

DNP19-2019-020023

Abstract for an Invited Paper
for the DNP19 Meeting of
the American Physical Society

The Neutrino Landscape: Neutrinos and the Nucleus

PHIL BARBEAU, Duke University

Over the last 40 years, only the neutrino has challenged the firmness of the Standard Model. Ongoing and planned searches for new physics in the neutrino sector will require dramatically increased sensitivity that stretch current capabilities often made possible with a judicious choice of an atomic nucleus to interact with the neutrinos. I will summarize a range of neutrino-nucleus interaction experiments of interest to the nuclear physics community.