# Group meeting March 15<sup>th</sup>, 2024



#### Instruction responsibilities

- Classes:
  - PHY 252:
    - Two lectures
    - Graded homework
    - Created pdf of next homework assignment
  - PHY 331:
    - Two lectures
- Undergraduate independent study and research:
  - Luis: Looked at field-type Lagrangian for a string
  - Preston: Met just prior to this meeting



### Service responsibilities

#### • Committee:

- GlueX Compton Analysis Review Committee:
  - Current status of committee = Finally are moving forward ③.

    Committee chair is compiling all member comments into a document to send to the authors
- Graduate College Completion Fellowship Committee:
  - Printed packets
  - Started scoring this morning
- Pre Award Faculty Panel:
  - Status : Candidate decided they did not want the position => Start over again
- Next week: High school students
  - Need all of you to be at Poly on Friday



#### Group responsibilities

- The grant money is finally showing up in the regular accounting. Only took 6 months out of a 12 month grant allotment!
- Worked on cluster when required
- Met with Katelyn Tuesday and Thursday



### Analysis

**Presentation I gave on Wednesday** 



### $K^+K^-\pi^0$ update

First look at PWA using phase space  $KK\pi$  mass



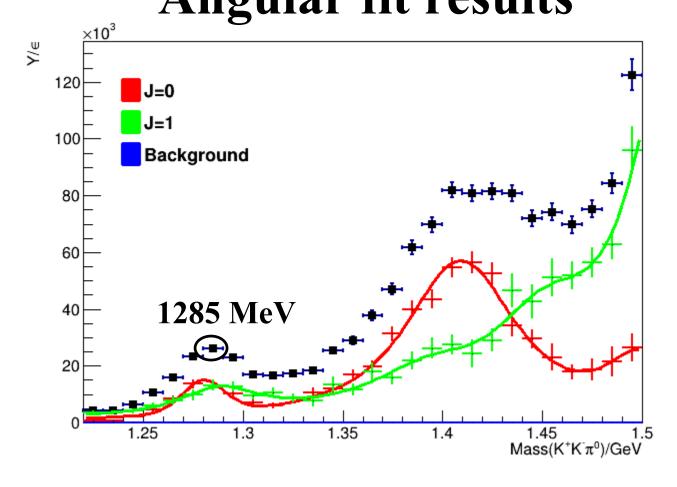
#### Mass-independent PWA of $KK\pi$

#### Included:

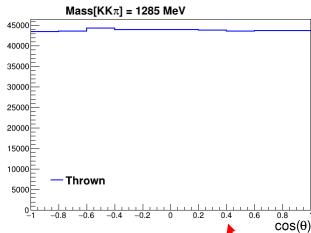
- *J*=0-
  - $(K^+K^-)_{S\text{-}phsp}\pi^0$
  - $(K^+\pi^0)_{P\text{-}phsp}K^-$
  - $(K^-\pi^0)_{P\text{-}phsp}K^+$
- *J*=1<sup>+</sup>
  - $(K^+K^-)_{S-phsp}\pi^0$
  - $(K^+\pi^0)_{P\text{-}phsp}K^-$
  - $(K^-\pi^0)_{P\text{-}phsp}K^+$
- *J*=1-
  - $(K^+\pi^0)_{P\text{-}phsp}K^-$
  - $(K^-\pi^0)_{P\text{-}phsp}K^+$



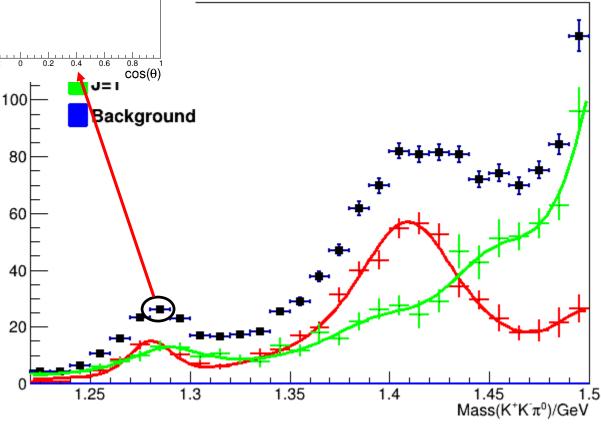
# PWA Results for J = 0,1 and background Angular fit results



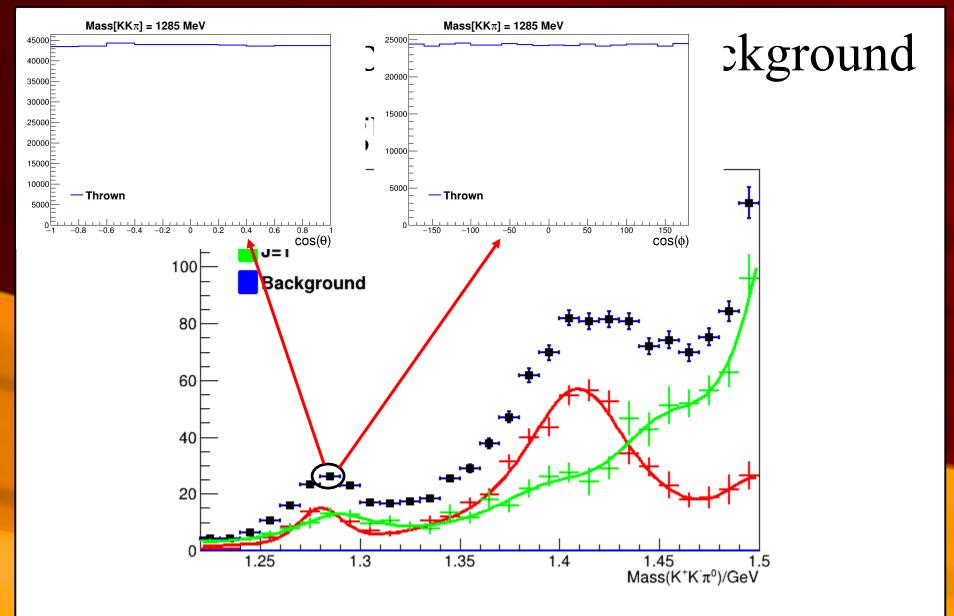




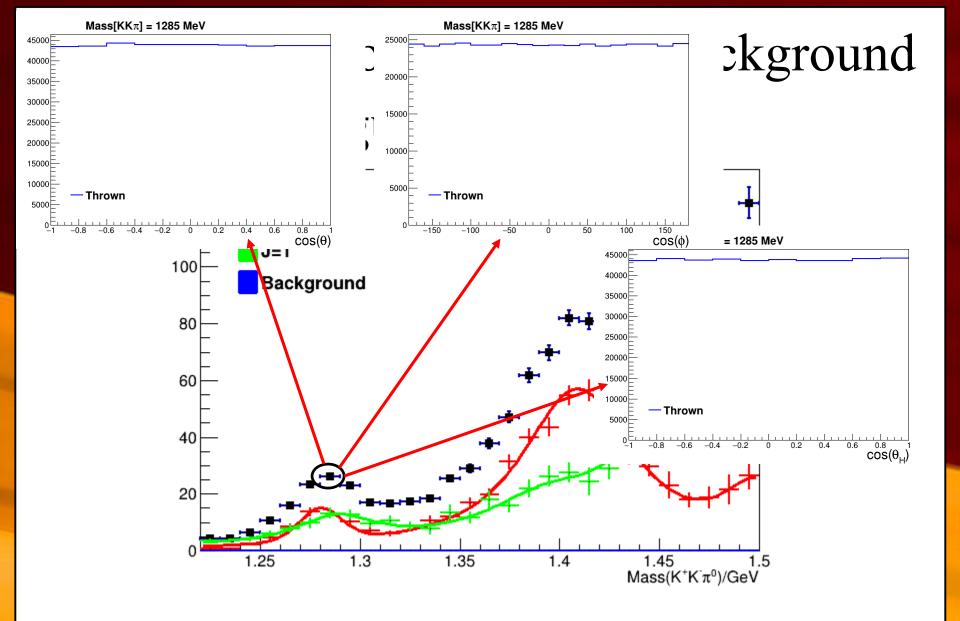
# or J = 0,1 and background jular fit results



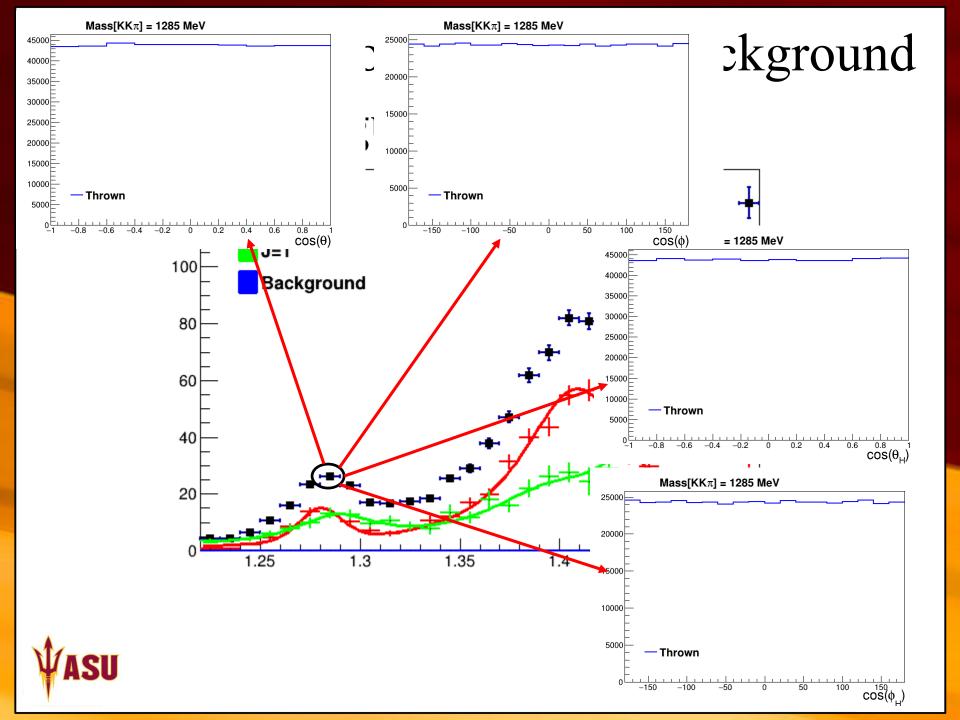


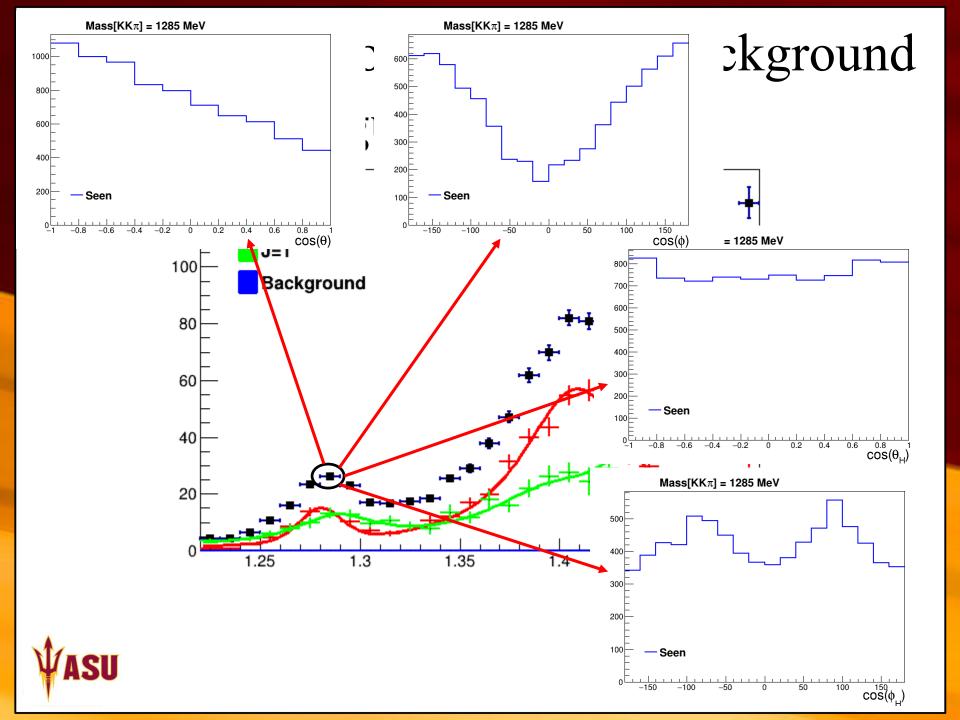


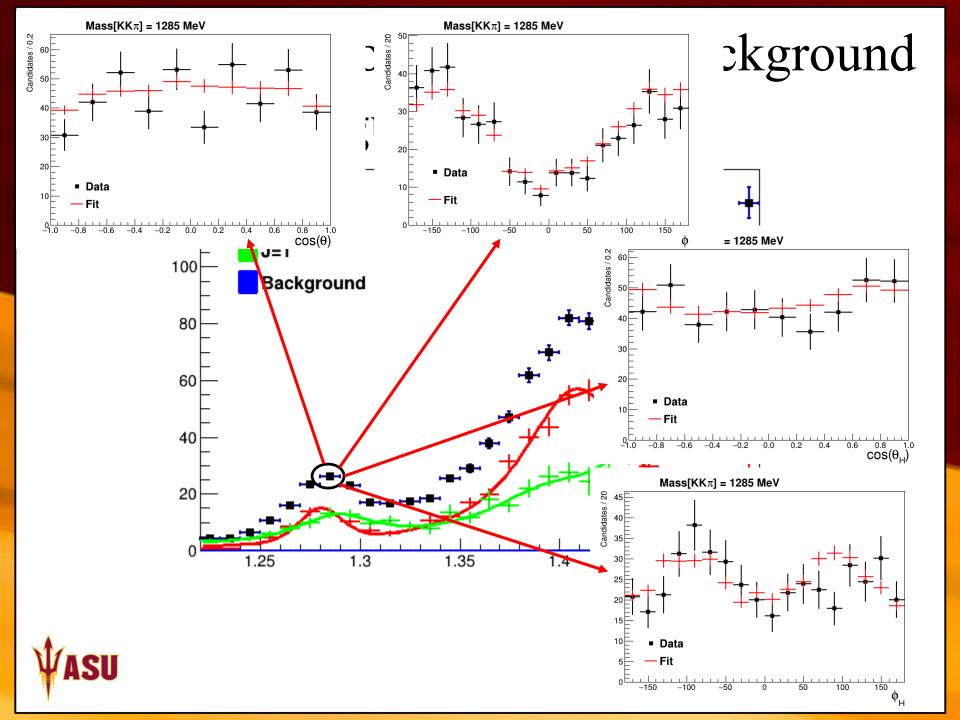


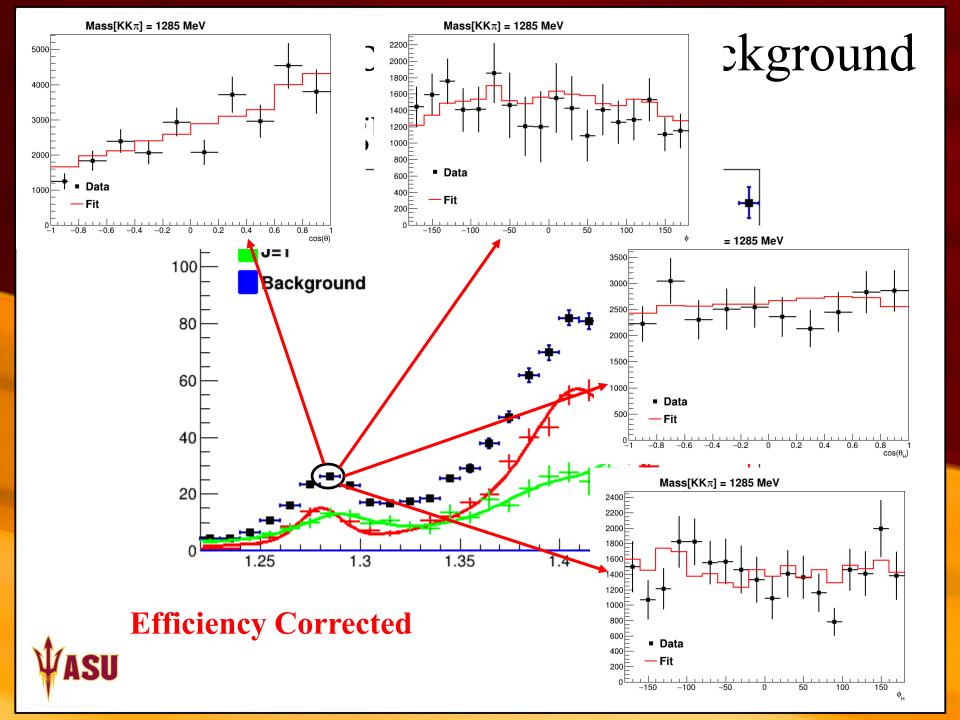




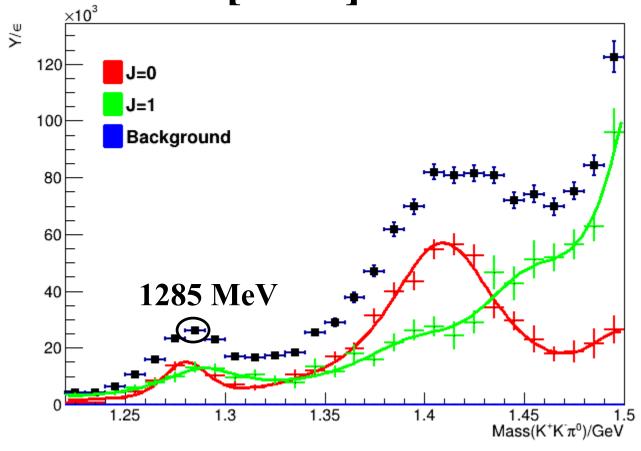




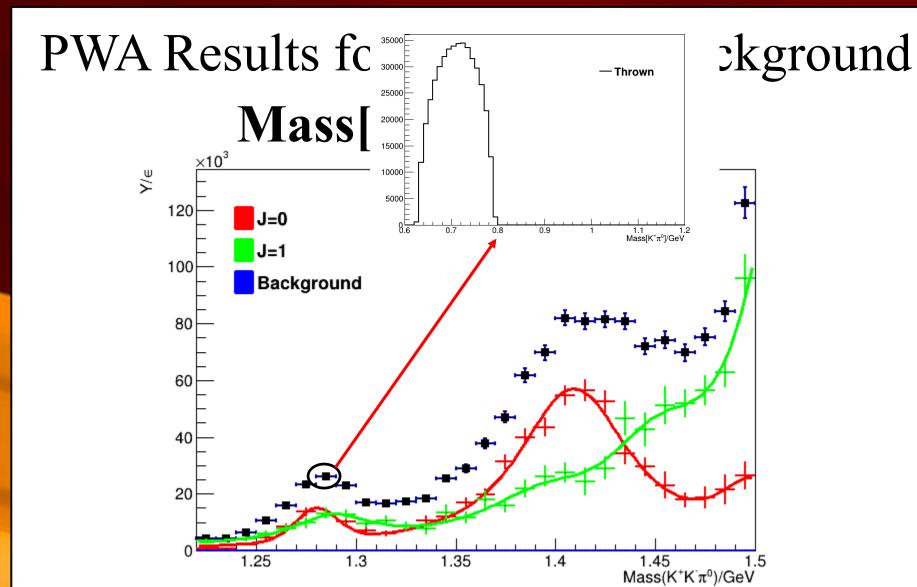




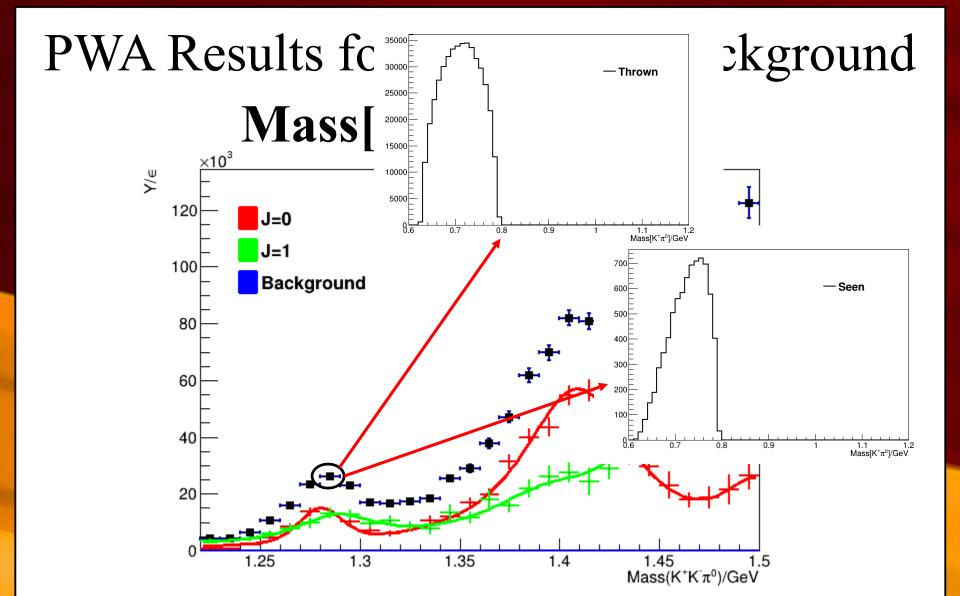
# PWA Results for J = 0,1 and background Mass $[K^+\pi^0]$ fit results



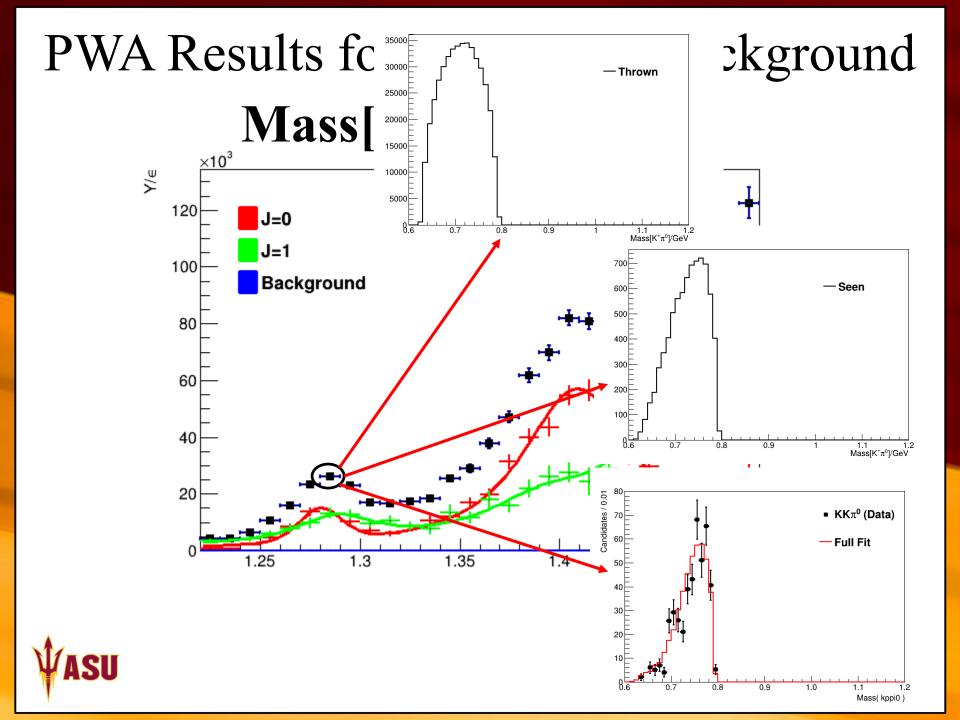




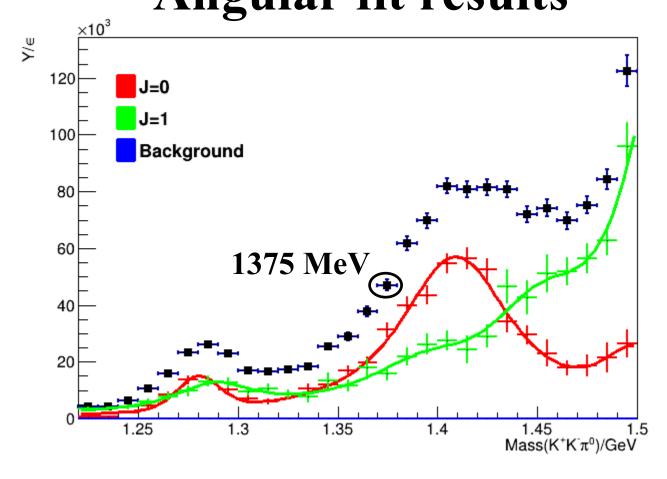




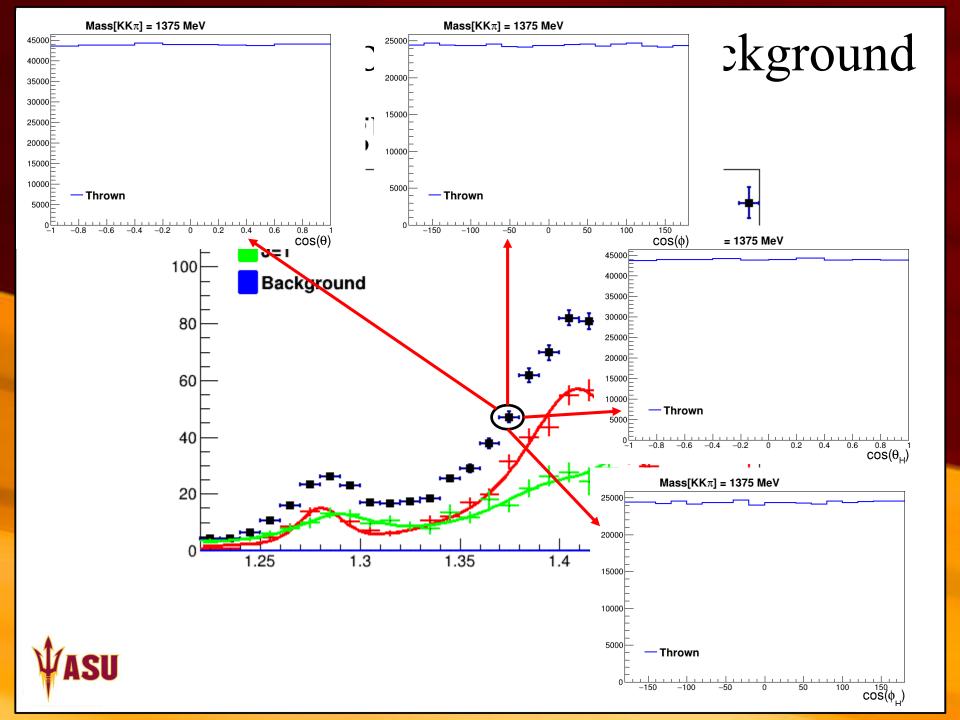


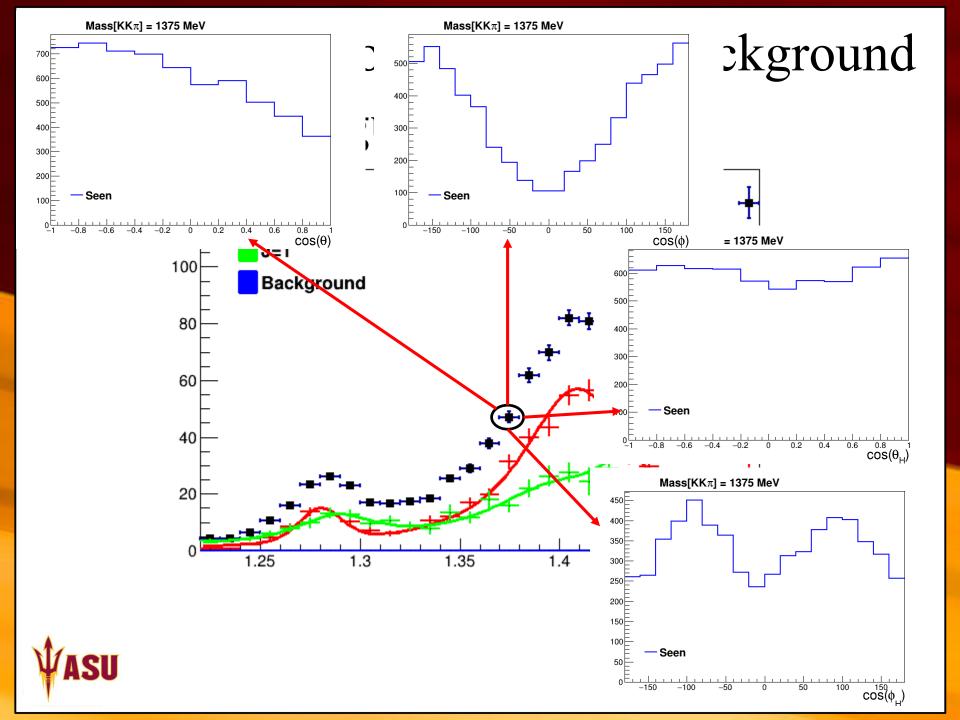


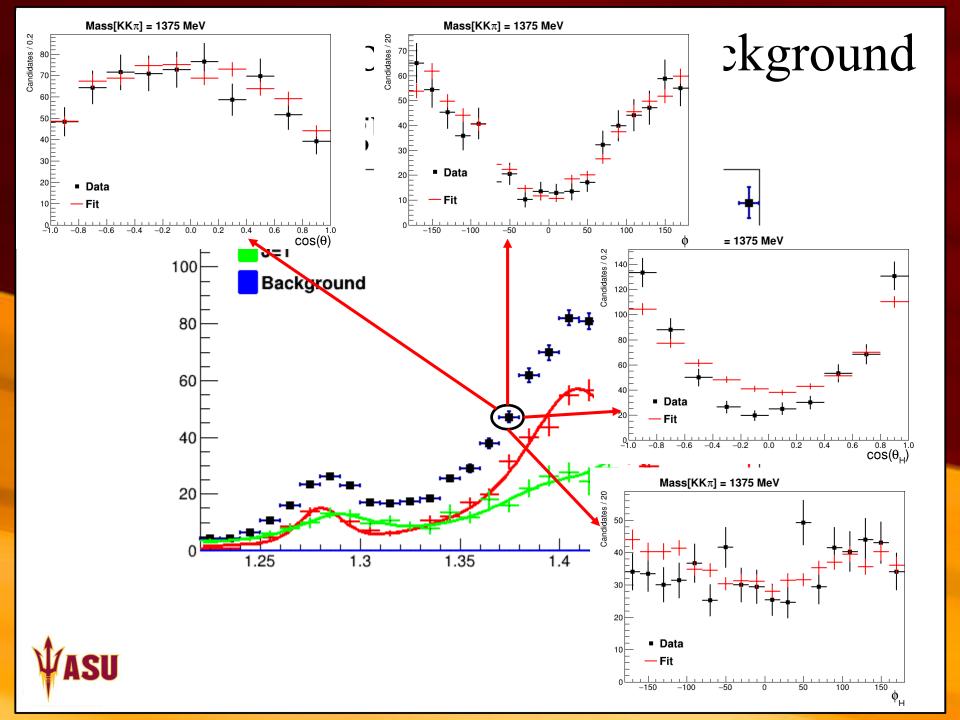
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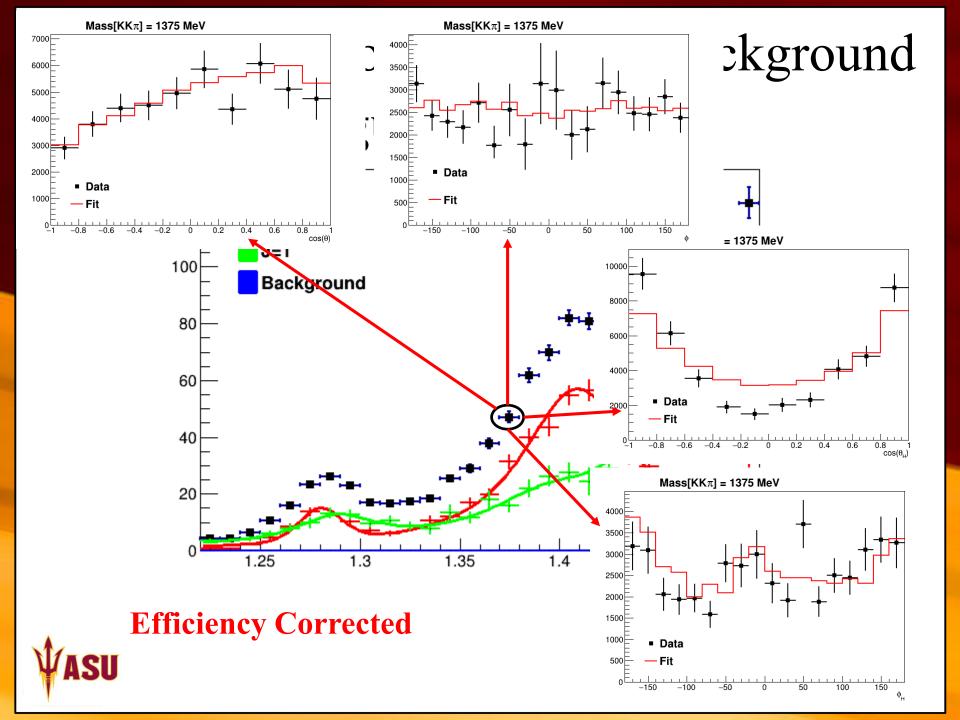




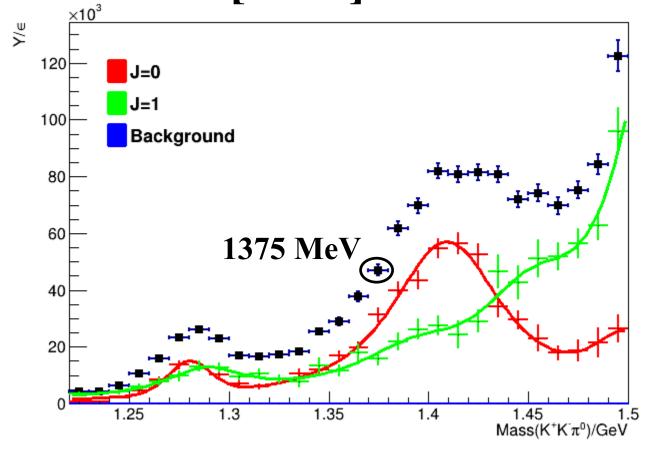




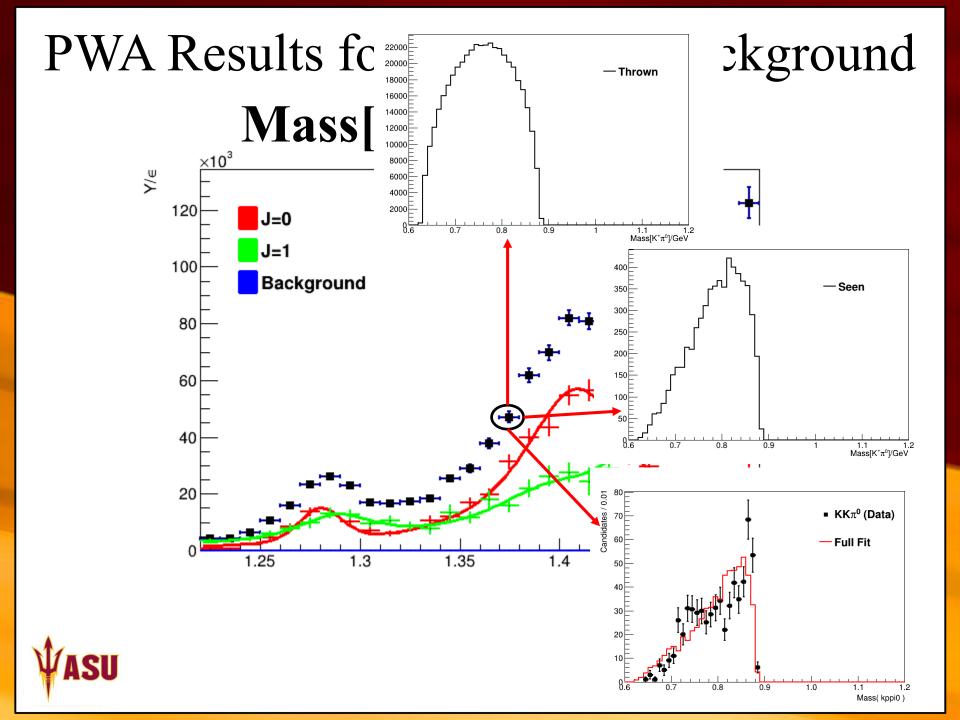




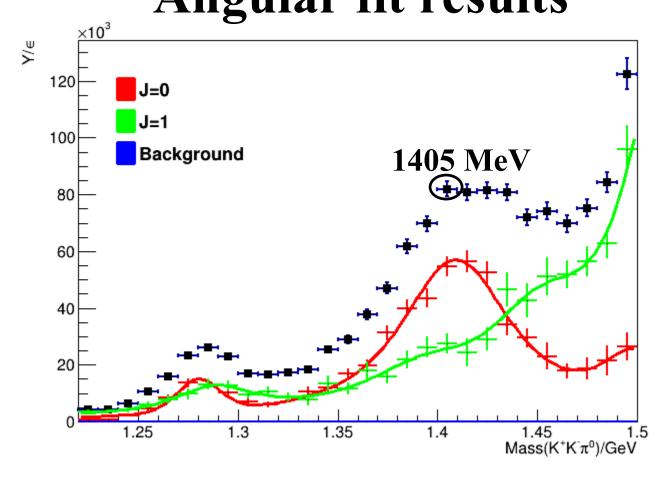
# PWA Results for J = 0,1 and background Mass $[K^+\pi^0]$ fit results



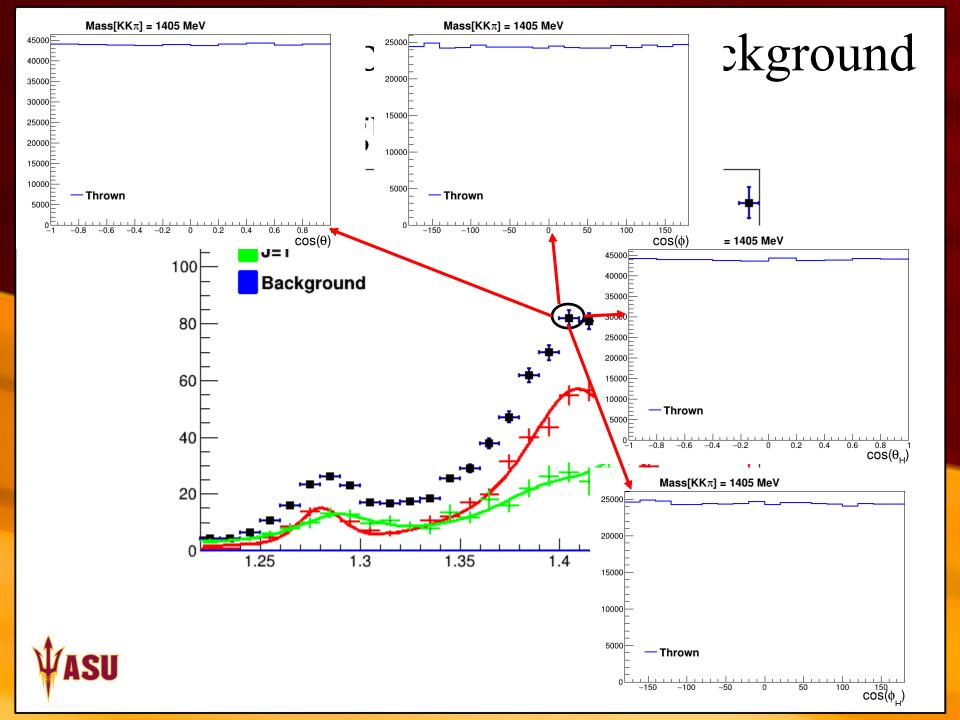


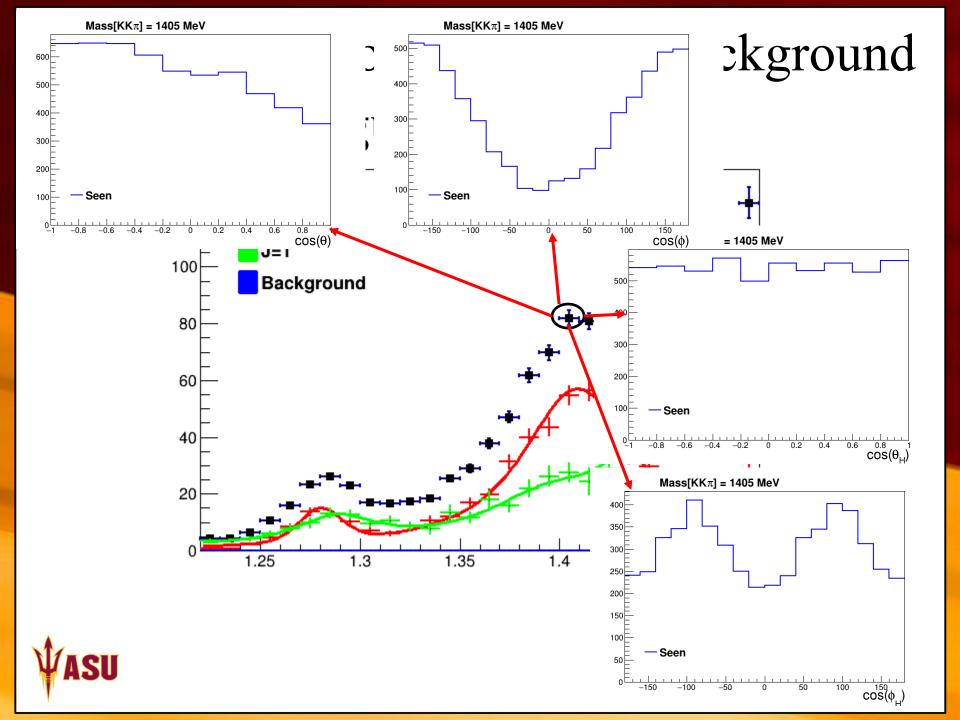


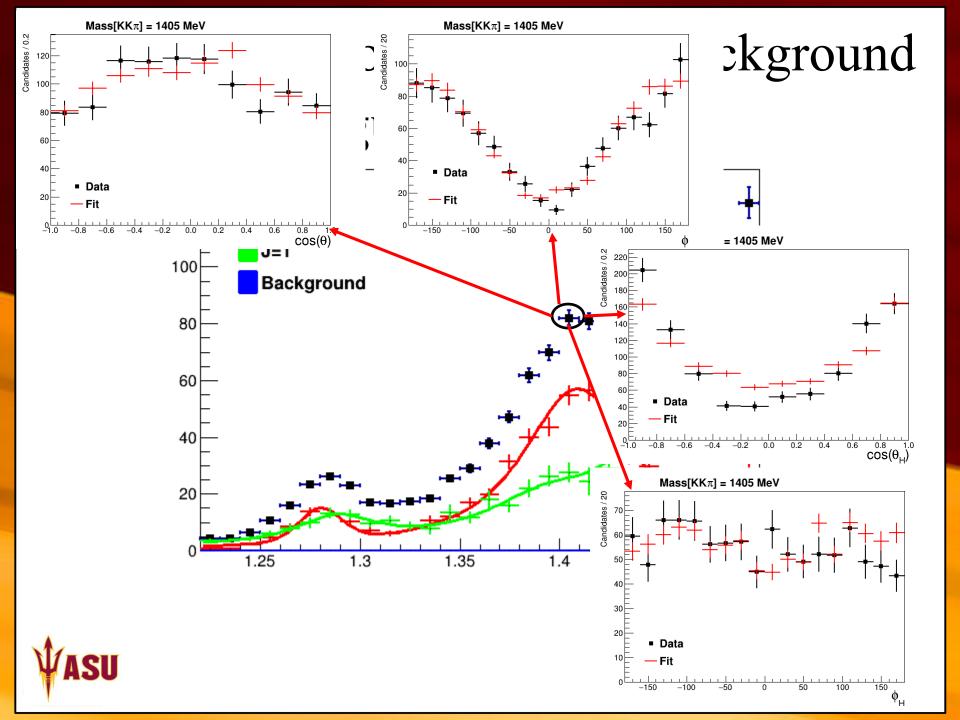
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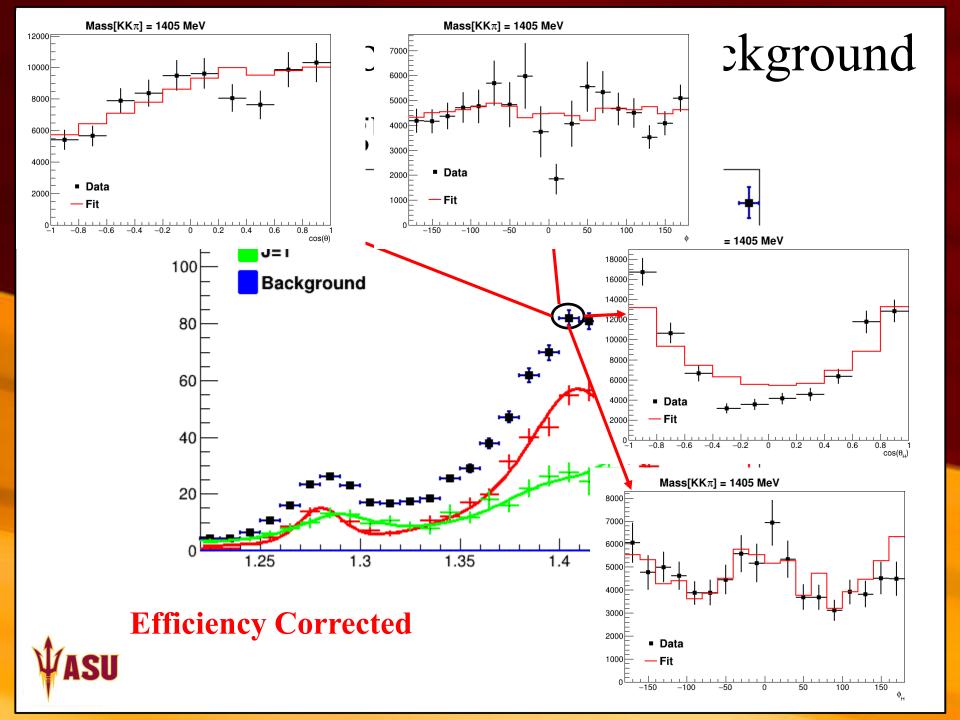




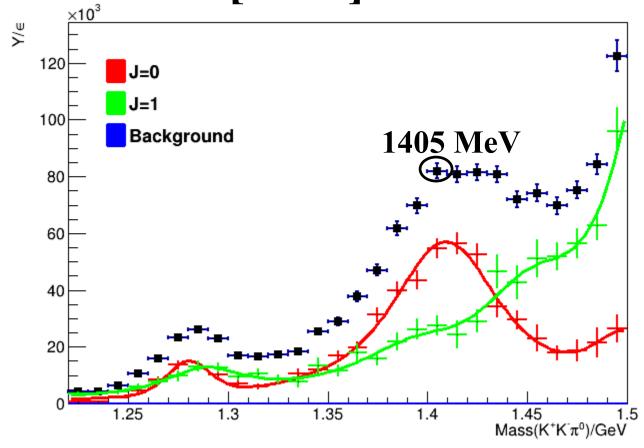




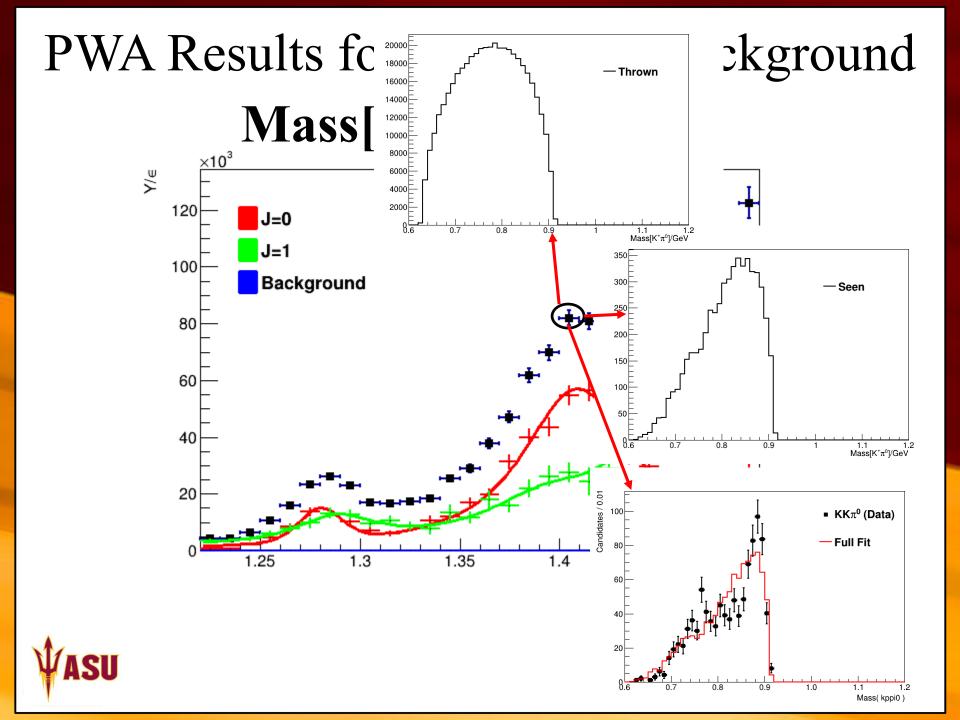




# PWA Results for J = 0,1 and background Mass $[K^+\pi^0]$ fit results







### Analysis



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