

# Searches for invisibly decaying Higgs bosons with the CMS detector

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# Abstract

## Declaration

This dissertation is the result of my own work, except where explicit reference is made to the work of others, and has not been submitted for another qualification to this or any other university. This dissertation does not exceed the word limit for the respective Degree Committee.

Patrick Dunne

## Acknowledgements

# Preface

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# Chapter 1

## Introduction

Let's cite something [\[1\]](#)

# Chapter 2

## The CMS experiment

### 2.1 The LHC

### 2.2 The CMS experiment

### 2.3 Trigger system

## Chapter 3

# Event Reconstruction

## Chapter 4

# Search for invisibly decaying Higgs bosons



# Bibliography

- [1] S. Weinberg, “A MODEL OF LEPTONS”, *Phys. Rev. Lett.* **19** (1967) 1264–1266.

## List of Acronyms