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Collective neutrino oscillations: Status and prospects

Monday, 21 September 2020 13:30 (10 minutes)

Collective neutrino oscillations are predicted to occur in supernovae, neutron-star mergers, and potentially the early universe, with ramifications for the evolution and observables of these environments. This talk will survey our current understanding of the phenomenology, which has recently seen transformative developments. It will also overview the open questions that are poised to be answered in the coming years, and will emphasize the significance of these questions for particle physics and multi-messenger astronomy.

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