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Multinucleon-neutrino interactions and the T2K experiment

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The T2K experiment is one of a new generation of neutrino physics experiments which is able to probe the structure of neutrino oscillations with unprecedented accuracy. In order to develop the precise measurements that are required to understand this new phenomenon, we need an accurate understanding of how neutrinos interact with conventional matter. My work focuses on developing and testing new Monte Carlo tools which will allow us to simulate interactions of neutrinos with multiple nucleons in the initial state. With these we hope to reduce the cross-section systematic uncertainties on the T2K measurements and extract more powerful results from the T2K data.

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