The Time-of-Flight Detector for the ALICE experiment

ALICE-TOF collaboration

Presented by: M.C.S. Williams

Abstract

The selected device for the ALICE Time-of-Flight is the Multigap Resistive Plate Chamber. This detector, consisting of a stack of glass plates, has a time resolution between 60 and 80 ps. The ALICE Time-of-Flight array will cover an area of 150 square metres and contain 160,000 channels. The detector will be built from 1,600 strips, each with an active area of 120 x 7 cm^2 and 96 readout pads. The design and the latest results from testing prototype strips will be discussed.