A Template for Course Projects

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**Abstract**

A short summary of your paper.

# 1 Introduction

Describe the scene or event from popular culture that you are studying. What physics do you need to understand it? Here’s a citation of a random paper [1] to show you how to do it.

# 2 Methods

Set up your equations, describe any approximations you’re using and how you will solve everything.

# 3 Results

Explain what you find from your analytical and numerical calculations.

# 4 Discussion

How do your results fit into the big picture as described in section 1?

# A Appendix

You must include your computing code here.

# References

[1] S. Perlmutter et al. [Supernova Cosmology Project Collaboration], “Measurements of Ω and Λ from 42 high redshift supernovae,” Astrophys. J. 517, 565 (1999) doi:10.1086/307221 [astro-ph/9812133].