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Modeling Tau Decays for the Energy and Luminosity Frontiers.

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The tau lepton is the heaviest of the known charged leptons and therefore provides a unique tool to probe electroweak interactions, low energy QCD and for searching for new physics. New physics may appear in decays with tau leptons in the final state or in decays of the tau lepton. A key ingredient for any physics programs involving the tau lepton is the modeling of the decay structure. In this paper, recent developments for the modeling of tau decays and the prospects for tau physics at the luminosity and energy frontier will be presented.

Author: NUGENT, Ian Michael (RWTH-Aachen)

Presenter: NUGENT, Ian Michael (RWTH-Aachen)

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