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Rémi Faure (IPhT): Leptogenesis during a cosmological phase-transition

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Leptogenesis is an explanation for the asymmetry between matter and antimatter present in our Universe. One of its popular realisation involves new particles, right-handed neutrinos, that allow lepton-number violating processes and C and CP violation. In order to generate a final asymmetry, we also need them to be out-of-equilibrium. In our scenario, this departure from equilibrium is provided by a phase-transition that generates the mass of the right-handed neutrinos, which can extend the successful parameter space available.

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