

THESIS TITLE
SECOND LINE IF NECESSARY

by

DILRAJ GHUMAN

A thesis submitted to the
Department of Physics, Engineering Physics and Astronomy
in conformity with the requirements for
the degree of Master of Science

Queen's University
Kingston, Ontario, Canada

April 2021

Copyright © Dilraj Ghuman, 2021

Abstract

This is my abstract.

Acknowledgments

Blah blah blah.

Chapter 1

Introduction

1.1 Neutrinos

1.2 Neutrino Telescopes

Chapter 2

The Pacific Ocean Neutrino Explorer

2.1 Detectors

2.1.1 Geometry

2.2 Ocean Networks Canada

Chapter 3

Simulation

- 3.1 IceCube Framework
- 3.2 Simulating Neutrinos
- 3.3 Simulating Muons
- 3.4 Detector Response

Chapter 4

Reconstruction

4.1 Linefit

4.2 Likelihood

Chapter 5

Results

5.1 Likelihood

Chapter 6

Summary and Conclusions

6.1 Summary

6.2 Future Work

6.3 Conclusion