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## TeV Scale Lepton number Violation and Baryogenesis

*Thursday, 4 December 2014 09:00 (45 minutes)*

I will discuss the possibility that physics of neutrino mass is a TeV scale phenomenon which can be probed at the LHC via the searches for right handed W-bosons and the heavy right handed neutrinos and other low energy experiments. The same TeV scale model also leads to successful leptogenesis as a way to understand the origin of matter in the universe.

Thus, the Large Hadron Collider can provide information not only on supersymmetry, extra space dimensions as well as the nature of dark matter but also on the physics behind the neutrino masses and the mechanism behind the origin of matter.

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