

Analysis of dark matter and astrophysical interpretations for excess extended gamma ray emission in Galactic center

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We place constraints on the dark matter annihilation cross section by analyzing Fermi Gamma Ray Space Telescope data from the galactic center. We arrive at both a conservative limit, including only known sources of gamma ray emission, and a more stringent model dependent limit, which includes a possible unresolved millisecond pulsar (MSP) population. We also study uncertainties introduced by the diffuse emission in the Galaxy.

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