

## Recent results from the OPERA experiment

*Monday, 9 September 2013 16:00 (20 minutes)*

“The OPERA experiment has been designed to perform the first detection of neutrino oscillations in the  $\text{Nu}_\mu \rightarrow \text{Nu}_\tau$  channel, in direct appearance mode through the event by event detection of the tau lepton produced in  $\text{Nu}_\tau$  Charged Current interactions. OPERA is a hybrid detector, made of emulsion/lead target elements and of electronic detectors, placed in the CNGS muon neutrino beam from CERN to Gran Sasso, 730 km away from the source.

Neutrino interactions from the CNGS neutrino runs have been recorded from 2008 until the end of 2012. We shall report on the data sample analysed so far and give the latest OPERA results on  $\text{Nu}_\mu \rightarrow \text{Nu}_\tau$  and  $\text{Nu}_\mu \rightarrow \text{Nu}_e$  oscillation searches.”

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**Session Classification:** Neutrino Oscillations/ Neutrino Beams I

**Track Classification:** Neutrino Oscillations/ Neutrino Beam Physics