

Group Report

On Recent Work

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Introduction

The process we are studying is the decay below

$$\begin{aligned} e^+ e^- &\rightarrow \phi \eta_c \\ \phi &\rightarrow K^+ K^- \\ \eta_c &\rightarrow \left\{ \begin{array}{l} p \bar{p} \\ \pi^+ \pi^- K^+ K^- \\ \dots \\ 2(\pi^+ \pi^- \pi^0) \end{array} \right. \end{aligned}$$

The purpose of recent work:

Use signal MC to see whether there is signal to be seen.

Choose one from the 16 channels of η_c

Modify the program of Ji Qingping from Guo Aiqiang.
To study the channel $p\bar{p}$.

Create signal MC of the process.

Recent problem and solution

Problem:

The data distribution of every variable is around 0 in the ROOT file.

Solution:

Doing the cut flow.