

# Group meeting

## February 16<sup>th</sup>, 2024



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  - PHY 331:
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- Undergraduate independent study and research:
  - Luis: Did not meet this week
  - Preston: Met just prior to this meeting

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  - ASU Faculty Activity Report (FAR) Committee:
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  - Pre Award Faculty Panel:
    - Attend meeting with candidate for Research Award Associate directly after this meeting



# Group responsibilities

- Arranged meeting with Lee Pettit (ASU contact for grant funds) so that we can figure out future expenditures from grant for the remainder of our fiscal year (September through September)
- Met with Katelyn Tuesday and Thursday

# High school demonstrations

- On march 22 we will have high school students visit the lab
- We will break the students in 4 or 5 groups
- Each group will spend about 3-4 minutes at a designated demonstration area
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**We will employ the Rawhide Strategy:**

**Keep movin', movin', movin'**

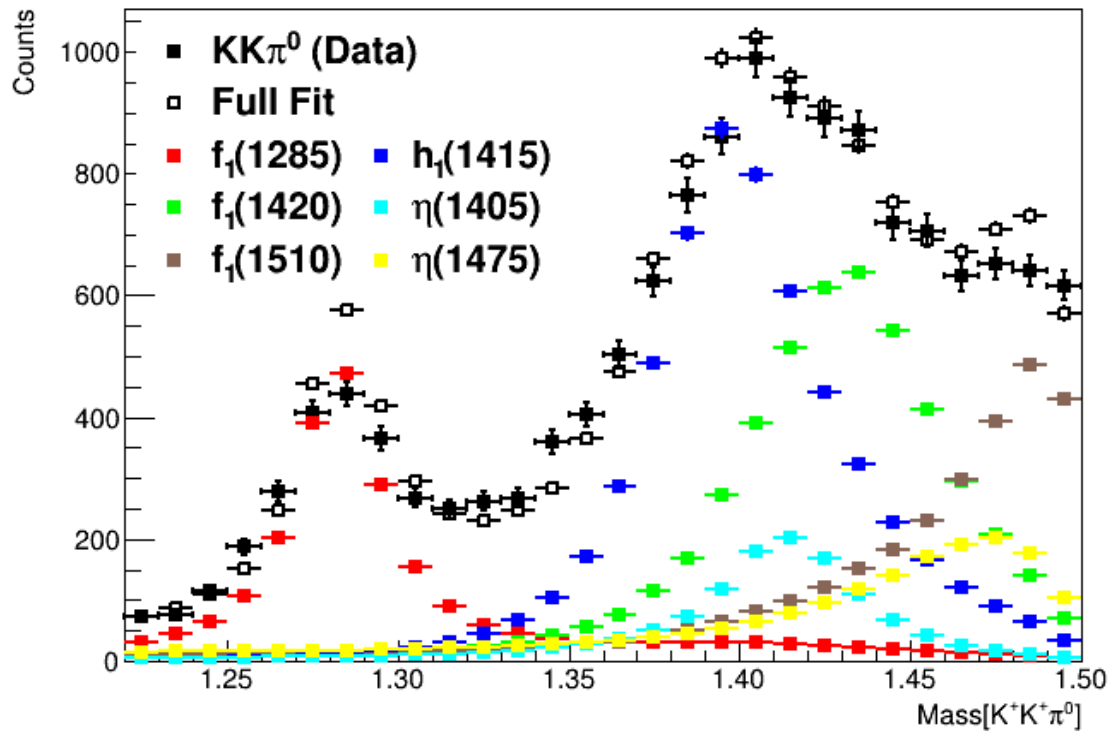


# Analysis

- Included  $\eta(1475)$  decay to  $K^*K$  in full mass dependent PWA fit (shown last time)

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- Included  $\eta(1475)$  decay to  $K^*K$  in full mass dependent PWA fit (shown last time)
- Create fake data from above fit
- Produced mas independent PWA

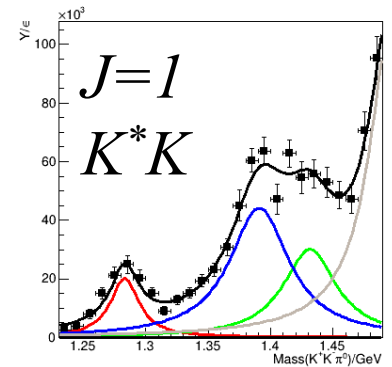
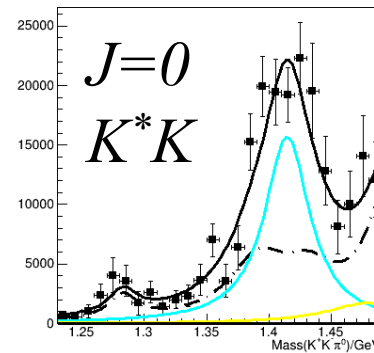
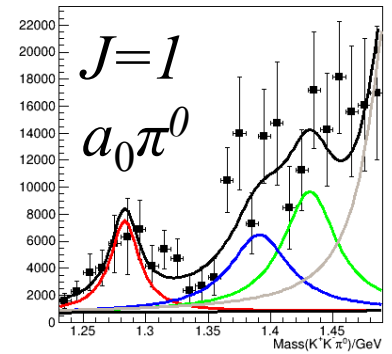
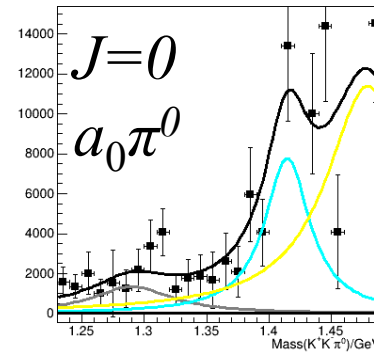
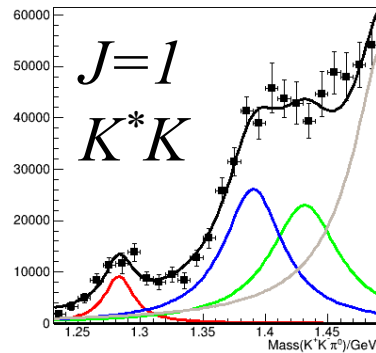
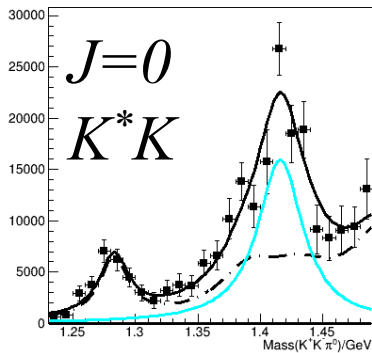
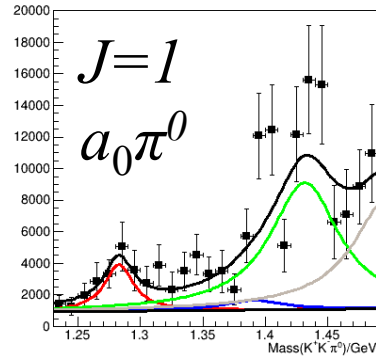
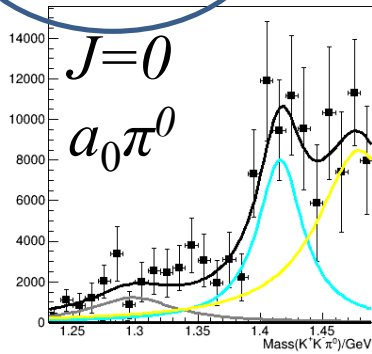


# Comparison of Real to Fake: Mass[ $K^+K^-\pi^0$ ]

FROM LAST TIME

REAL

FAKE



Note:

- $h_1 \rightarrow a_0\pi^0$  [Blue] was not generated
- $\eta(1295)$  [Gray] was not generated
- Assumed leakage (dashed-dotted lines) looks similar ☺

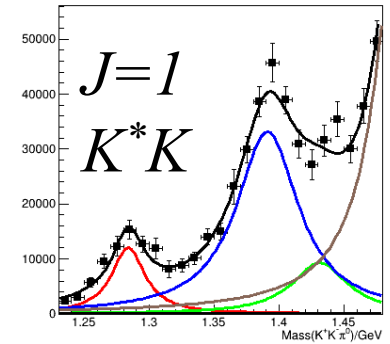
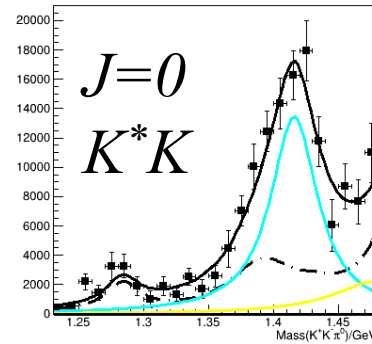
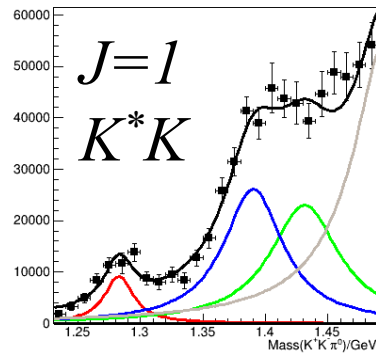
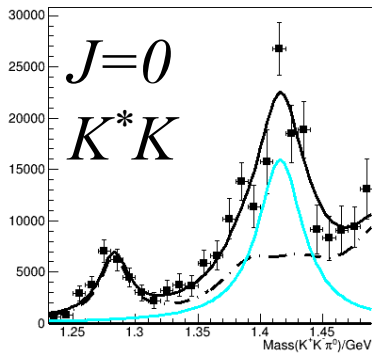
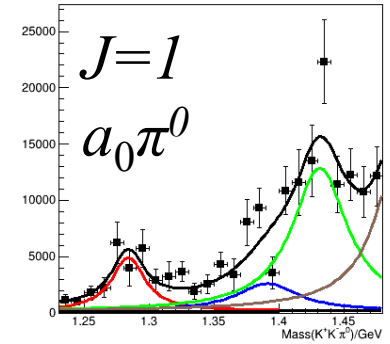
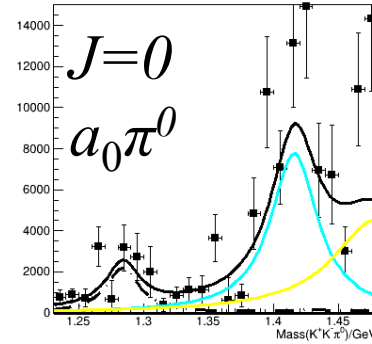
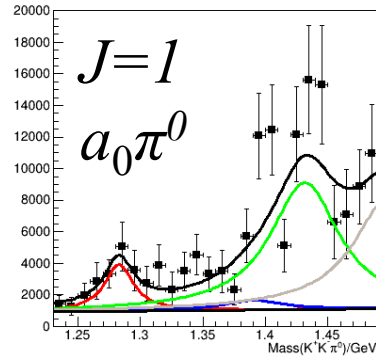
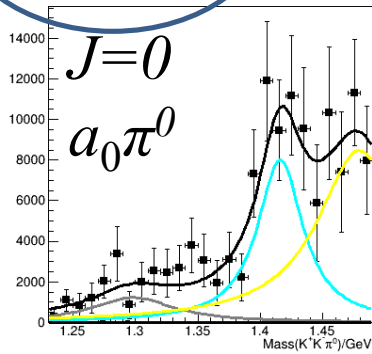


# Comparison of Real to Fake: Mass[ $K^+K^-\pi^0$ ]

NEW

REAL

FAKE



Note:

- **FAKE**  $J=0$   $a_0\pi^0$  has  $f_1(1285)$  leakage that is not in **REAL**



# Title

