

Experiment 1

Introduction to 191 Lab

1. Introduction

In Physics 191 we will make extensive use of *Kaleidagraph* [*Kgraph*], a software package for graphing and data analysis, and *Excel*, for calculations. *Kgraph* is a substantial program but is nonetheless intuitive and extremely easy to use. Three major things that *Kgraph* does for us are:

1. Making high quality, easily customized graphs of your data.
2. Curve fitting, i.e., finding the parameters of a theoretical function that best describe your data. *Kgraph* provides estimates of the **statistical uncertainties of the fit parameters**, which are difficult to obtain with other commercial software (such as *Excel*).
3. Algebraic manipulation of numbers (though *Excel* is even more powerful)

2. Goals:

1. Familiarize yourself with basic calculations in Excel
2. Familiarize yourself with Kaleidagraph's plotting, calculation, and fitting options
3. Provide yourself with notes for using these capabilities for the rest of the term.
4. Have a first look at histograms and standard deviation
5. Have a first look at fitting and residuals
6. Have a first try at searching for flaws ("systematic errors") in data.

3. Background

3.1 In this first lab, we will learn how to use *Excel* and *Kgraph* on a PC equipped with the Windows XP operating system. Your lab report will contain printouts of the graphs that you generate. **The appendices to this lab writeup, and your notes made while performing this lab, will also serve as your guide for doing basic analysis operations.** You may write your report outside of class by hand or with Word. But you must **use your time carefully** in class to plot and analyze your data. Since you will be changing lab partners regularly, **take turns, and be sure each of you understands the software.**

For this laboratory exercise, you will analyze information from an actual mileage log kept for a Prius automobile. The log usually contains an entry for each tank of gas purchased (missing data were occasionally estimated). The Prius uses a hybrid engine system, with both a gasoline engine and electric motors. The gasoline engine ultimately provides all the power, but a large battery stores energy when the engine is not heavily loaded, or when the car is braking. The electric motor uses energy stored in the battery to provide extra power after a stop, when passing, when going in reverse, or even to allow the engine to be turned off temporarily. The battery and electric motor allows the gas engine to run nearer its optimum efficiency, part of why the Prius gets more miles per gallon than most cars.

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