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Strong SO(10)-inspired leptogenesis: predictions and justification.

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Focusing on the SO(10)-inspired model of leptogenesis, I will show that a class of solutions respects the restrictive strong thermal leptogenesis requirements.

When strong thermal leptogenesis is achieved, pre-existing flavoured B-L asymmetries produced by potential external mechanism are completely washed out during the same leptogenesis. As a consequence the amount of Baryon Asymmetry produced is totally independent of the initial conditions, encoded in the state of the Universe after the inflation era.

Therefore, by adopting these solutions, the SO(10)-inspired model of leptogenesis justifies the measured amount of Baryon Asymmetry in our Universe and, at the same time, provides sharp predictions on the low energy neutrino parameters.

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