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Latest results of OPERA

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The OPERA experiment, located in the underground Gran Sasso laboratory is designed to detect mu-neutrino to tau-neutrino oscillations in appearance mode. The detectors, placed on the long-baseline CERN to Gran Sasso neutrino beam (CNGS) 730 km away from the source, consists of an emulsion/lead target complemented by electronic detectors. OPERA has been taking data for five years, from 2008 to 2012, and on the analyzed statistics three tau candidate events were confirmed by end of 2013.

In this talk I will describe the detector as well as the special procedures used to locate the interactions vertices and detect different topologies. The three candidate events found so far and the results on oscillations with the latest analyzed statistics will be presented.

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