

# Measurement of Central Exclusive Production with Roman Pot detectors in diffractive proton-proton interactions at $\sqrt{s} = 200 \text{ GeV}$

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#### Abstract

In this note we present an analysis of the Central Exclusive Production (CEP) process using the data from proton-proton collisions collected in 2015. This data was collected using the Roman Pot detectors which ensured efficient triggering and measuring diffractively scattered protons. We describe all intermediate stages of analysis involving extraction of the acceptance and effciency corrections, comparison of data with Monte Carlo simulations of detector response, and study of systematic uncertainties. Finally, we show the physics outcome of the analysis.

## DRAFT

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## 1. Introduction

### 1.1 Bla bla

Some introduction

### 1.2 Other Bla bla

Some introduction [1]

## 2. Data set

### 2.1 Bad runs

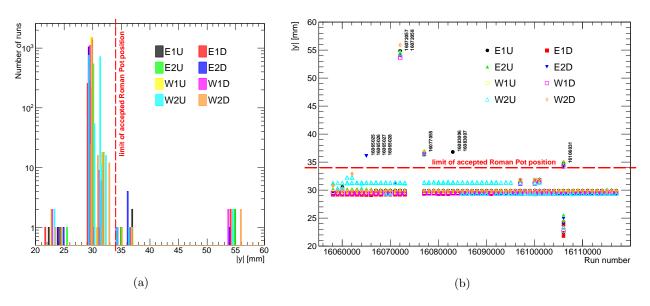


Figure 2.1: map of elastic proton hits in .

## References

[1] **STAR** Collaboration, K. Ackermann et~al., "STAR detector overview," Nucl.Instrum.Meth. **A499** (2003) 624–632.