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NuTools for the LHC and Beyond

Testing neutrino mass models is a leading component of the LHC's new physics program, as well as for proposed successor experiments such as the ILC, CepC/CppC, and FCC. This challenge requires the engineering of new search strategies, employing novel production mechanisms, and ultimately the development of Monte Carlo (MC) simulation software that feed into modern tool chains. This includes, for example, the HeavyN, TypeIISeesaw, EffectiveLRSM, and VPrime FeynRules UFO libraries, which are now in wide-spread use by the High Energy community. In this talk, we give an overview of the available MC tools for simulating neutrino mass models in collider and DIS experiments.

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