

☐ **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 uncersts.*)
 ____ 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*)