

PHYSICS 4AL

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**EXPERIMENT 6 & 7: HARMONIC OSCILLATOR: PHYSICAL  
PENDULUM AND WAVES ON A VIBRATING STRING**

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# Contents

Abstract . . . . .	2
Introduction . . . . .	3
Methods . . . . .	3
Analysis . . . . .	3
Derivations . . . . .	3
Plots and Graphs . . . . .	3
Conclusion . . . . .	3
References . . . . .	4

# **INVESTIGATING RESONANT FREQUENCY IN DAMPED AND UNDAMPED OSCILLATIONS**

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## **INTRODUCTION**

## **METHODS**

## **ANALYSIS**

### **Derivations**

### **Plots and Graphs**

## **CONCLUSION**

**REFERENCES**

1. Campbell, W. C. et al. Physics 4AL: Mechanics Lab Manual (ver. April 3, 2017). (Univ. California Los Angeles, Los Angeles, California).