2025.04.01 Zhuang Xinyu

Current working:

1. Generate signal MC and inclusive MC for qed3773, but now meets a problem that the events number of 3773 data after select is less than that of 3773 inclusive MC. This is so confused.

2. Remove more background of , now there is only few background remained, but the cost is that the number of events in the data is much smaller. Now there are 743 events remained in data, 23 events in inclusive MC, and 88 events in 3773 data (already been normalized), the ratio of background is about 15%.

3. Try to figure out the components in 3773 data. QED data of 3650 is also been cut by new criteria, there are only 2 events remained in one decay channel, but 8 events in the couple channel. There will be about 84 events after being normalized in 3650 data, this number is close to that in 3773 data, but the uncertainty may be big.

Next planning:

1. Checking and testing whether tf-pwa package can be used to do 4-body pwa. (Need more theoretical knowledge.)

2. Use data whose background have been removed to do pwa again.

3. The dispose method of qed3773 background needs more consideration.