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Searches for Nonstandard Neutrino Oscillations at Nuclear Reactors

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Nuclear reactors have been workhorses for neutrino physics since its inception, and have been critical in establishing neutrino oscillations. While the three-oscillating-neutrino paradigm has been remarkably successful, long-standing anomalies at LSND, MiniBooNE, gallium experiments and reactor experiments may be pointing to the existence of new physics that can affect this phenomenon. In this talk, I will discuss how reactor experiments have contributed to this enterprise, particularly over the past decade. Moreover, I will outline the prospects for near-future endeavors in searching for nonstandard oscillation effects, emphasizing their role in the global neutrino physics program.

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