

# Hunting for Dark Matter and New Physics with (a) GECCO

*Wednesday 21 July 2021 12:12 (12 minutes)*

I will outline the science opportunities in the areas of searches for dark matter and new physics offered by a proposed future MeV gamma-ray telescope, the Galactic Explorer with a Coded Aperture Mask Compton Telescope (GECCO). I will point out that such an instrument would play a critical role in opening up a discovery window for particle dark matter with mass in the MeV or sub-MeV range, in disentangling the origin of the mysterious 511 keV line emission in the Galactic Center region, and in potentially discovering Hawking evaporation from light primordial black holes.

## Keywords

Dark matter; gamma rays

## Collaboration

### other Collaboration

GECCO

## Subcategory

Future projects

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