

Model-Independent electron antineutrino Short-Baseline Oscillations from Reactor Spectral Ratios

The existence of an additional, fourth neutrino mass eigenstate is being studied under different points of view. When considering the ratio of the spectra measured at different distances by DANSS and NEOS in a model independent,

a 3.7σ indication in favor of short-baseline electron antineutrino oscillations arises.

We discuss the implications of the model-independent NEOS+DANSS analysis for the reactor and Gallium anomalies

and the constraints that can be obtained on the theoretical reactor neutrino fluxes and Gallium detector efficiencies.

Session and Location

Monday Session, Poster Wall #184 (Ballroom)

Poster included in proceedings:

yes

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Track Classification: Poster (participating in poster prize competition)