

Session Program

Sep 2 - 4, 2026



Probe Combination for Dark Matter Physics in the Era of Large Surveys

Stellar streams as probe of DM

KICP, University of Chicago, 401
University of Chicago Kavli Institute for Cosmological Physics 5640 S Ellis Ave, Chicago, IL 60637

Wed, September 2

10:40 AM

Stellar streams as probe of DM

Session |**Location:** KICP, University of Chicago, 401, University of Chicago Kavli Institute for Cosmological Physics 5640 S Ellis Ave, Chicago, IL 60637

10:40 – 11:03 AM

Review: Stellar streams as probes of dark matter

Speaker

Sarah Pearson

11:03 – 11:15 AM

Probing dark matter with stellar-stream density fluctuations in the LSST era

Speaker

Matthieu Pélissier

11:15 – 11:27 AM

Constraining the Dark Matter Perturber of the AAU Stellar Stream Using Simulation-Based Inference

Speaker

Ella Marin

11:27 – 11:39 AM

Inference Pipeline for Quantitative Constraints on Dark Matter from Stellar Stream Dynamics

Speaker

Jacob Nibauer

11:39 – 11:51 AM

Imprints of progenitor dynamics on stellar stream velocities

Speaker

Anya Phillips

11:51 AM – 12:03 PM

No Stream Left Unscathed: The Host Galaxy Baseline for Dark Matter Substructure

Speaker

Arpit Arora

12:03 – 12:15 PM

Discussion

12:15 PM