

Group meeting

April 4th, 2024



Instruction responsibilities

- Classes:
 - PHY 252:
 - Two lectures
 - Collected homework
 - Created pdf of next homework assignment
 - PHY 331:
 - One lecture
 - Graded homework
 - Finished creating exam 3
 - Graded exam 3
- Undergraduate independent study and research:
 - Luis: Helping prepare poster
 - Preston: Hassled. Meeting today?



Service responsibilities

- Committee:
 - GlueX Compton Analysis Review Committee:
 - Waiting for author response
 - Pre Award Faculty Panel:
 - Status : Nothing

Group responsibilities

- Still waiting for work from DOE about carry-forward
- Barry has decided to retire from active GlueX membership
- Met with Katelyn Tuesday and Thursday

Analysis

New stuff



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

PWA using K^*K and phase-space $KK\pi$
with phase-locking

Mass-independent PWA of $KK\pi$

Included:

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

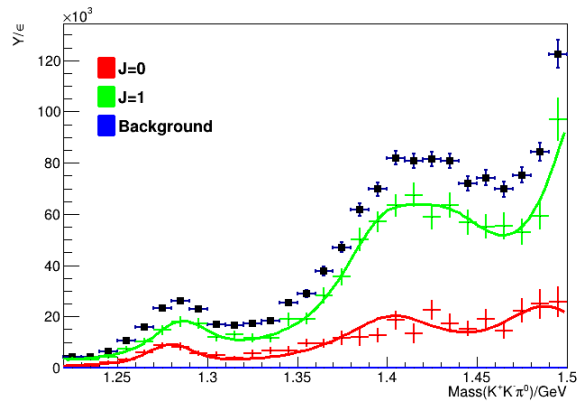
Mass-independent PWA of $KK\pi$

Included:

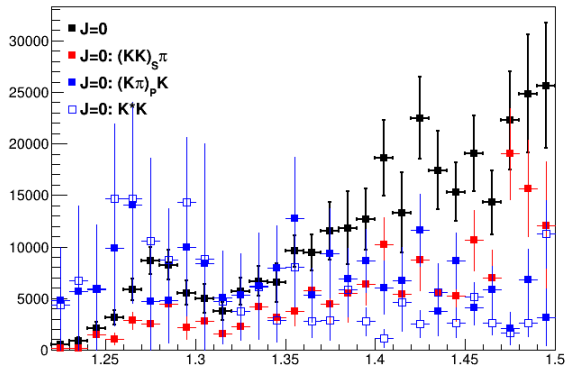
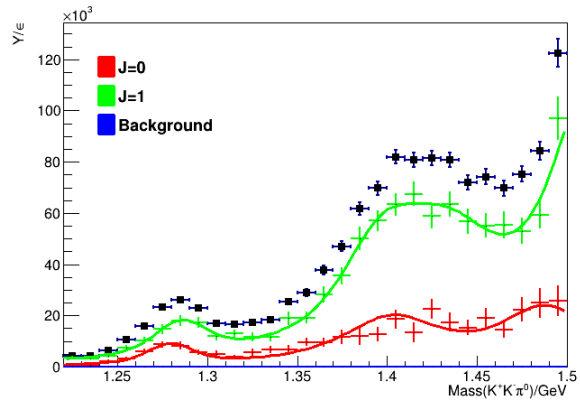
- $J=0^-$
 - $(KK)_{S\text{-phsp}}\pi$
 - $(K\pi)_{P\text{-phsp}}K$
 - K^*K
- $J=1^+$
 - $(KK)_{S\text{-phsp}}\pi$
 - $(K\pi)_{P\text{-phsp}}K$
 - K^*K

With and without phase-locking K^*K and $(K\pi)_{P\text{-phsp}}K$

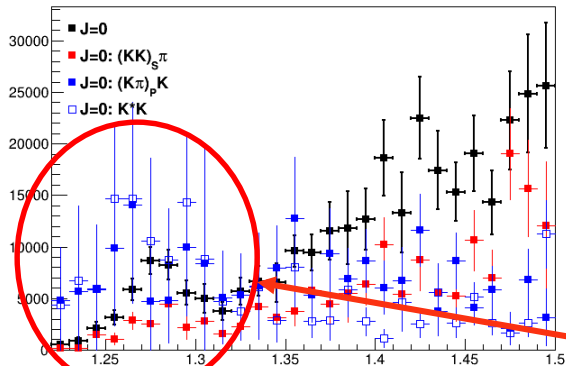
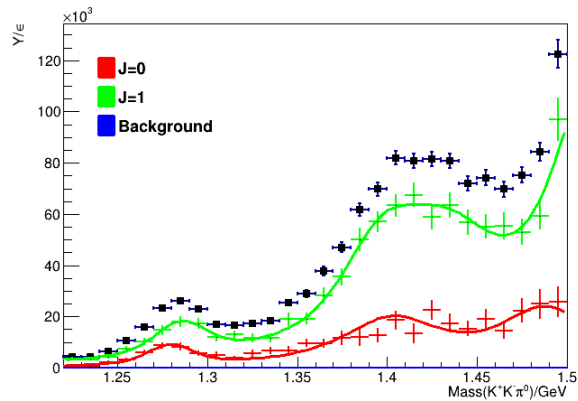
No phase-locking



No phase-locking

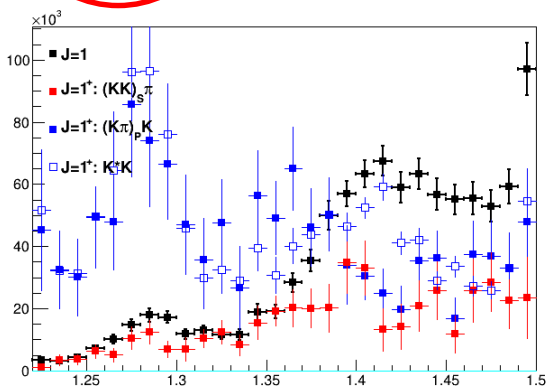
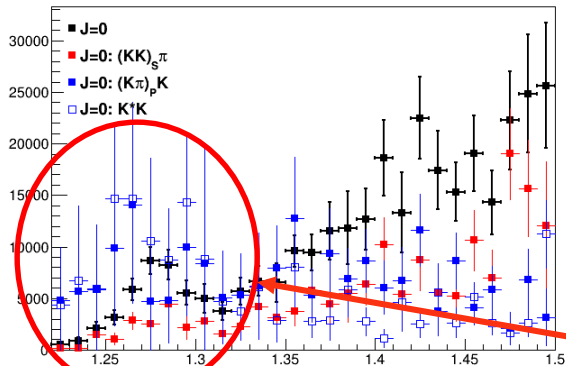
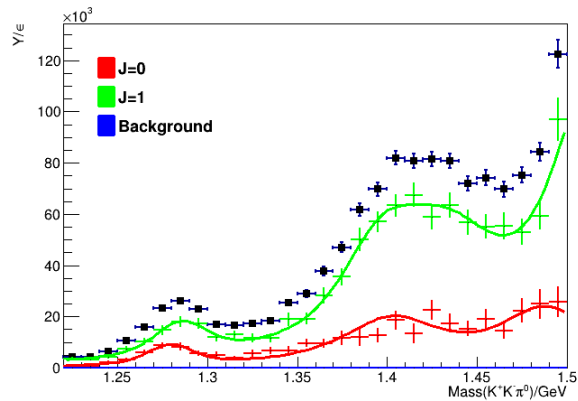


No phase-locking



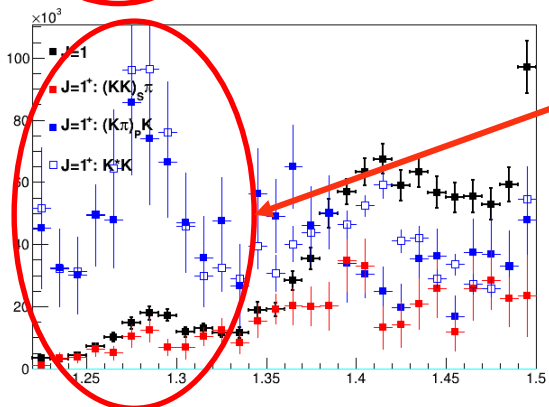
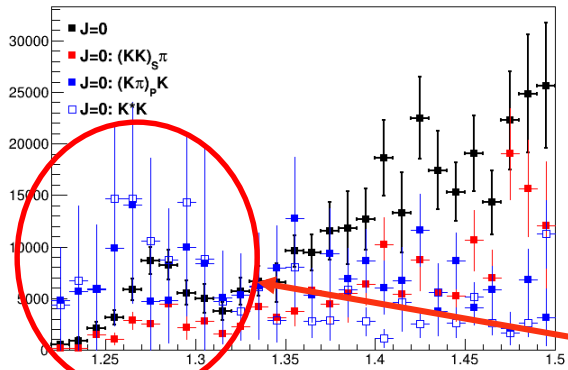
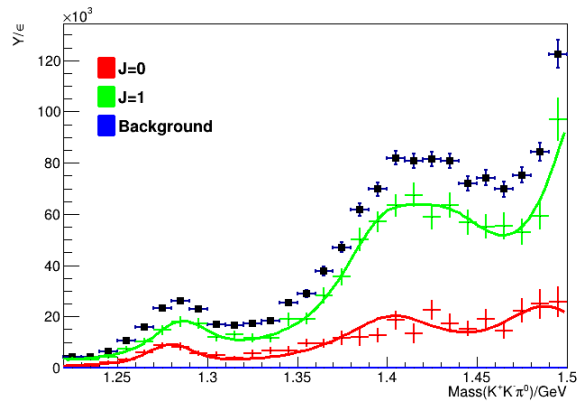
Large interferences

No phase-locking



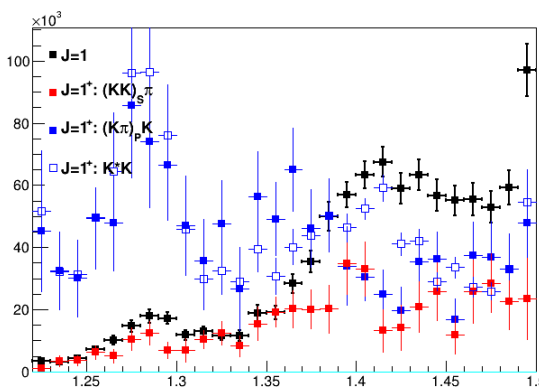
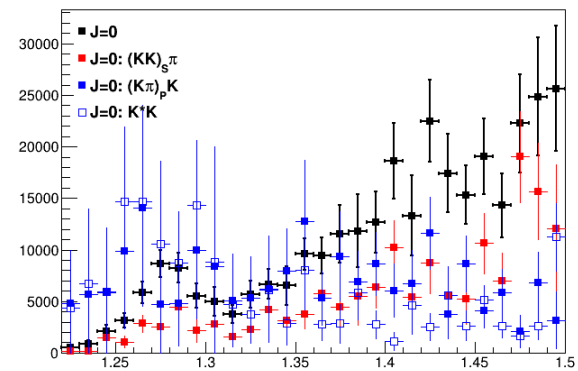
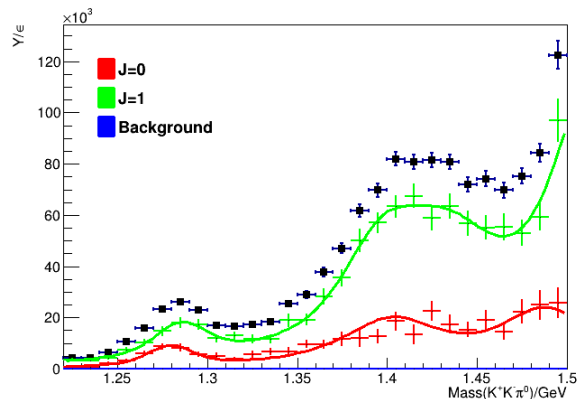
Large interferences

No phase-locking

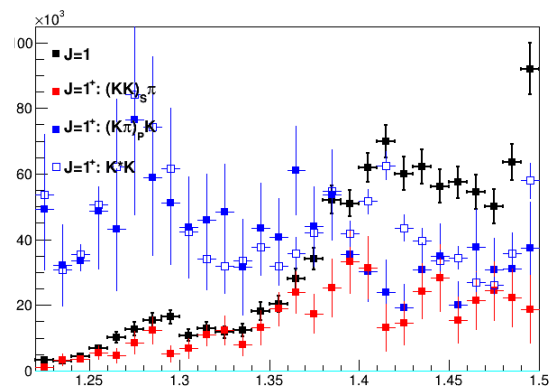
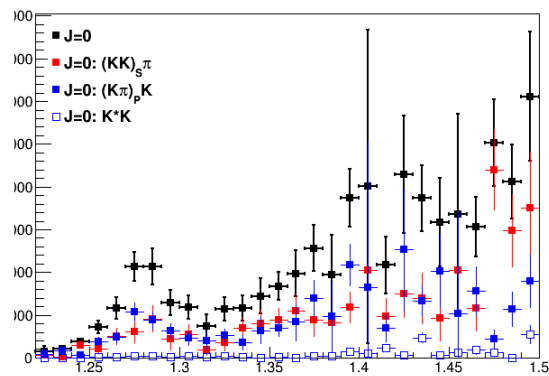
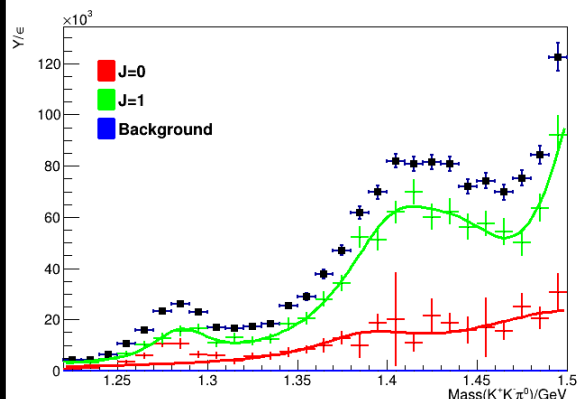


Large interferences

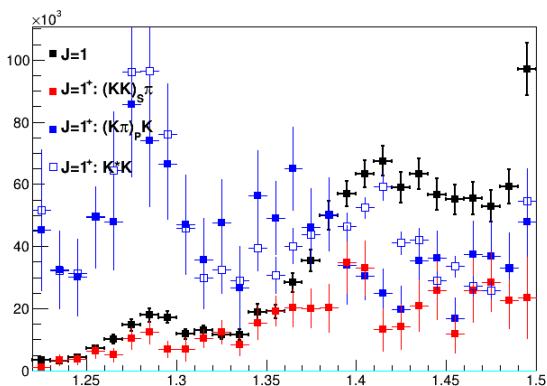
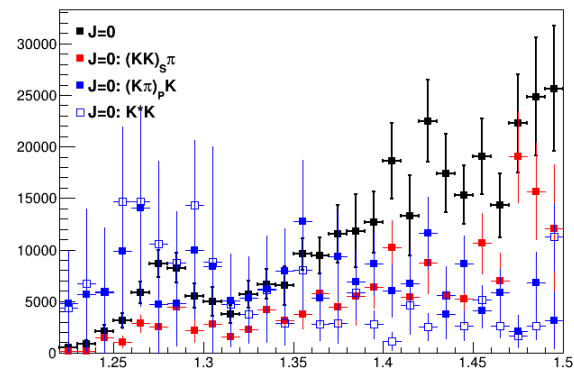
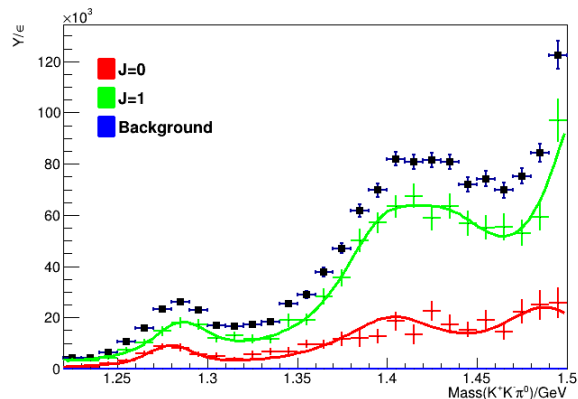
No phase-locking



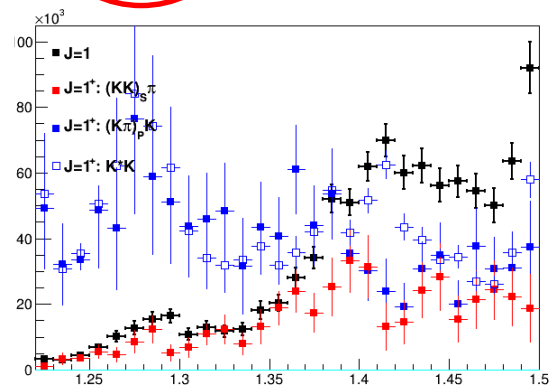
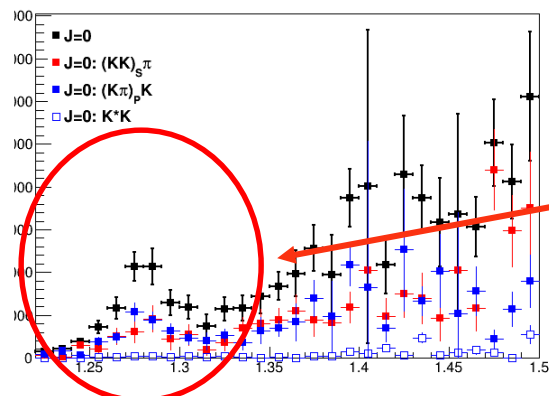
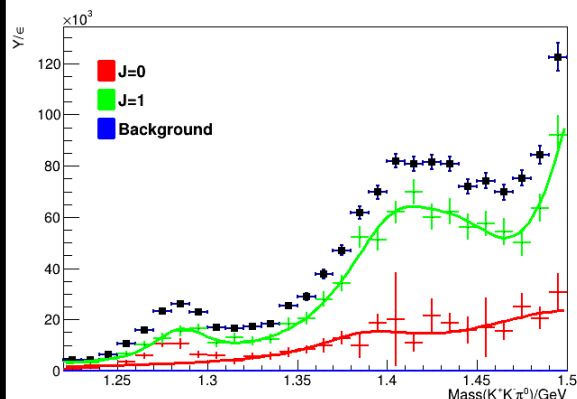
J=0: phase-locked



No phase-locking

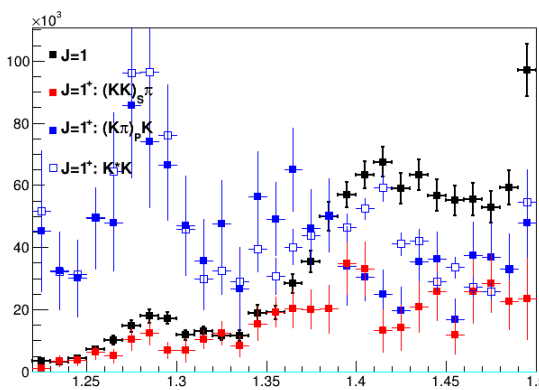
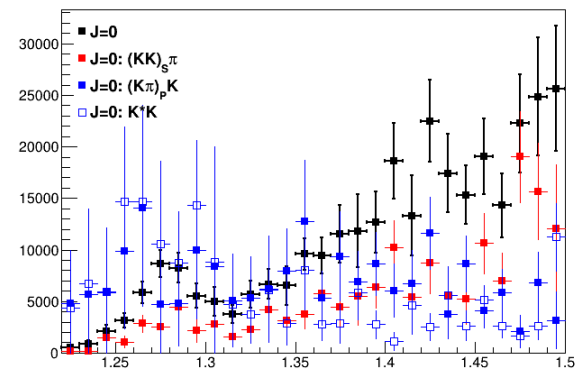
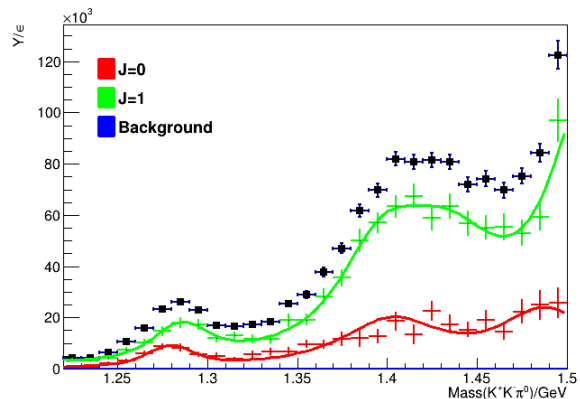


J=0: phase-locked

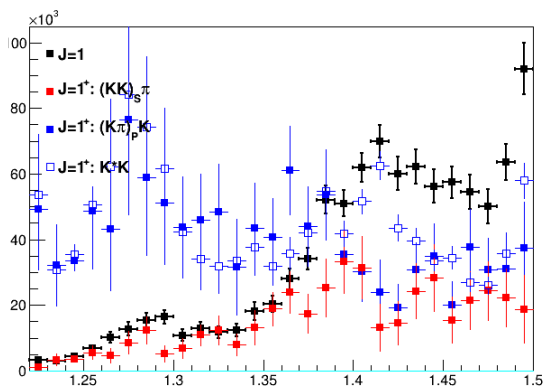
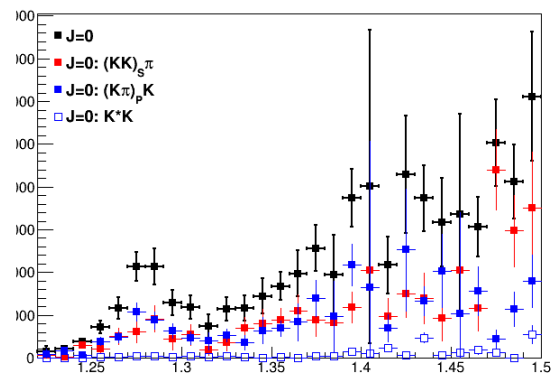
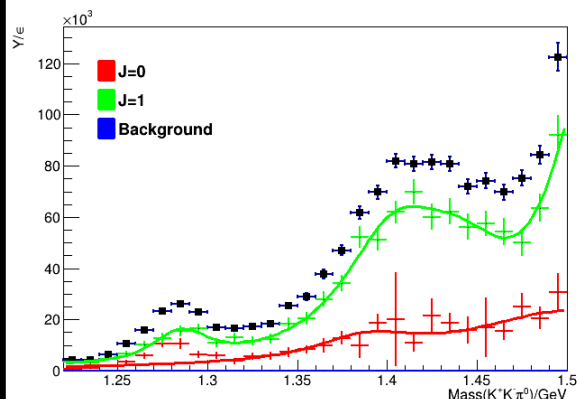


Interference gone
since $K^*K \sim 0$

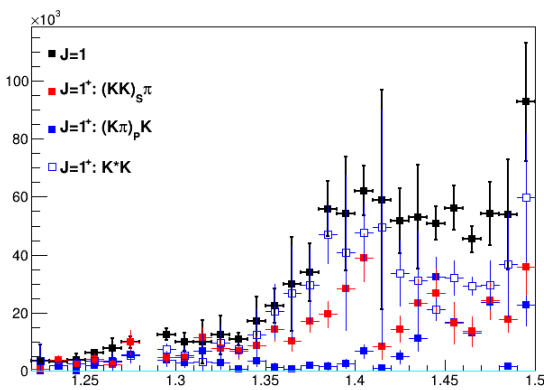
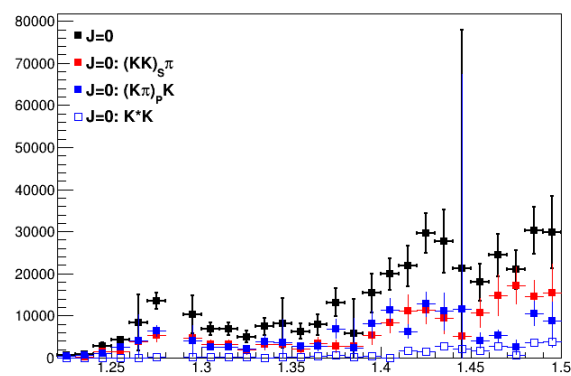
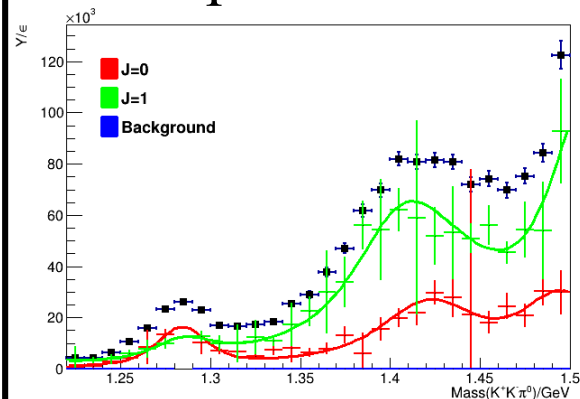
No phase-locking



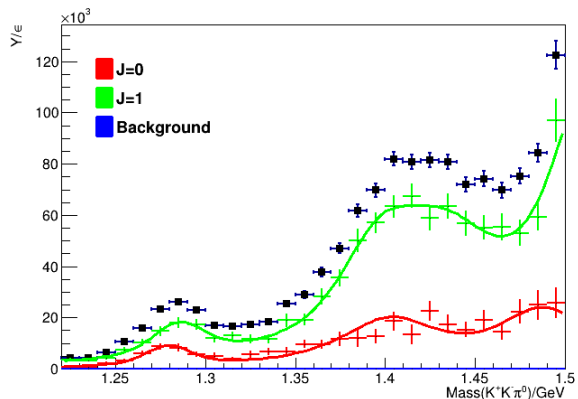
J=0: phase-locked



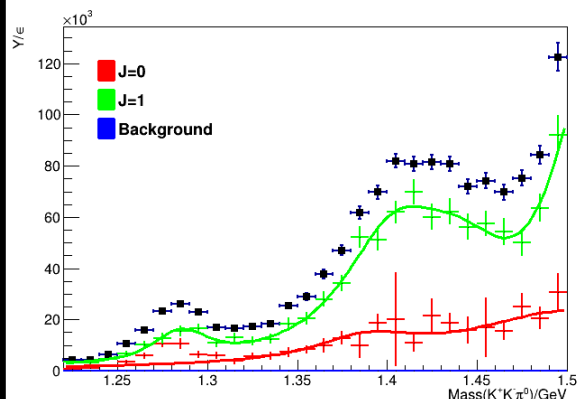
J=0: phase-locked J=1: phase-locked



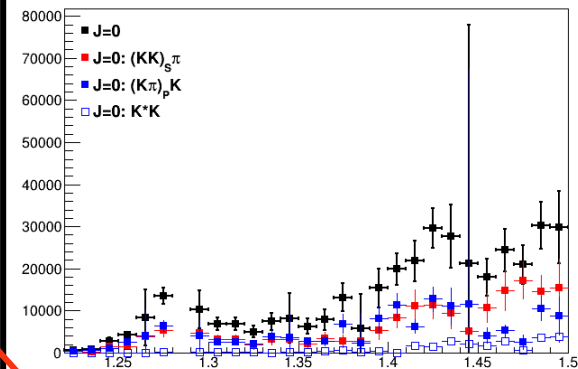
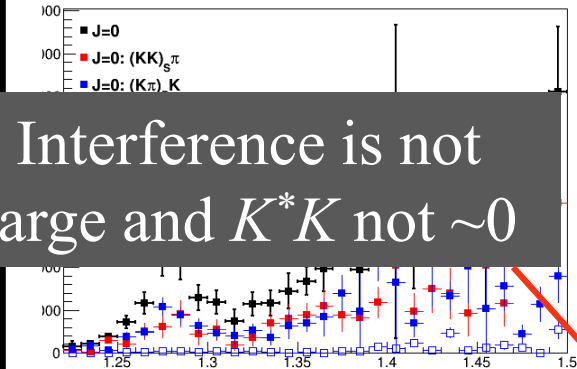
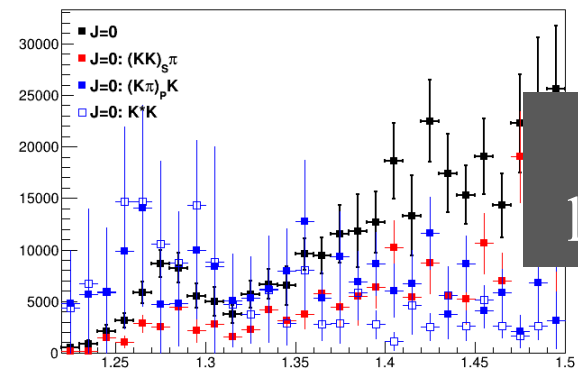
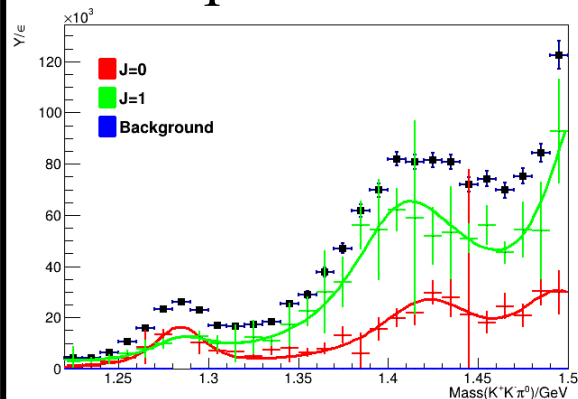
No phase-locking



$J=0$: phase-locked



$J=0$: phase-locked $J=1$: phase-locked



Interference is not large and K^*K not ~ 0

