

## Oscillations of Moessbauer neutrinos

*Monday 8 December 2008 09:00 (25 minutes)*

We discuss the phenomenology of the Mössbauer neutrino experiment proposed recently by Raghavan. In particular, we will show that Mössbauer neutrinos do oscillate, in spite of their extremely small energy uncertainty. Using a quantum field theoretical approach, we will compute the combined rate of Mössbauer neutrino production, oscillation and detection, and discuss the arising coherence and localization conditions.

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**Session Classification:** Experimental Techniques