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Measurement of the Reactor Antineutrino Flux and Spectrum at Daya Bay KARSTEN HEEGER, Yale University, DAYA BAY COLLABORATION — The Daya Bay reactor experiment uses eight antineutrino detectors deployed in three underground experimental halls at distances of about 0.4-2 km to detect electron antineutrinos from six commercial power reactors. Daya Bay has made a precision measurement of the neutrino oscillation parameters $\sin^2 2\theta_{13}$ and Δm^2_{ee} by measuring the relative difference in neutrino interaction rates between detectors in near and far experimental halls. Using data from three antineutrino detectors in the near experimental halls Daya Bay has recently made a high-statistics measurement of the reactor antineutrino spectrum. We will present Daya Bay's flux and spectrum measurement including the comparison to different flux models and methods for extracting a generic reactor antineutrino spectrum.

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