

## Phenomenology 2025 Symposium



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# Cosmological constraints on majoron dark matter in vanilla leptogenesis

*Tuesday 20 May 2025 17:00 (15 minutes)*

In this talk, we look at some cosmological constraints on majoron dark matter in the singlet Majoron model. We consider two scenarios: pre-inflationary and post inflationary spontaneous lepton number symmetry breaking, while simultaneously demanding thermal leptogenesis to happen, and neutrino masses being generated by the type I seesaw mechanism. We derive the constraints and future prospects to probe majoron dark matter over a broad mass range.

## Mini Symposia (Invited Talks Only)

## Plenary (Invited talks only)

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