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Lepton Number Violation and Leptogenesis

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Leptogenesis provides an elegant unified framework to account for both the observed matter-antimatter asymmetry in the Universe and the smallness of the light neutrino masses. Low-scale seesaw models give an opportunity to test this idea in foreseeable laboratory experiments at the Energy and Intensity frontiers. We discuss one such class of models, based on a TeV-scale type-I seesaw mechanism naturally embedded in a Left-Right symmetric framework, and derive the leptogenesis constraints on the mass of the right-handed gauge boson.

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