



# DESY Seminar

27 February 2007, 17:00, DESY Hörsaal

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## *Recent Results from OPERA*

The OPERA neutrino detector at the underground Gran Sasso Laboratory (LNGS) was designed to perform the first detection of neutrino oscillations in appearance mode, through the study of  $\nu_\mu$  to  $\nu_\tau$  oscillations. The apparatus consists of a lead/emulsion-film target complemented by electronic detectors. It is placed in the high-energy, long-baseline CERN to LNGS beam (CNGS) 730 km away from the neutrino source. In August and October 2006 a first run with CNGS neutrinos was successfully conducted. A first sample of neutrino events was collected, statistically consistent with the integrated beam intensity. After a description of the beam and of the detector, we report on the achievement of this milestone, and present an overview of the OPERA physics and of its future prospects.

- Tea and cookies will be served at 16:45 in the lobby.
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels also in the lobby.