

# 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, October 25, 2012 6:00 PM (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.

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**Session Classification:** Happy hour with posters

**Track Classification:** Happy hour with posters