

Quantum Monte Carlo calculations of lepton-nucleus interactions

Saori Pastore

Physics Department, Washington University in St. Louis, MO, USA

Contact e-mail: saori.pastore@gmail.com

In this talk, I will report on recent progress in microscopic calculations of lepton-nucleus interactions. In particular, I will focus on a novel computational method, the Short-Time-Approximation, developed to evaluate inclusive (and “more exclusive”) nuclear responses induced by electrons and neutrinos, and connections to current experimental efforts in fundamental symmetries and neutrino physics.