Models of radiative neutrino mass and lepton-flavour non-universality

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of the requirements of the degree of

Doctor of Philosophy

School of Physics
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Abstract

This is the beginning of a long journey to finishing the PhD.

Draft compiled on 2020/08/09 at 02:17:00

Declaration

This is to certify that

1. the thesis comprises only my original work towards the PhD,
2. due acknowledgement has been made in the text to all other material used,
3. the thesis is less than 100,000 words in length, exclusive of tables, maps, bibliographies and appendices.

John Gargalionis, September 2020

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Acknowledgements

I would like to thank my chicken.

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For science.

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1 Introduction

1.1 Introduction

This is a test of *something with an apple* that I would like [1]. The following is $4a+5 = 13$ some inline math and `this` and we did in in Python.

$$\int_{-\infty}^{\infty} \frac{1}{(2\pi\hbar)^3}\varphi(p)dp \,. \tag{1.1}$$

We need some sans serif **words** here too. Then we need to check **what** the bold looks like.

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2

Model-building from effective operators

2.1 Introduction

This is a test of *something with an apple* that I would like [1]. The following is $4a+5 = 13$ some inline math and `this` and we did in in Python.

$$\int_{-\infty}^{\infty} \frac{1}{(2\pi\hbar)^3}\varphi(p)dp \,. \tag{2.1}$$

We need some sans serif **words** here too. Then we need to check **what** the bold looks like.

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A

The Force Awakens

A.1 Introduction

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Definition of Symbols and Acronyms

D

DFT density functional theory

L

lipsum Lorem Ipsum, a special type of fudge

dolor No idea why

ibit Sounds right, doesn't it?

P

π (π) Greek letter pi, Π does this work?

R

radial distribution function ($g(r)$)

RDF radial distribution function

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Bibliography

[1] S. Weinberg, *A Model of Leptons*, *Phys. Rev. Lett.* **19** (1967) 1264–1266.