

Abstract Submitted
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Precision (anti)neutrino scattering off nucleons and nuclei

ROBERTO PETTI, University of South Carolina — A technique has been recently proposed to address the main limitations of past neutrino scattering experiments. In particular, it allows precise measurements of high statistics samples of (anti)neutrino-hydrogen interactions and of various nuclear targets. The planned high intensity LBNF beams give access to a broad mixture of measurements of electroweak parameters, QCD and hadron structure of nucleons and nuclei, nuclear physics, form factors, structure functions and cross-sections, as well as searches for new physics or verification of existing outstanding inconsistencies.

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