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Ultralight axions in string cosmology

Friday 7 July 2023 11:30 (30 minutes)

I will discuss the role that ultralight axions can play in string cosmology. These particles emerge very naturally in string compactifications where the effective field theory is under control and can behave as dark radiation, early dark energy, dark matter or quintessence-like dark energy. Moreover, they can produce detectable CMB birefringence signals. At the end of the talk I will also describe the activities of the newly born COST action COSMIC WISPer in the Dark Universe: Theory, astrophysics and experiments.

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