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Photomultiplier Tube Assemblies For the Daya Bay Experiment

The Daya Bay Reactor Neutrino Experiment is expected to measure $\sin^2(2\theta_{13})$ to 0.01 or better by performing a relative measurement of flux and energy spectrum of antineutrinos observed with inverse β decay events in the near and far antineutrino detectors. The antineutrino detectors will be placed in water pools and surrounded by at least 2.5m of water to suppress background. The water pools are also served as Cherenkov counters for tagging cosmic-ray muons that can generate background. Details of the photomultiplier tube assemblies used in the antineutrino detectors and the water Cherenkov counters will be presented.

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