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Dark matter and neutrinos: from the early universe to near-field cosmology

Tuesday 25 March 2025 08:00 (15 minutes)

Cosmological observables, from the Lyman-alpha forest to Milky Way substructure, offer unique avenues for testing new physics. I will review the status of the recent early-universe and late-universe searches for the identity of dark matter and for new physics in the neutrino sector, summarizing the best current limits on scattering between dark matter and baryons and neutrino self-scattering. I will highlight the interplay between complementary probes and discuss the prospects for unveiling the physics of dark matter in the coming decade.

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