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The calibrations of the iDREAM detector

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The iDREAM (industrial Detector of Reactor Antineutrinos for Monitoring) has been developed as a prototype of the industrial detector for development reactor monitoring methods. The detector has been installed and commissioned at Kalinin NPP (Russia) at 20 m from the 3 GWth reactor core (third unit). The detector is a scintillator spectrometer. The calibration measurements play a crucial role for the further antineutrino analysis. A unique calibration system has been developed, which allows positioning a source along a vertical axis of the detector with a 2 mm precision. The calibrations with gamma-sources and a source of fast neutrons have been conducted on a regular basis.

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