

A Multi-component Dark Matter Interpretation of the Galactic Center GeV Excess

Monday 1 December 2025 11:00 (20 minutes)

The Galactic Center GeV Excess is a persistent anomaly in gamma-ray data that could be explained by dark matter annihilations. In this talk, we explore, in a model-independent way, the possibility that this excess is a signature of a dark sector with multiple DM particles. Specifically, we present the final states and annihilation rates that best fit the current data for scenarios with 2 and 3 dark matter particles.

Author: YAGUNA, Carlos E.

Presenter: YAGUNA, Carlos E.

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