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Highlights from the Fermilab Workshop on Neutrino Event Generators

Friday 25 August 2023 09:30 (20 minutes)

Simulations of neutrino-nucleus scattering are a critical input to oscillation analyses and various other investigations in high-energy physics. Achieving the physics goals of future experiments will require substantial improvements to the precision of these simulations. In March of this year, a workshop was held at Fermilab that examined several major topics related to future development of neutrino event generators. These included streamlining implementation of theory enhancements, standardizing event formats and interfaces to beam simulations, extending tools for model comparisons to neutrino and electron cross-section data, and quantifying systematic uncertainties. This talk will present highlights from the workshop proceedings and the outlook for the future of the field.

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