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TALK: Analytic Results on Dark Matter Velocity Distributions

Friday, June 21, 2024 9:00 AM (45 minutes)

Author: Jason Kumar

We review recent work on determining dark matter velocity distributions from analytic methods of classical mechanics, and the potential impact of these results on dark matter indirect detection strategies. In particular, we discuss velocity-dependent dark matter annihilation in subhalos and in the Galactic Center. We compare the results of these analytic methods to those obtained in large N numerical simulations, and discuss future work.

Presenter: KUMAR, Jason (University of Hawaii)