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ASSEMBLY AND CONSTRUCTION OF A MULTI-GAP RESISTIVE PLATE CHAMBER FOR THE DETECTORS LAB OF UNAM

In this work we report the procedure of the design, manufacture and assembly of a Multigap Resistive Plate Chamber at the detectors lab of ICN-UNAM. This detector consists of a stack of 5 parallel thin resistive plates (glass). The array is placed inside a hermetic box which is filled with a gas mixture of 5% SF6 and 95% freon. The main objective of this project is to reproduce technology which is used in ALICE's Time Of Flight (TOF) system[1] at the lab and introduce young students to high energy physics research.

[1] A. Akindinov et al., "Construction and test of the MRPC detectors for TOF in ALICE", Nucl. Inst. Meth. A602 (2009) 658-664.

Vidyo?

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