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Creating the Baryon Asymmetry from Lepto-Bubbles

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We propose a new mechanism to generate a lepton asymmetry based on the vacuum CP-violating phase transition (CPPT). This approach differs from classical thermal leptogenesis as a specific seesaw model, and its UV completion, need not be specified. The lepton asymmetry is generated via the dynamically realised coupling of the Weinberg operator during the phase transition. This mechanism provides strong connections with low-energy neutrino experiments.

Primary author: Ms TURNER, Jessica (IPPP, Durham University)

Presenter: Ms TURNER, Jessica (IPPP, Durham University)

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