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## A model for 'neutrino' self-interaction in cosmology

Wednesday 14 May 2025 09:23 (23 minutes)

In this talk, I will discuss a novel way of modeling neutrino self-interactions for cosmological observables. The mechanism relies on the fact that neutrinos and dark radiation, having the same abundance and free-streaming properties, are indistinguishable in low-energy cosmological probes. The minimal proof-of-principle model naturally accommodates relaxed neutrino mass constraint and mimics strong neutrino self-interactions. The model is safe from laboratory and BBN bounds.

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