

## Intermediate Physics Lab 4: A Higher-Order Mathematical Description of the Simple Pendulum, Comparing Data and Modeling

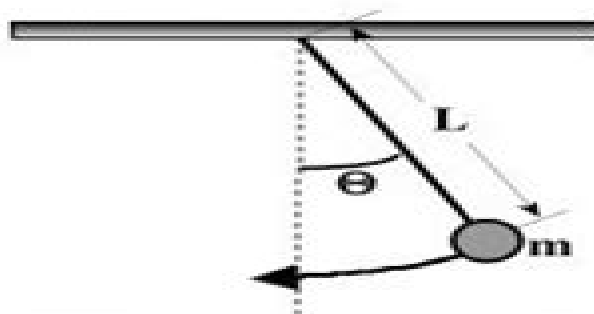
*"Why," said the Dodo, "the best way to explain it is to do it." Lewis Carroll in Alice in Wonderland.*

*Imagination is more important than knowledge.      Albert Einstein*

*Its hard to imagine what knowledge would be like without some imagination.      Physics Lab Instructor*

### Introduction

In examining the behavior of a simple pendulum (below) in a previous (possibly 290) lab, we made the simplifying assumption that, for small initial launch angles, the  $\sin\theta$  can be approximated by  $\theta$  itself.



This gave us a rather simple expression for the period of a simple pendulum,  $T$ , that depended on the physical parameters  $L$  (length of pendulum), and  $g$  (acceleration at the Earth's surface owing to gravity) but not  $m$  (the mass of the pendulum bob). The simple expression is arrived at by considering the "return torque" ( $\tau = L \cdot mg \sin\theta$ ), on the oscillator and the inertia which causes it to overshoot equilibrium, in this case the moment of inertia  $I = mL^2$ . The simple expression is the equation of motion for the pendulum:

$$\ddot{\theta} + \frac{g}{L} \sin\theta = 0 \Rightarrow \ddot{\theta} + \frac{g}{L} \theta = 0 \quad (1)$$

This simple expression can be solved for the period of the pendulum in the usual way, by assuming that  $t$  is some periodic function in time such as  $A\sin(\omega t + \phi)$ , taking it's second derivative, substituting, and solving for  $\omega$ . This equation constitutes a simple *model* for the pendulum motion, given  $\omega$ ,  $\phi$  and  $A$ , we state the mass's position at a time  $t$ .

Some assumptions are built into our simple model for the period of a simple pendulum as we have conceived it. An explicit assumption is that the initial (or *launch*) angle of the pendulum, sometimes called its initial displacement, is small. Less than  $20^\circ$  to be more precise. There is

# Lab Report Investigating A Simple Pendulum

**National Physical Laboratory (Great Britain)**



## Lab Report Investigating A Simple Pendulum:

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