

BOSTON UNIVERSITY  
COLLEGE OF ENGINEERING

Dissertation

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

by

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Do I include my BU masters degree here?

Submitted in partial fulfillment of the  
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**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 A few remarks before you start

Please read the short pointers below and on the subsequent pages; this will help you avoid frustrations when submitting the final dissertation to the library.

Your thesis should have 1.5in left and top margins, and 1in right and bottom margins. Getting this right is tricky since it may depend on your particular Latex installation. Most likely you will need to adjust some of the dimensions set up at the beginning of "bu\_ece\_thesis.sty" in this folder. Basically, every installation should have the base margin of 1in at the left and top, but this is not always the case. For example, the TexStudio/MiKTeX installation this document was set up on, has the default top margin of 0.3125in and so an additional margin of 0.6875in was added via `\topmargin`. In order to adjust these dimensions, you may want to follow these steps:

- compile the document into PDF,
- open the document in Acroread, set it to full-page viewing and magnification to 100%
- navigate to a "full" page with the text extending from the very top to the very bottom and full-width left to right,
- measure the margins and adjust accordingly,

- if you are planning to print a hardcopy, you need to make sure to select "Page scaling" to "None" in Acrobat.

Another issue that BU librarians may complain and you are likely to encounter are long URLs or other unbreakable text. In case of long URL addresses, you should use the URL package; please see suitable documentation on-line.

However, if you encounter a long unbreakable word (e.g., foreign) the URL package does not help. Have a look at the example extending into the page margin:

*Consider the following Java-JDT plugin name in German: "‘Plugin-Entwicklungsumgebung’".*

Clearly, this is a problem, and BU librarians will complain. One way of fixing this issue is to enclose the offending paragraph in `\begin{sloppypar}` and `\end{sloppypar}`, resulting in the following outcome:

*Consider the following Java-JDT plugin name in German: "‘Plugin-Entwicklungsumgebung’".*

Indeed, although the paragraph spacing becomes sloppy, at least you can hand in the thesis!

LaTeX has a steep learning curve. You can use the original book by Lamport to learn more (Lamport, 1985), but there are many on-line resources with excellent instructions and examples. Just Google a LaTeX topic you would like to explore.

As far as editing and compilation of LaTeX sources, if you have not found one yet, TexStudio seems to be quite popular.

## 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.