

BOSTON UNIVERSITY
GRADUATE SCHOOL OF ARTS AND SCIENCES

Dissertation

**MEASUREMENT OF THE ANOMALOUS MAGNETIC
MOMENT OF THE POSITIVE MUON TO .SOMETHING
PARTS PER BILLION**

by

NICHOLAS BRENNAN KINNAIRD

B.S., University of Texas at Austin, 2013

B.S., University of Texas at Austin, 2013

M.A., Boston University, 2016

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Approved by

First Reader

B. L. Roberts, PhD
Professor of Physics

Second Reader

R. M. Carey, PhD
Professor of Physics

Third Reader

J. P. Miller, PhD
Professor of Physics

Dedication

I dedicate this thesis to

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Janusz Konrad

Professor

ECE Department

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(Order No.)

NICHOLAS BRENNAN KINNAIRD

Boston University, Graduate School of Arts and Sciences, 2019

Major Professor: B. L. Roberts, Professor of Physics

ABSTRACT

Have you ever wondered why this is called an *abstract*? Weird thing is that its legal to cite the abstract of a dissertation alone, apart from the rest of the manuscript.

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List of Abbreviations

CAD	Computer-Aided Design
CO	Cytochrome Oxidase
DOG	Difference Of Gaussian (distributions)
FWHM	.....	Full-Width at Half Maximum
LGN	.....	Lateral Geniculate Nucleus
ODC	.....	Ocular Dominance Column
PDF	.....	Probability Distribution Function
\mathbb{R}^2	.....	the Real plane

Chapter 1

Introduction

1.1 Background

1.1.1 Definitions

1.1.2 Experiment History

1.2 Theory

1.2.1 QED

1.2.2 Weak

1.2.3 Hadronic

1.2.4 BSM

(Lamport, 1985)

Chapter 2

Muon $g-2$ at Fermilab, E989

2.1 Principle Technique

Chapter 3

Magnetic Field Measurement

3.1 Trolley

Chapter 4

Straw Tracking

4.1 Track Finding

4.2 Track Fitting

4.3 Track Extrapolation

Chapter 5

ω_a Measurement

5.1 Data

5.2 Spectra Making

5.2.1 Clustering

5.2.2 Histogramming

5.3 Fitting

5.4 Systematic Errors

Chapter 6

Conclusion

6.1 Final Value

Appendix A

Proof of xyz

This is the appendix.

References

Lamport, L. (1985). *TEX—A Document Preparation System—User’s Guide and Reference Manual*. Addison-Wesley.

CURRICULUM VITAE

Joe Graduate

Basically, this needs to be worked out by each individual, however the same format, margins, typeface, and type size must be used as in the rest of the dissertation.