☐PHYS115 ☐PHYS121 ☒PHYS123
☐PHYS116 ☐PHYS122 ☐PHYS124
Lab Cover Letter

Author (*You*) Wolf Mermelstein   Signature: _____

I declare that this assignment is original and has not been submitted for assessment elsewhere, and acknowledge that the assessor of this assignment may, for the purpose of assessing this assignment: (1) reproduce this assignment and provide a copy to another member of faculty; and/or (2) communicate a copy of this assignment to a plagiarism checking service (which may then retain a copy of this assignment on its database for the purpose of future plagiarism checking).

Lab Partner(s)   Christopher Richner, Lily Kagy

Date Performed   October 25, 2023   Date Submitted   October 31, 2023

Lab (*such as #1: UNC*)   #5: RKE

TA: Olivia Green

GRADE (*to be filled in by your TA*) See your TA for detailed feedback.

An '*x*' next to a subcategory means you need to improve this aspect of your work.

Paper Subtotals (points)

(   ) *General* (6)
_____ Sig. figs.
_____ Units
_____ Clarity of Presentation
_____ Format

(   ) *Abstract* (4)
_____ Quantity or principle
_____ How measurement was made
_____ Numerical Results
_____ Conclusion

(   ) *Intro & Theory* (9)
_____ Basic principle
_____ Main equations to be used
_____ Apparatus
_____ What will be plotted
_____ Fitting parameters related

(   ) *Exp. Procedures* (15)
_____ Description
_____ Stating and justifying uncertainties
_____ Data Record
_____ Quality of Lab Work

(   ) *Analysis & Error Analysis* (20)
_____ Discussion
_____ Equations & Calculations
_____ Presentation inc. Graphs, Tables
_____ Results Reported & Reasonable
_____ Underlined items addressed

(   ) *Discussion & Conclusions* (6)
_____ Numerical comparison of results
_____ Logical conclusions
_____ Discussion of pos. errors
_____ Suggestions to reduce errors

(   ) **Paper Total (60 points)**
(30 points for CME or EPF)

(   ) **Notebook (10 points)**
_____ Format (*proper style, following directions*)
_____ Apparatus (*brief description of equipment, including sketches*)
_____ Data (*including computer file names and manually recorded data*)
_____ Experimental Technique (*describing your procedures; stating & justifying uncerts.*)
_____ Analysis (*results and errors*)

(   ) **Worksheet(s)/Fill-in-the-Blank-Report (30 points)** *if applicable*

(   ) **Adjustments** – late submissions, improper procedures, etc. – or bonus points for exceptional work.

(   ) **Total Grade**

Graded by _____ (TA's initial)

Abstract

content...

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1 Introduction

2 Procedure

3 Results

4 Analysis

5 Conclusion

Acknowledgments

References

[1] Resnick Halliday and Walker. *Fundamentals of Physics*. Addison-Wesley Professional, 6 edition, 2023.

[2] D. Schultz. *General Physics I: Mechanics Lab Manual*. CWRU Bookstore, Spring 2004.