# Lab 12: Physical Pendulum

Experiment for Physics 225 Lab at CSU Fullerton

## What You Need to Know

## What You Need to Do:

### Part 1: Procedure

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| .02768  |   |   |   |   |   |   |
| .02768  |   |   |   |   |   |   |

Table – Part 1 Data

1.

Does the small angle approximation hold for this larger value of ? Explain.

### Part 2: Two Masses

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| .02768  |   |   |   |   |   |   |
| .02768  |   |   |   |   |   |   |
| .02768  |   |   |   |   |   |   |

Table – Part 2 Data

How do you expect the period to behave as *l*2 approaches *l*1? Explain your answer.

What is happening to the period of your system as l2 is increased? Does this agree with your answer from question 2?

## Conclusion

Follow the lab report guide to write a conclusion on this lab.

Submit any additional excel or graphical analysis data your instructor requests along with your report.

Conclusion