

Status of the OPERA neutrino experiment

Friday, 17 July 2009 12:15 (20 minutes)

The OPERA long-baseline oscillation experiment is located in the underground Gran Sasso laboratory in Italy. OPERA has been designed to observe $\nu\text{-}\mu \rightarrow \nu\text{-}\tau$ appearance in the CNGS $\nu\text{-}\mu$ beam, 730 km away from its source at CERN. The apparatus consists of a large set of emulsion-lead targets combined with electronic detectors. First runs in 2007 and 2008 helped checking that detector and related emulsion facilities are fully operational and led to successful first analysis of collected data. The talk, after a short description of the OPERA setup, will present an updated status report on data reconstruction and analysis applied to present samples of neutrino events.

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Session Classification: I. Neutrino Physics

Track Classification: Neutrino Physics