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The GENIE Event Library Generator Interface

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The GENIE event generator is a well-integrated part of many experiments' simulation infrastructure, interacting with the neutrino flux model and the description of the experimental geometry. It is desirable to be able to simulate full events based on alternate neutrino generators, but these generators either lack these integrations or implement incompatible interfaces. GENIE 3.2 provides a new "EvtLib" module which allows seamless incorporation of the interaction physics from another generator within the GENIE framework by means of a library of pre-generated events. I will describe the design and usage of this module, using the integration of the GiBUU generator with NOvA as an example.

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