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## Electron Neutrino Charged-Current Interactions on I-127 in the COHERENT NaIvE Detector

There are only a handful of targets for which low energy charged-current neutrino-nucleus interactions have been observed. The measurement of these cross sections and their energy dependence can potentially test nuclear models and calculations, including studying  $g_A$  quenching through a weak process at a momentum transfer relevant for neutrinoless double beta decay. In 2016, COHERENT deployed a 185 kg NaI[Tl] prototype detector to study backgrounds for a ton-scale detector and to make an initial measurement of the inclusive charged-current cross section on  $^{127}\text{I}$ . Current detector and analysis status will be presented, along with plans for a ton-scale detector, potentially capable of simultaneously measuring the charged-current interaction on  $^{127}\text{I}$  and coherent elastic neutrino-nucleus scattering on  $^{23}\text{Na}$ .

### Mini-abstract

Updates from COHERENT's NaIvE prototype studying low-energy neutrino-nucleus interactions on NaI

### Experiment/Collaboration

COHERENT

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