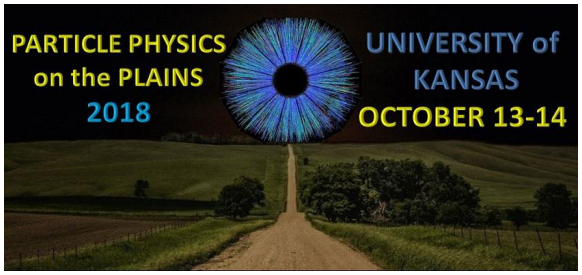

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A Comparative Study of Electroweak Higgs Boson Production at Future Hadron Colliders

Saturday 13 October 2018 11:35 (20 minutes)

The discovery of the Higgs boson has opened the door to the next phase of exploration in particle physics. Since the Higgs boson was found in July 2012 at CERN's Large Hadron Collider (LHC), many researches and experiments tried to measure its properties, making processes involving Higgs production interesting and important in many different ways.

By using a Monte Carlo event generator named Herwig 7, Higgs plus two jet production processes have been simulated with two different matrix elements, HJets++ and VBFNLO. Higgs plus two jet production was analyzed at 14 TeV, 33 TeV, and 100 TeV. Presented here are the differential cross section at the leading order and next-to-leading order with matched parton showers.

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