

Automated calibration system for the Daya Bay reactor anti-neutrino experiment

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The Daya Bay reactor anti-neutrino experiment has made the most precise measurement of the neutrino mixing angle θ_{13} to date, using six identical gadolinium-loaded liquid scintillator detector modules. A fully automated calibration system was developed to give a comprehensive and robust calibration of detector response with multiple gamma and neutron sources. In this talk, I will describe the design, construction, and performance of the calibration system.

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