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The Angra Neutrino Project and double chooz: precise measuremet of theta_{13} and safeguards applications of neutrino detectors

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Abstract content

We present an introduction to the Angra Neutrino Project and to the experiment Double Chooz. These two experimental initiatives address the study of neutrino oscillations and particularly the precise determination of the mixing angle theta_13. Both will as well explore, already in an early stage, the issue of the use of neutrino detectors to monitor the reactor fuel composition, in the context of nuclear safeguards.

Double Chooz is currently being built in Les Ardennes, in the north of France, and will soon begin to take preliminary data.

The Angra Project, set up in a longer time scale, willl employ the reactors of the nuclear power complex in Brazil, located in Angra dos Reis, some 150 Km south from Rio de Janeiro.

Summary

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