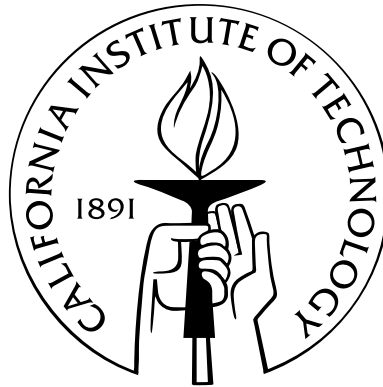


# Search for Dark Matter Direct Production in proton-proton collisions at $\sqrt{s} = 8$ TeV With the CMS Detector at the LHC

Thesis by  
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In Partial Fulfillment of the Requirements  
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# Abstract

A search for dark matter (DM) is carried out....

## 0.1 Introduction

Here is the text of your introduction.

$$\alpha = \sqrt{\beta} \tag{1}$$

## 0.2 The Large Hadron Collider

## 0.3 The Compact Muon Sollenoid

### 0.3.1 The Tracker System

### 0.3.2 The Electromagnetic Calorimeter

### 0.3.3 The Hadronic Calorimeter

### 0.3.4 The Superconducting Solenoid

### 0.3.5 The Muon Chambers

## 0.4 Physics Object Reconstruction

## 0.5 Dark Matter and Weakly Interacting Particles

### 0.5.1 Introduction

### 0.5.2 Cosmological Preliminaries

### 0.5.3 Observational Evidence for Dark Matter Existance

### 0.5.4 Supersymmetry

### 0.5.5 Simplified Models

### 0.5.6 Effective Field Theories at the LHC

Write your subsection text here.

## 0.6 Conclusion

Write your conclusion here.