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## Reactor neutrino fluxes (update)

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In this talk I will present a review of the anti-neutrino spectra emitted from reactors. Knowledge of these and their associated uncertainties are crucial for neutrino oscillation studies. The spectra used to-date have been determined by either conversion of measured electron spectra to anti-neutrino spectra or by summing over all of the thousands of transitions that makeup the spectra using modern databases as input. The uncertainties in the sub-dominant corrections to beta-decay plague both method. Improving on current knowledge of the anti-neutrino spectra from reactors will require new experiments. Such experiments would also address the so-called reactor neutrino anomaly and the possible origin of the shoulder observed in the anti-neutrino spectra measured in recent high-statistics reactor neutrino experiments.

**Auteur principal:** Dr HAYES, Anna (Los Alamos National Laboratory)

**Orateur:** Dr HAYES, Anna (Los Alamos National Laboratory)

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