

# Accurate neutrino measurements at short distances from reactors

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The unveiling of the reactor antineutrino anomaly in 2011 revived interest in measurements at very short distances from reactors with primary motivation to test the hypothesis of an oscillation towards a sterile neutrino of mass around 1 eV as an explanation for the observed deficit of neutrinos compared with predictions. An experimental program has been developed at commercial as well as research reactors. In this presentation, I will discuss the challenges of these experiments, carried out at the earth's surface and with reduced target volumes. I will review the oscillation analyses that test the sterile neutrino hypothesis in a model-independent way. We will see that through this generation of experiments, the neutrino spectra emitted by the reactors are measured with great precision, providing a new benchmark for future neutrino experiments as well as for the nuclear data involved in predictions.

## Poster prize

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