

Neutrino quantum decoherence at reactor experiments.

Thursday 9 September 2021 17:00 (15 minutes)

Reactor experiments are well suited to probe the possible loss of coherence of neutrino oscillations due to wave-packets separation. We will first comment on how decoherence modifies neutrino oscillation probabilities. Then we will turn our attention to the reactor experiments RENO, Daya Bay and KamLAND and discuss how well these experiments can constrain decoherence effects. We will finally present expected sensitivities for the future experiment JUNO.

Working group

WG1

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