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The DAQ and Trigger Systems for the Daya Bay Reactor Neutrino Experiment

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The Daya Bay Reactor Neutrino Experiment will consist of seventeen separate detector subsystems distributed in three underground experimental halls. There will be eight PMT based anti-neutrino detectors (ADs), six water-Cherenkov detectors, and three RPC detector subsystems. Each will be readout using an independent VME crate with a self-contained trigger. A master trigger module will be deployed in each detector hall that will process and issue trigger signals between VME crates, as well as external trigger signals. A system overview will be presented along with design and performance details for the Daya Bay Reactor Neutrino Experiment DAQ and trigger systems.

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