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Prospects for Discovering LNV at the FCC (20'+5')

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Whether lepton number is a conserved or violated symmetry of nature remains one of the most pressing questions today, with far-reaching consequences across astrophysics, particle physics, and nuclear physics. If lepton number is indeed violated, it is also unknown whether it occurs at a scale accessible with laboratory experiments. The discovery of lepton number violation in the laboratory would have a monumental impact on understanding what lies beyond the Standard Model of Particle Physics. This talk gives a broad overview of the (current) projected sensitivity to discovering lepton number violation at the proposed Future Circular Collider program at CERN.

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