

# Homework 2

布置日期： 2024.3.15

截止日期： 2024.3.19, 23:00

作业脚本和直方图上传到课程网站“作业”栏

# **Write a ROOT/C++ script to implement the following tasks:**

Produce histogram with error bars by choosing one of the shape from Gaussian or Landau function.

1. Plot three histograms with statistics of 100, 1000, and 10000, where each histogram is divided into 100 bins.
  - (1) display the mean, RMS and skewness of each histogram on the plot
  - (2) print them out in the terminal
2. Vary bin from 100 to 50, redraw three histograms, and display the mean, RMS and skewness of each histogram on the plot .
3. Draw the comparison plot between two different bins with same statistics (three comparison plots).