

Title of the experiment

PHYS 47100 Lab No. x

Your Name

January 1, 2022

Abstract

Brief explanation of the experiment.

1 Introduction

(This is all just example text. Don't copy it.)

Around 1590 Galileo was said to have dropped some objects of a tower in Pisa Italy... [1].
The results from the experiment (even if it never really happened) are very important.

2 Theory

Newton's theory of gravity had not yet been figured out at this point in history.

We now know it can be expressed in the following way.

$$F_G = G \frac{m m_E}{R_E^2} \quad (1)$$

where G is the universal gravitational constant, m the mass that's falling, m_E is the mass of the Earth, and R_E is the radius of the Earth.

Equation 1 can then be used to show that the acceleration for any object is the same.

3 Methods

No one was taking good notes when Galileo dropped the objects, so we don't have a good record. You should take better notes so you can write out exactly what you did.

4 Results and Analysis

Describe all your results after presenting them. A short Table 1 is below:

Table 1: Put captions on tables too.

Time, t (s)	Distance, $d(\pm 0.05 \text{ m})$	Speed, v (m/s $\pm 5\%$)
0	0	0
1	4.9	9.8
2	19.6	19.6
3	44.1	29.4



Figure 1: The Supposed tower in Pisa, Italy.

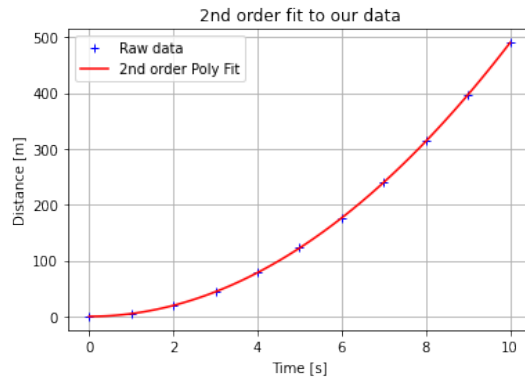


Figure 2: A nice little plot.

5 Conclusion

Put a bow on it.

References

Author, A.N and Another, A. N., 2010, MNRAS, 431, 28.

Appendix:

Here you can put links to external things you did, like colab notebooks or data sets you generated.