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How much does MSW contributes to the reactor neutrino anomaly?

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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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