

## High Energy Physics - Experiment

# RENO: An Experiment for Neutrino Oscillation Parameter $\theta_{13}$ Using Reactor Neutrinos at Yonggwang

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The RENO experiment is a short baseline neutrino experiment in Korea aiming to measure the neutrino mixing angle  $\theta_{13}$  or set limit to  $\sin^2(2\theta_{13})$  less than 0.02. This document describes physics goals, experimental site, detector design, scintillator, electronics, calibration, simulation, and physics reach.

Comments: 126 pages, Technical Design Report

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