
What can we learn about dark matter from a future precision astrometry mission?

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Abstract

Dark matter makes up most of the mass of the Universe, yet it remains mysterious. Recent stellar kinematic data from nearby dwarf galaxies and weak lensing data from massive merging galaxy clusters, suggest that dark matter is a substance – most likely a new weakly interacting fundamental particle. But direct evidence for the existence of this particle remains elusive. In this talk, I discuss how a future precision astrometry mission can probe the nature of this particle and its fundamental interactions.

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