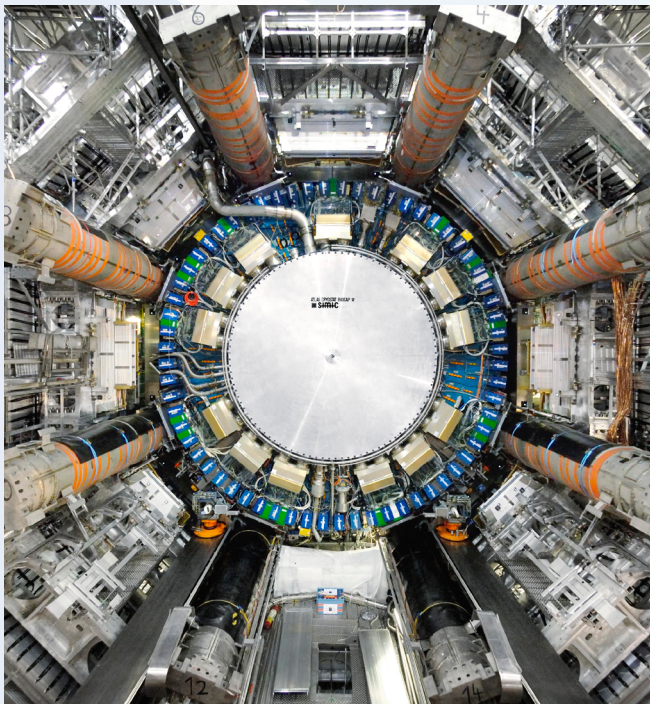
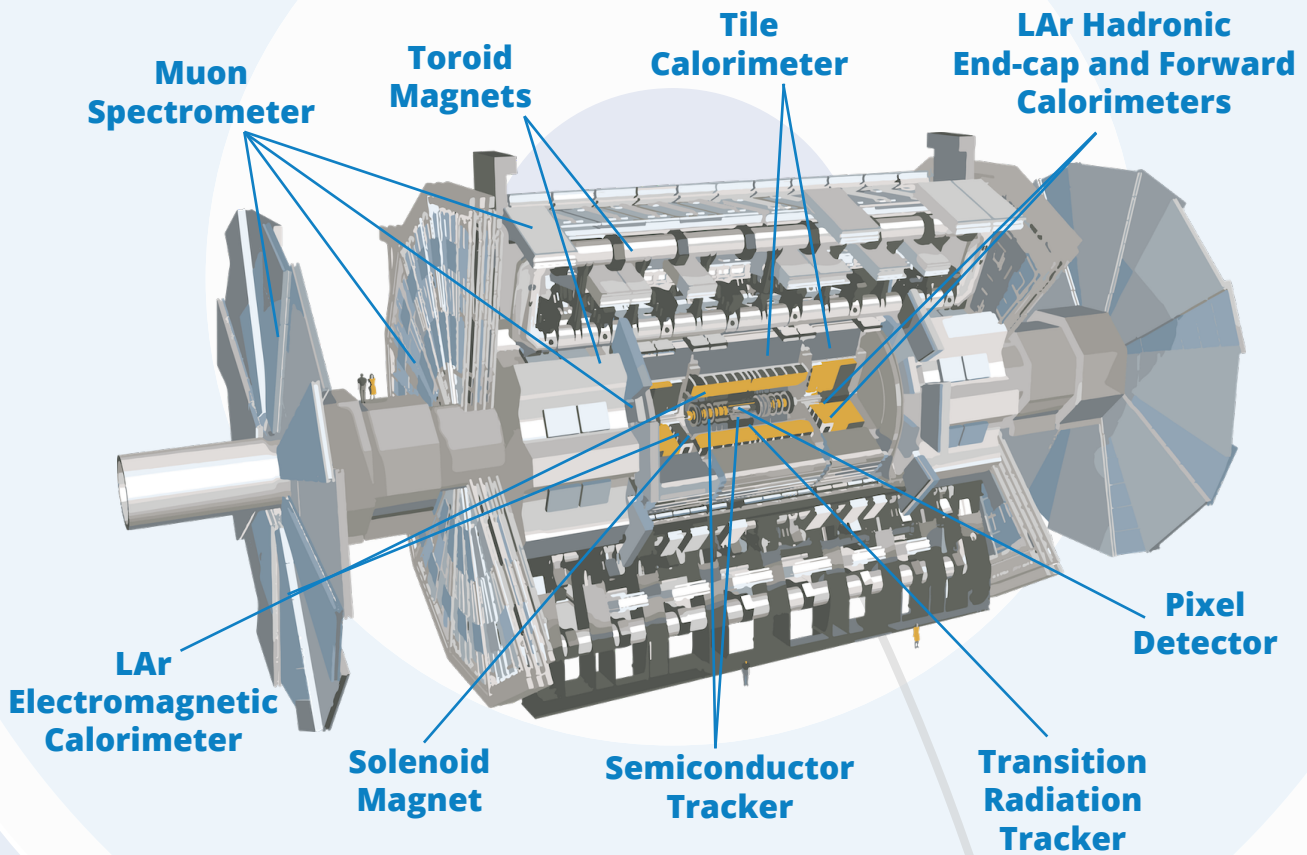


DETECTOR OVERVIEW



ATLAS is the largest detector ever constructed for a particle collider: 46 m long and 25 m in diameter. Its construction pushed the limits of existing technology.

ATLAS is designed to record the billions of high-energy proton or ion collisions at the LHC. New particles fly out from the collision point in all directions and interact with the different ATLAS sub-detectors.

Each sub-detector makes up a different layer of the detector and plays a unique role. More than 100 million sensitive electronics channels are used to record the particles produced by the collisions, which are then analysed by ATLAS scientists to identify and reconstruct individual particles.