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Inflaxion dark matter

Tuesday 21 September 2021 09:45 (25 minutes)

A kinetic mixing between the axion and the inflaton allows for a production of axion dark matter even if the inflationary Hubble scale is smaller than the zero-temperature axion mass. I will discuss the axion dynamics in this "inflaxion" framework, and present a cosmological scenario where the axion can drift away from its vacuum during the reheating epoch, giving rise to the observed dark matter abundance.

Primary authors: UBALDI, Lorenzo (SISSA); KOBAYASHI, Takeshi

Presenter: UBALDI, Lorenzo (SISSA)

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