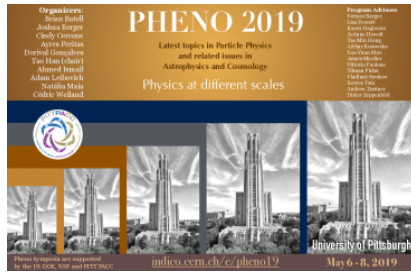


# Phenomenology 2019 Symposium



Contribution ID: 717

Type: **parallel talk**

## Heavy Neutrinos with Dynamic Jet Vetoes

*Tuesday 7 May 2019 14:45 (15 minutes)*

A qualitatively new search strategy for multi-lepton searches for heavy neutrinos at hadron colliders is presented. The analysis relies on an unusual (dynamic) implementation of a jet veto, one that discriminates on an event-by-event basis, and is applicable to searches for other new, colorless particles, e.g., smuons and doubly charged scalars. We show that the sensitivity to electroweak and TeV-scale heavy neutrinos at the CERN Large Hadron Collider can be improved by an order of magnitude, and can thus compete with dedicated flavor experiments. Prospects at proposed collider facilities are also presented.

## Summary

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**Session Classification:** Neutrinos II