

NuInt12 : Eighth International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region



Contribution ID: 128

Type: **Poster**

How much does MSW contributes to the reactor neutrino anomaly?

Thursday, 25 October 2012 18:00 (1h 30m)

Reactor neutrino experiments have observed a 5% deficit of electron anti-neutrino flux, when compared to the one predicted from nuclear physics as a product of the reactor's fission chains. One aspect that might have been overlooked in the literature is the contribution from extreme non-adiabatic effects coming from "decompression" when leaving the high density nuclear fuel rods. This work explores a analytic solution for this effect and presents its contribution to the reactor neutrino deficit.

Primary author: Prof. VALDIVIESSO, Gustavo (Universidade Federal de Alfenas)

Presenter: Prof. VALDIVIESSO, Gustavo (Universidade Federal de Alfenas)

Session Classification: Happy hour with posters

Track Classification: Happy hour with posters