This is the title of the dissertation

Ву

Javier Greenberg

Dissertation

Submitted to the Faculty of the

Graduate School of Vanderbilt University
in partial fulfillment of the requirements

for the degree of

DOCTOR OF PHILOSOPHY

in

Physics and Astrophysics

June 2019

Nashville, Tennessee

Approved:	Date:
Name 1, Ph.D.	
Jorge Alvarez, Ph.D.	
Daniel Mitchell, Ph.D.	

Stephen Hawking, Ph.D.

Neil Degrasse Tyson, Ph.D.

Dedication

Acknowledgment

TABLE OF CONTENTS

	Page
Dedication	. ii
Acknowledgment	. iii
LIST OF TABLES	. vi
LIST OF FIGURES	. vii
Chapter	. 1
1 Introduction	. 1
1.1 Section 1	. 1
1.1.1 Subsection 1	. 1
2 Chapter 1	. 2
2.1 Section 1	. 2
2.1.1 Subsection 1	. 2
3 Chapter 2	. 3
3.1 Section 1	. 3
3.1.1 Subsection 1	. 3
4 Chapter 3	. 4
4.1 Section 1	. 4
4.1.1 Subsection 1	. 4
5 Chapter 4	. 5
5.1 Section 1	. 5
5.1.1 Subsection 1	. 5
6 Future Work	. 6
6.1 Work in Progress	. 6
6.2 Conclusion	. 6

BIBLIOGRAPHY	7
Appendix A Appendix A	8

LIST OF TABLES

Table

LIST OF FIGURES

Figure

Introduction

1.1 Section 1

Chapter 1

2.1 Section 1

Chapter 2

3.1 Section 1

Chapter 3

4.1 Section 1

Chapter 4

5.1 Section 1

Future Work

- 6.1 Work in Progress
 - 6.2 Conclusion

BIBLIOGRAPHY

Appendix A

Appendix A