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Double Chooz: latest lessons & results for reactor antineutrino detection.

Wednesday 9 April 2025 09:00 (45 minutes)

This presentation will highlight the latest results from the Double Chooz experiment at the EDF Chooz nuclear reactor in France. By utilizing full reactor power modulation data, Double Chooz achieves world-leading precision in reactor flux measurement and spectral characterization. Key findings, initially focused on the neutrino mixing angle θ13, demonstrate significant advancements in reactor antineutrino detection and monitoring during reactor on/off cycles. These results provide crucial insights for future antineutrino detection technologies.

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