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## Hadronic Tensor and Neutrino-Nucleon Scattering

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We consider a novel approach of calculating inclusive neutrino-nucleon scattering cross sections at low energies via the hadronic tensor on the lattice. This is relevant to the neutrino-nucleus scattering experiments such as DUNE at Fermilab. All the elastic, resonance, shallow and deep inelastic contributions can be covered. The inverse problem encountered in the calculation and several methods aiming to solve this problem is discussed. Nucleon form factors will be calculated using this approach to verify that the elastic scattering cross section from the form factors agrees with that from the hadronic tensor.

**Authors:** LIANG, Jian (University of Kentucky); LIU, Kehfei (University of Kentucky); YANG, yibo (University of Kentucky, US); Prof. DRAPER, Terrence (University of Kentucky)

Presenter: LIANG, Jian (University of Kentucky)

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