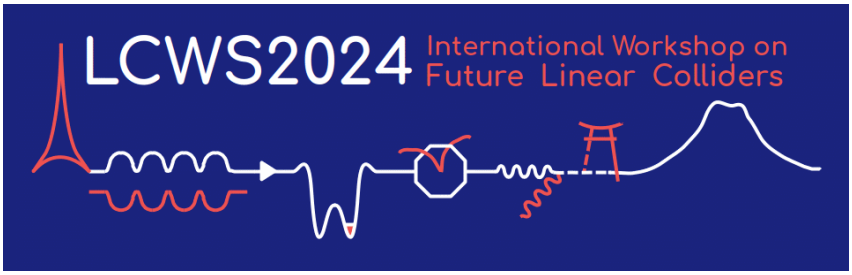

Contribution ID: **80** Type: **Oral presentation (in person)**

HNL at e+e- colliders

Wednesday 10 July 2024 11:20 (20 minutes)

Neutrinos can be a key to solving several cosmological problems, such as the mystery of the baryon-antibaryon asymmetry in the universe or the origin of dark matter. The existence of their heavier partners, the so-called heavy neutral leptons (HNL), is a well-motivated scenario which could also contribute to explaining the mass-generation mechanism for light neutrinos. Future lepton colliders, including e+e- linear machines, will offer the farthest discovery reach for these particles and allow for studying their features, probing the lepton-flavour universality and constraining their Dirac or Majorana nature. In this talk, we will show how to look for HNL with masses above the Z-pole at future lepton colliders and answer the fundamental questions concerning their properties.

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Track Classification: Physics and Detector: BSM, Global Interpretations