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## **Reactor monitoring using a segmented antineutrino detector (PANDA)**

We have developed a small antineutrino detector, PANDA (Plastic Anti-Neutrino Detector Array), for the purpose of IAEA's safeguard against proliferation of nuclear weapons. PANDA has a segmented structure made of plastic scintillators, and three prototypes of PANDA were developed until now. The second prototype PANDA36 measured the difference in the reactor antineutrino flux between reactor ON and OFF above the ground outside the reactor building at Ohi Power Station. The latest result of PANDA36 analysis is reported in this poster. Besides, it describes the status of the third prototype PANDA64, which has been developed and tested for the next experiment.

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