Contribution ID: 58 Type: ORAL

Measuring lepton number violation at future lepton colliders

Wednesday, 11 October 2023 16:20 (15 minutes)

Type I seesaw models generating small masses for the observed neutrinos predict not only heavy neutrinos but also the presence of lepton number violating (LNV) processes. After the discovery of these heavy neutrinos, it becomes essential to examine the amount of LNV in order to shed light on the corresponding neutrino mass-generating mechanism. We discuss the potential of future lepton colliders to not only discover LNV but also measure its size. Additionally, we comment on simple benchmark models able to capture the relevant physics with a minimal set of parameters.

Primary author: HAJER, Jan (Técnico Lisboa - Universidade de Lisboa)

Presenter: HAJER, Jan (Técnico Lisboa - Universidade de Lisboa)

Session Classification: Parallel - WG1-SRCH+FLAV

Track Classification: WG1-SRCH - Physics Potential: Feebly interacting particles, direct low mass

searches