Abstract Submitted
for the DNP08 Meeting of
The American Physical Society

Measurements of Liquid Scintillator and Water Properties for Daya Bay Detectors JOHNNY GOETT[1], Renssealer Polytechnic Institute, DAYA BAY COLLABORATION — The performance of water Cerenkov and scintillation detectors have a critical dependence upon the attenuation of light in the visible and near UV region of the electromagnetic spectrum (370-600 nm). New data has been obtained with a high precision apparatus constructed from simple materials. We will present measurements of the optical properties of liquid water and metal loaded liquid scintillators, with a focus on research and design for forthcoming neutrino experiments. The usefulness of this data will be demonstrated in the design of the Daya Bay experiments muon-veto and antineutrino detectors.

[1]on behalf of the Daya Bay Collaboration.

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Date submitted: 27 Jun 2008 Electronic form version 1.4