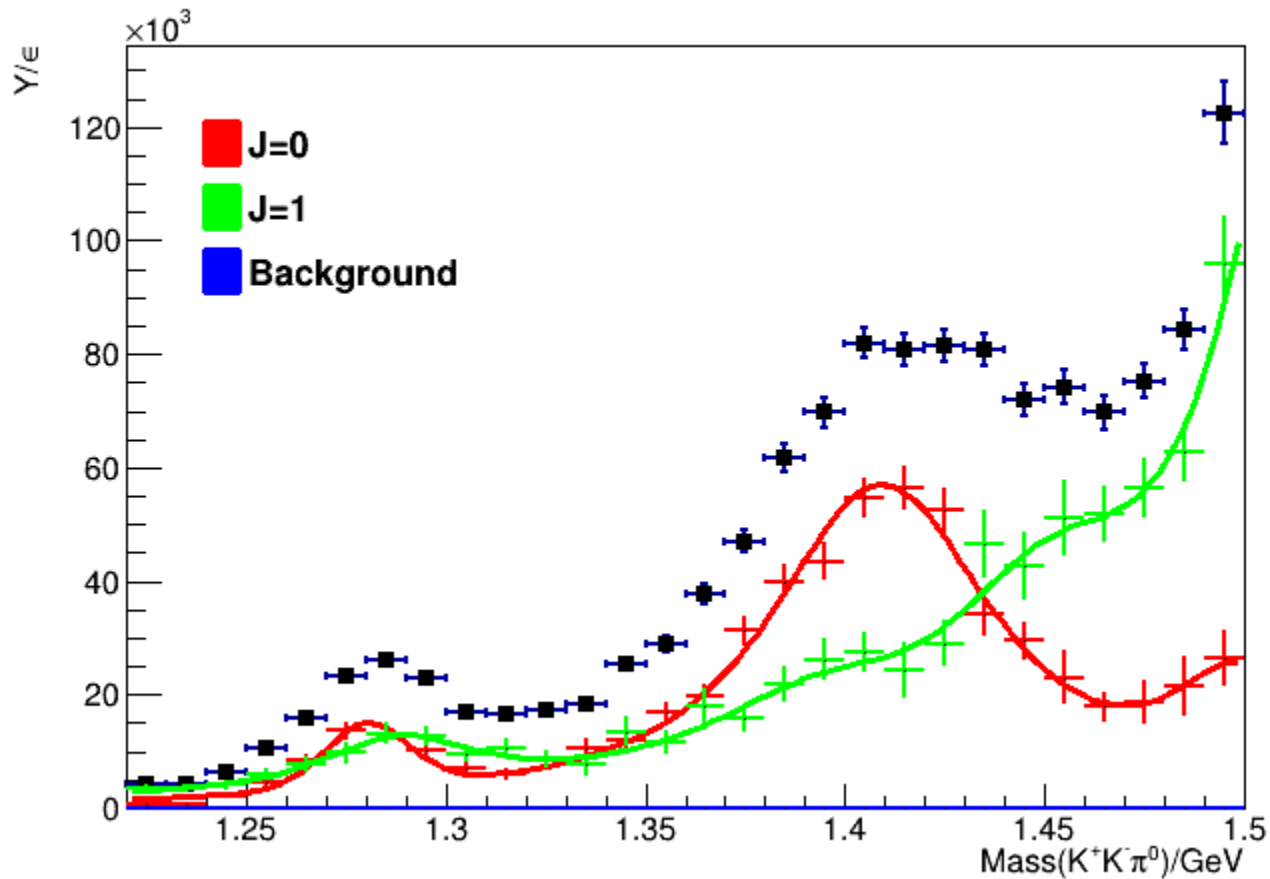
No Isobar line shape  
(phase space mass distribution)

# Mass-independent PWA of $KK\pi$

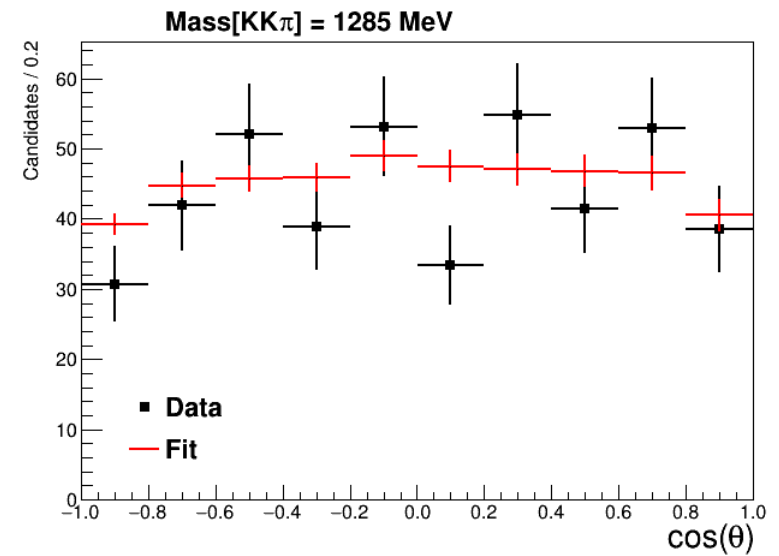
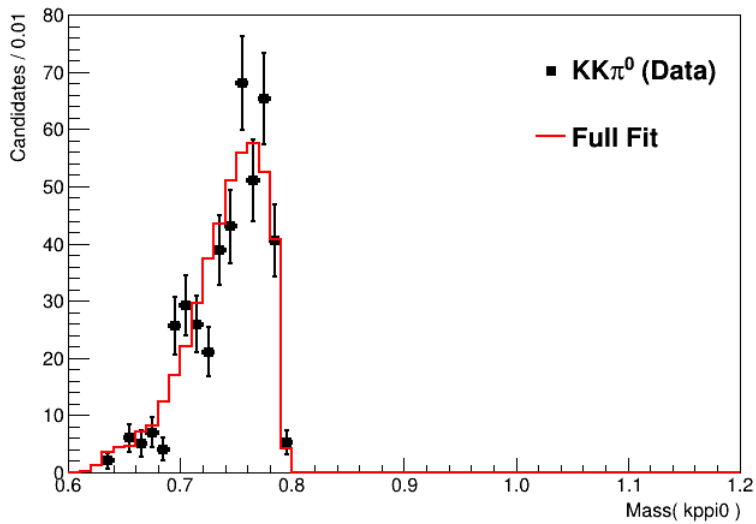
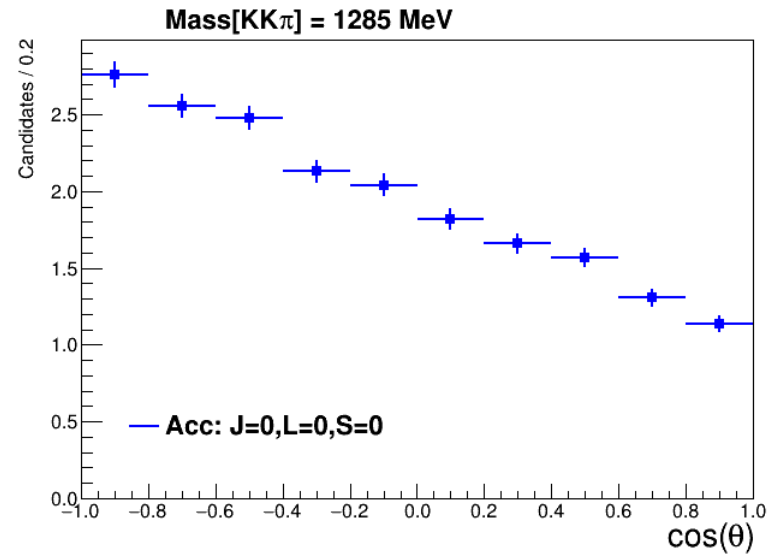
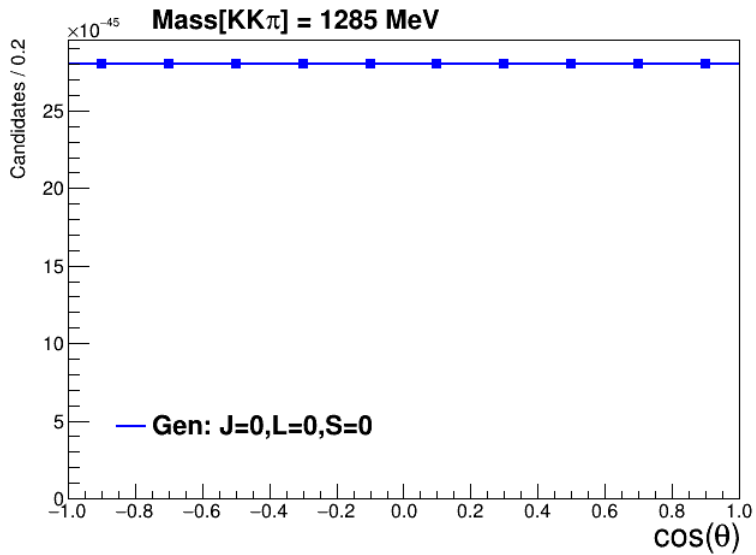
Included:

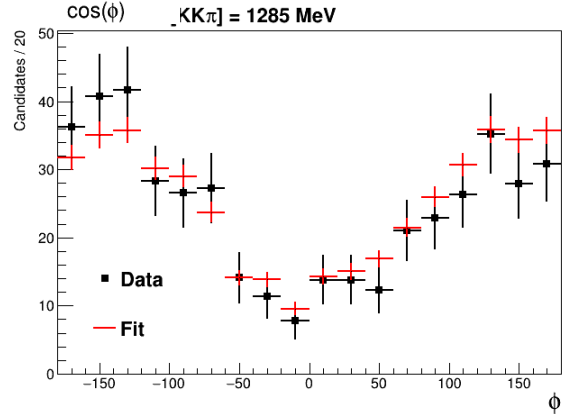
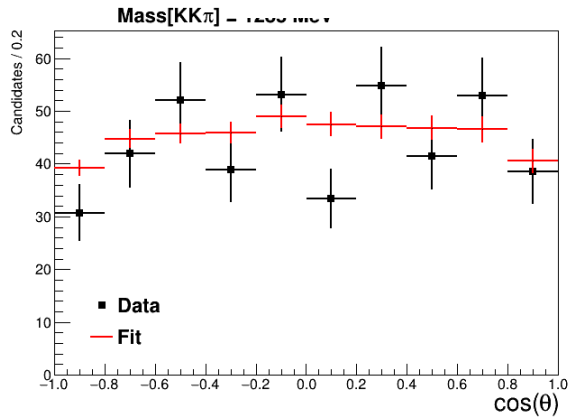
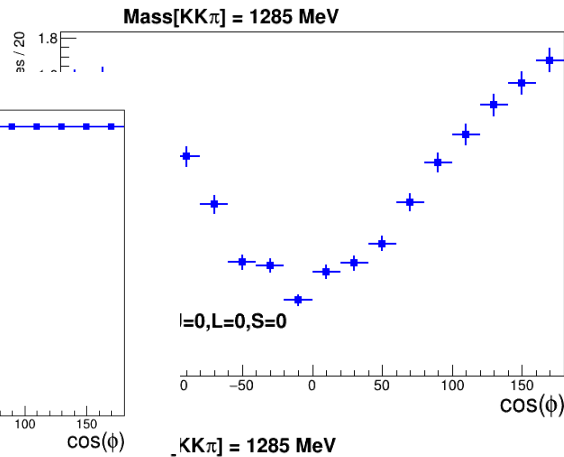
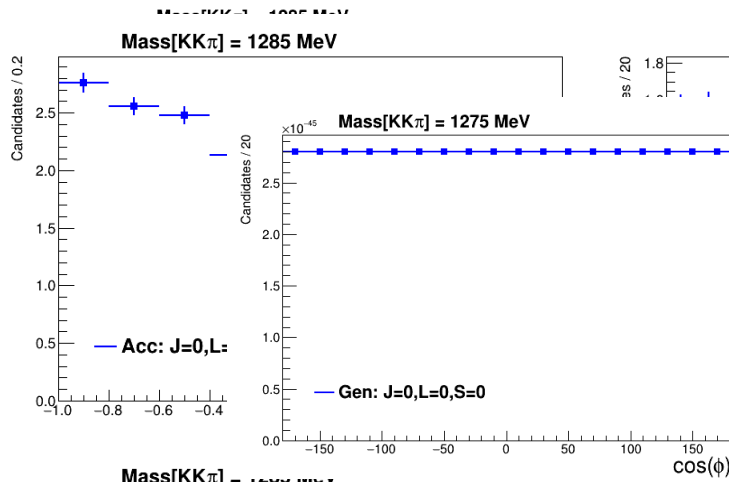
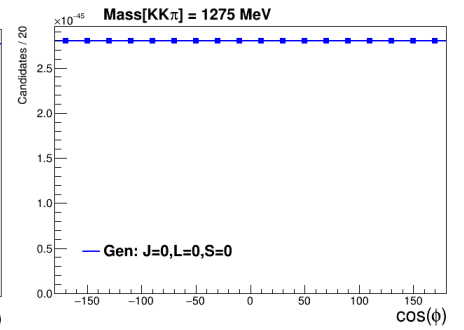
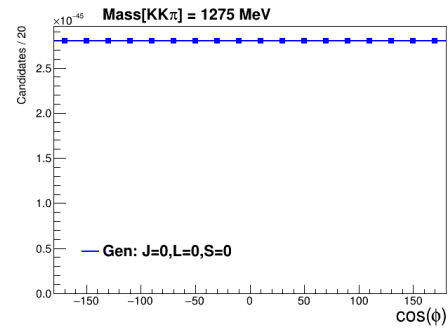
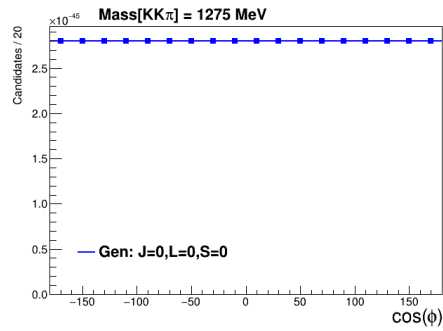
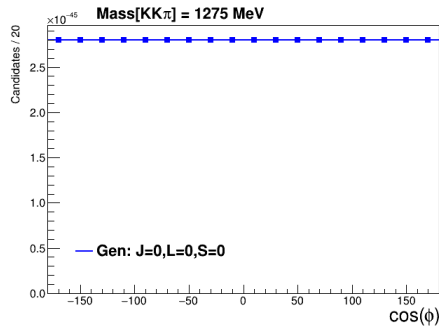
- $J=0^-$ 
  - $(K^+K^-)_{S\text{-phsp}}\pi^0$
  - $(K^+\pi^0)_{P\text{-phsp}}K^-$
  - $(K^-\pi^0)_{P\text{-phsp}}K^+$
- $J=1^+$ 
  - $(K^+K^-)_{S\text{-phsp}}\pi^0$
  - $(K^+\pi^0)_{P\text{-phsp}}K^-$
  - $(K^-\pi^0)_{P\text{-phsp}}K^+$
- $J=1^-$ 
  - $(K^+\pi^0)_{P\text{-phsp}}K^-$
  - $(K^-\pi^0)_{P\text{-phsp}}K^+$

# PWA Results for $J = 0, 1$









# Analysis