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**Neutrino interactions in the nuclear environment<sup>1</sup>**

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I will discuss two aspects of neutrino-nuclei interactions. First, how the knowledge of nuclear structure gained in electro-nuclear processes can help to improve the accuracies of neutrino interaction cross sections both in quasi-elastic and deep-inelastic kinematics. And secondly the potential of neutrino- nuclear scattering processes to study hadrons in the nuclear medium. One new direction of nuclear medium studies is the verification of the recent theoretical observation that protons are more energetic than neutrons in large  $A$  asymmetric nuclei. If the nuclear modification is related to the virtuality of bound nucleon then it follows from the above observation that proton structure modification should increase with nuclear asymmetry at large  $A$ . The possibility of selecting the protons from nuclear target gives an important advantage of neutrinos for probing such modifications.

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