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(Anti)neutrino-hydrogen and precision measurements

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 together with 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. A few examples of possible measurements will be discussed.

Working group

WG2

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