

# Computational Physics

Homework - ROOT/ch01

Korea University  
Eunil Won

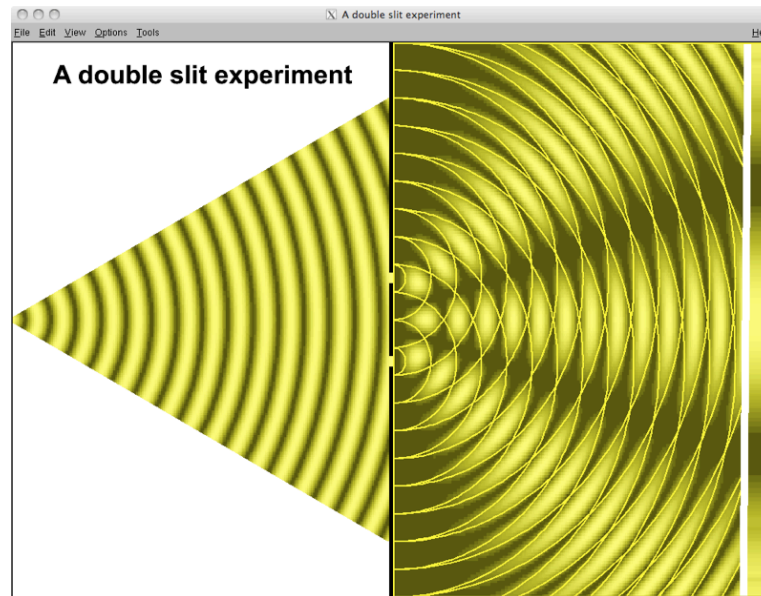
I-1. ROOT : Create a two histograms with the same binning (maximum and minimum, and # of binning are all same). Fill in two histograms at your will, but fill them to have different contents.

I-2. Plot two histograms separately.

I-3. Can you plot two histograms simultaneously? (Superimpose two histograms in one window in ROOT) Hint: The Draw() function of TH1F has an option Draw("same"). Try it for the 2nd histogram that you plan to draw on the 1st.

I-4. Can you plot a new histogram defined by addition of two histograms? What about subtraction of one from to the other?

2-1. ROOT (advanced): in the tutorial of graphs, you have waves.C. Can you run and get the plot of below?  
(<http://root.cern.ch/root/html/tutorials/graphs/waves.C.html>)



2-2. Go over the source code of the waves.C and understand it.

2-2. Can you make one more slit to have a triple slit experiment?