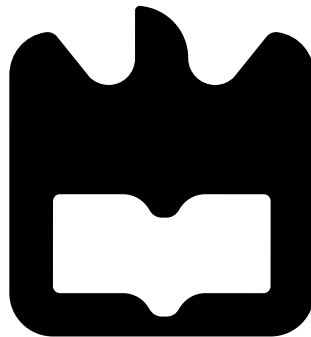




**João Pedro Dias  
Rodrigues**

**Title pending ;\_;" A Study of possible extensions of  
the Standard model based on multiple Higgs  
Models"**





## **o júri / the jury**

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**agradecimentos /  
acknowledgements**

Honestamente acho que isto vai ter que ser escrito antes da entrega

Honestly this will be written in english translated poorly from above :)



**Resumo**

Esta parte esta em pt





## Abstract

The Standard Model of particle physics has been for some time now recognized as a placeholder theory. Too many problems have been propping up over the years, such as the strong CP problem, neutrino oscillations, matter–antimatter asymmetry, the nature of dark matter and dark energy and most recently the [existence of gravitational waves background ?](#). In response many theories have been proposed to deal with each one of these problems. However, it's important to realise that these are not independent problems and as such we must search for a way to tackle all of these. Here we propose a simple model and look into some (maybe all?) of these problems.



# Contents

## List of Figures

## List of Tables

## Introduction

Standard Model

BLSM



3HDM

## Conclusions