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Monitoring PMT performance at RENO

At RENO, we have been taking data since August 2011 and monitoring the performance of RENO detectors using several radioactive sources which are deployed periodically into the detectors. For more than 800 days of data, we have found the decreasing quantum efficiency (QE) of photomultiplier tubes (PMT) due to light-flashing PMTs. In this talk, we present an observation of the PMT QE decrease in correlation with the PMT flashing rate.

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