

Brazilian Participation in Determining the Essential Neutrino Nucleus Interaction Model

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For oscillation experiments searching for evidence of CP-violation via accelerator based oscillation experiments, the largest systematic will be the current very poor knowledge of neutrino nucleus interactions. In this presentation I'll outline the components of this model and show how no model can describe the accumulated experimental measurements. Brazilian participation in current and a new proposed experiment at Fermilab can help resolve the problem.