

Contribution ID: 71 Type: Flashtalk with Poster

## Extracting Dark Matter Halo Parameters with Overheated Exoplanets

Tuesday, 30 April 2024 14:31 (3 minutes)

The Galactic centre serves as a laboratory for fundamental physics, particularly in the context of indirect dark matter searches. This study explores the potential of the James Webb Space Telescope to shed light on self-annihilating, sub-GeV dark matter candidates by examining their influence on exoplanet overheating and providing sensitivity estimates via probabilistic programming languages.

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Session Classification: 1.3 Simulation-based inference

Track Classification: Session A