

## Universe with a large lepton asymmetry

*Tuesday, 8 July 2025 14:30 (30 minutes)*

The recent determination of the primordial abundance of He4 suggests that our universe has a large lepton asymmetry. We consider the Q-ball scenario that produces the large lepton asymmetry without generating a large baryon asymmetry. We also discuss the enhancement of gravitational waves and resonant production of sterile neutrinos in the scenario.

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