# An Analysis of Missing Transverse Momentum Triggers for Improving Efficiency at the ATLAS Experiment at CERN

by

#### Joseph Corrado

Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Bachelors with Honors

> in the Department of Physics Faculty of NYU Physics

© Joseph Corrado 2019 NEW YORK UNIVERSITY Spring 2019

Copyright in this work rests with the author. Please ensure that any reproduction or re-use is done in accordance with the relevant national copyright legislation.

#### Approval

Name: Joseph Corrado

Degree: Bachelors with Honors (Physics)

Title: An Analysis of Missing Transverse Momentum

Triggers for Improving Efficiency at the ATLAS

Experiment at CERN

**Examining Committee: Chair:** Allen Mincer

Senior Supervisor

Professor

Kyle Cranmer

Professor

Daniel Zwanziger

Dean of Undergraduate Studies

Professor

Date Defended: May 20th, 2019

#### Abstract

This is a blank document from which you can start writing your thesis.

#### Keywords:

#### Dedication

This is an optional page.

# Acknowledgements

This is an optional page.

### Table of Contents

| Approval          | ii   |
|-------------------|------|
| Abstract          | iii  |
| Dedication        | iv   |
| Acknowledgements  | v    |
| Table of Contents | vi   |
| List of Tables    | vii  |
| List of Figures   | viii |
| 1 Introduction    | 1    |
| Bibliography      | 2    |
| Appendix A Code   | 2    |

#### List of Tables

# List of Figures

#### Chapter 1

#### Introduction

By default, only works cited in the text will be added to the bibliography [?].

## Appendix A

# $\mathbf{Code}$