Contribution ID: **536**   Type: **Poster**

Double Chooz Physical Environment Monitoring System

Thursday 24 May 2012 13:30 (4h 45m)

The Double Chooz experiment will measure reactor antineutrino flux from two detectors with a relative normalization uncertainty less than 0.6%. The Double Chooz physical environment monitoring system records conditions of the experiment's environment to ensure the stability of the active volume and readout electronics. The system monitors temperatures in the detector liquids, temperatures and voltages in electronics, experimental hall environmental conditions, magnetic field, radon concentrations in the air, and phototube high voltages. The system scans all channels automatically, stores data in a common database, and warns of changes in the detector's physical environment. The design and performance of the Double Chooz physical environment monitoring system is presented.

Student? Enter 'yes'. See http://goo.gl/MVv53

yes

Author: Ms PI-JUNG, Chang (Kansas University)

Co-authors: Dr MCKEE, David (Kansas University); Prof. HORTON-SMITH, Glenn (Kansas Univeristy); Prof. CONRAD, Janet (MIT); Dr WINSLOW, Lindley (MIT)

Presenter: Ms PI-JUNG, Chang (Kansas University)

Session Classification: Poster Session

Track Classification: Online Computing (track 1)