

Lab #6 - LCR

Fall Semester Note: Phys.122 Sections meeting the Wednesday or Thursday before Thanksgiving - hand in your report the week after Thanksgiving. You have one extra week to turn in your report.

Section C.1 Damped Oscillator Apparatus

The manufacturer of the LC meters claims they have an accuracy of $\pm 2\% \pm 1$ digit. This might (or might not) be the appropriate uncertainty to use for measurements made with this meter.

Section C.2 Damped Oscillator Procedure

Figure 5 shows only the bottom of the Pasco board. You should construct the circuit with the layout shown there or you will run into problems modifying your circuit for resonant circuit portion.

Section E.1. Resonant Circuit Apparatus

Remember to measure the values of each of the components of the circuit with a meter and to record your estimated uncertainties, with justifications, in those measurements.

The Origin guide for this lab is similar to that in the EPF lab, so look it up under the EPF announcements.