

Abstract Submitted
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Reactor Antineutrino Flux and Spectrum Shape from Daya Bay

JIM NAPOLITANO, Temple University, DAYA BAY COLLABORATION — The Daya Bay Reactor Neutrino Experiment has collected very large samples of $\bar{\nu}_e p \rightarrow e^+ n$ events, where the $\bar{\nu}_e$ are from the cores of six power plant reactors that undergo regular refueling. With 621 days of data, more than 1.2 million events of this type were detected. The collaboration has analyzed these data in terms of the absolute flux (addressing the “Reactor Neutrino Anomaly”), the spectrum shape (including the excess in the region of 5 MeV prompt energy), and other effects. This talk will summarize the results from our most recent analyses, and discuss new initiatives aimed at continuing to understand the fine detail of the reactor $\bar{\nu}_e$ spectrum.

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