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## Why do we live in a Matter Dominated Universe?

*Wednesday, 9 April 2014 11:00 (25 minutes)*

With the discovery of neutrino oscillations, the existence neutrino masses have been established pointing towards new Physics beyond the Standard Model. New compelling questions are open for the future: is lepton number conserved? Is there CP-violation? Where does the observed leptonic flavour structure come from? After a very brief overview of the related phenomenological issues, I will discuss the physics beyond the Standard Model which may be responsible for neutrino masses and how this can be related to the origin of the baryon asymmetry in the leptogenesis framework.

**Presenter:** Prof. PASCOLI, Silvia

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