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Recent Reactor-Based Measurements of Theta13

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Several recent experiments have measured a significant deficit in electron antineutrinos at distances of 1-2 km from nuclear reactors. In the 3-neutrino framework, this deficit is attributed to a nonzero mixing angle theta13. Three ongoing experiments, Double Chooz, RENO, and Daya Bay, continue to improve their experimental precision. I will compare these experiments, focusing on common techniques for neutrino detection, challenges in making the measurement, and recent results.

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