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New results of the OPERA long-baseline experiment in the CNGS neutrino beam

Thursday 5 July 2012 15:00 (15 minutes)

The OPERA neutrino experiment is placed in the CERN Neutrino beam to Gran Sasso (CNGS), 730 km from the beam source at CERN, in the underground Gran Sasso Laboratory.

With the aim to measure the neutrino velocity on this baseline with higher accuracy than previous studies using accelerator neutrinos, dedicated upgrades of the CNGS timing system and of the OPERA detector were undertaken, as well as a high precision geodesy campaign to assess the neutrino baseline.

With data taken by OPERA from 2009 to 2011, they led to preliminary results in 2011, updated in May 2012. Further verifications and up-to-date results on the neutrino velocity using special short bunch beams will be presented.

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