

Long-lived Heavy Neutral Leptons at the LHC

Friday 13 January 2023 09:40 (35 minutes)

Long-lived particles are predicted in several beyond the Standard Model theories. Their signatures can be tested at the LHC main detectors (such as ATLAS or CMS), current and proposed far detectors (such as FASER or MATHUSLA), as well as other experimental facilities. I will comment on the phenomenology of displaced signatures and sensitivity reach of models predicting long-lived Heavy Neutral Leptons (HNLs), focusing on the minimal scenario as well as prospects within effective field theory.

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