2025.07.15 Zhuang Xinyu

Current working:

1. Continue to renew pwa results. The current solution includes two 2-body processes and three 3-body processes. Several resonances and processes were removed because of the low significances. Meanwhile, more processes are under trying to renew the solution. The significance of $N^{+}(1535)$ is less than 5σ now. I think it’s necessary for a better goodness of fit. However, it’s influence should be considered latter. I temporarily remove it from the solution. It needs some consideration whether $N^{+}(1535)$ should be in a 2-body process or a 3-body one.

Next planning:

1. Read books about PWA and QFT to learn more knowledge.

2. Continue to renew pwa results.

3. Generate toy mc after the final solution is got.

4. Estimate other kinds of systematic uncertainties in the analysis.