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Double Chooz: new results on the theta_13 mixing angle

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The Double Chooz experiment presented in November 2011 a first indication of reactor electron antineutrino disappearance consistent with neutrino oscillations. The observed deficit in the neutrino rate, along with the distortion of the neutrino energy spectrum, is interpreted as a consequence of the oscillation driven by the mixing angle theta_13. In 2012, a second analysis has been performed by the Double Chooz collaboration after 250 days of data taking confirming the oscillation effect and providing a more accurate best-fit value for the theta_13 angle. A detailed description of the Double Chooz latest results will be given in the talk.

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