

# Chapter 1

## The Compact Muon Solenoid Experiment

### 1.1 The Detectors and Their Operating Principles

#### 1.1.1 Tracking System

Pixel Detector

Silicon Strip Tracker

#### 1.1.2 Electromagnetic Calorimeter

#### 1.1.3 Hadronic Calorimeter

#### 1.1.4 Muon System

#### 1.1.5 Far Forward Calorimetry

### 1.2 Triggering, Data Acquisition, and Data Transfer

#### 1.2.1 Level 1 and High Level Trigger Systems

#### 1.2.2 Data Acquisition System

#### 1.2.3 Data Processing and Transfer to Computing Centers

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