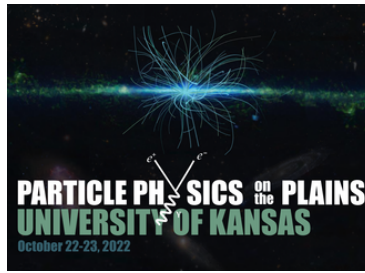


## Particle Physics on the Plains 2022 Part 2



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# Lepton Number Violation at the LHC

*Sunday 23 October 2022 12:15 (20 minutes)*

Existing searches for lepton number violation (LNV) suggest that lepton number is an approximate symmetry of nature. The LHC can provide a probe of  $L$  violation that is complementary to low-energy experiments. In this talk, we examine collider signatures of LNV. Using some illustrative models, we emphasize that a collider signature of  $L$  violation requires the existence of an observable non-zero lepton number in the final state.

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