



Contribution ID: 202

Type: **Plenary talks (by invitation only)**

Long-lived particles from neutrino mass models at LHC

Wednesday 19 July 2023 11:30 (30 minutes)

Motivated by the expected future progress in long-lived particle searches there has been a lot of activity recently from theorists studying models for LLPs. This talk concentrates on LLPs motivated by the observed smallness of neutrino masses. Examples are simple heavy neutral lepton models, motivated by different variants of the seesaw, or also supersymmetric models with R-parity violation. Since no new physics has been found so far at the LHC, effective field theory is the appropriate tool to search for BSM physics. NRSMEFT, ie. SMEFT extended by light right-handed neutrinos, is discussed and forecasts for LLP experiments are presented for NRSMEFT.

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