

Cosmic surveys as a probe of dark matter

Wednesday, 27 October 2021 22:05 (30 minutes)

Astrophysical and cosmological observations currently provide the only robust, empirical measurements of dark matter. Astronomical observations with large-scale surveys can provide necessary guidance for the experimental dark matter program. In this talk, I will summarize astrophysical observations that can constrain the fundamental physics of dark matter in the era of modern surveys. I will highlight the progress that has been made so far with past and ongoing astronomical observations, and discuss how the next generation cosmic survey programs will complement other experiments to strengthen our understanding of the fundamental characteristics of dark matter.

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