

CMS DETECTOR

Total weight : 14,000 tons
Overall diameter : 15.0 m
Overall length : 28.7 m
Magnetic field : 3.8 T

Return yoke

Silicon tracker

Superconductive solenoid

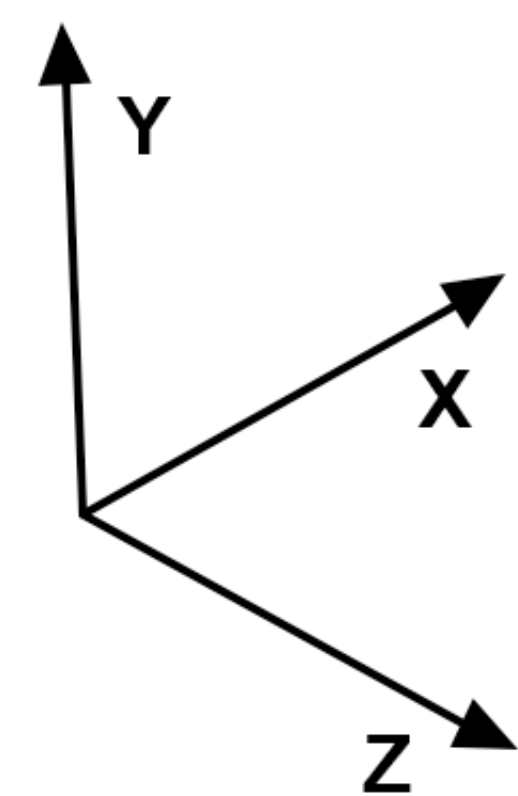
Muon chambers

Preshower

Forward calorimeter

Crystal ECAL

HCAL



CRYSTAL ECAL (ECAL)
~76,000 scintillating crystals

HADRON CALORIMETER (HCAL)
Brass + Plastic scintillator ~7,000

SILICON TRACKERS
Barrel: 414 Silicon Detectors ~66M channels
Endcaps: 200m² ~9.6M channels

Muon chambers
Barrel: 250 Drift Tubes
Endcaps: 468 Cathode Strip, 432 Resistive Plate Chambers

Preshower
Silicon strips ~10x10cm ~157,000 channels

FORWARD CALORIMETER