

## **Velocity measurement of cosmic muons using INO RPC detector stack**

*Wednesday, 10 February 2010 17:00 (2 hours)*

The India-based Neutrino Observatory (INO) collaboration is planning to build a glass RPC based magnetised iron calorimeter (ICAL). A prototype detector stack comprising of 12 RPCs of 1m x 1m in area is setup to track cosmic ray muons. In order to demonstrate its capability to distinguish between up-going and down-going particles, we measured the velocity of the cosmic muons recorded in this stack. We describe in this paper the detector setup, measurement procedure, calibration and results obtained.

**Primary author:** Mr PAL, Sumanta (Tata Institute of Fundamental Research, Mumbai)

**Presenter:** Mr PAL, Sumanta (Tata Institute of Fundamental Research, Mumbai)

**Session Classification:** Poster session