

Abstract Submitted
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Search for High Energy Component of Reactor Flux NEILL
RAPER, Rensselaer Polytechnic Institute, DAYA BAY COLLABORATION — The objective of this analysis is to search for evidence of high energy neutrinos generated in the Daya Bay Nuclear Power Plant. As described in P. Huber Phys. Rev. C 84, 024617 (2011), even an imprecise determination of neutrino flux above 8 MeV can constrain reactor core models. Neutrino candidate events with energies above 8 MeV can be identified through the correlation with reactor power. Extrapolation to zero reactor power can be used to estimate background. We will report progress in the search for high energy neutrinos and discuss plans for future work.

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