



Contribution ID: 42

Type: **not specified**

Cosmic Probes of Dark Matter Physics

Thursday, 23 February 2023 14:00 (5 minutes)

Cosmological and astrophysical observations currently provide the only robust, positive empirical evidence for the existence of dark matter. Furthermore, cosmic probes of dark matter, which seek to determine the fundamental properties of dark matter through observations of the cosmos, have emerged as a promising means to reveal the nature of dark matter. Cosmic survey projects provide a unique avenue to understand the properties of dark matter as part of a comprehensive experimental dark matter program that spans the frontiers of high energy physics. The study of dark matter with cosmic observations should be considered a core component of the scientific program of cosmic survey projects in the decade to come.

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Session Classification: Open Session for Remarks and Discussions