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Determination of the Dark Matter profile from the EGRET excess of diffuse Galactic gamma rays

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The excess above 1 GeV in the energy spectrum of the diffuse galactic gamma radiation, measured with the EGRET experiment, can be interpreted as the annihilation of dark matter (DM) particles.

The DM is distributed in a halo around the Milky Way.

From the directionality of the gamma ray excess it is possible to determine the halo profile.

A comparison is made between the theoretical preferred NFW profile with a DM cusp in the centre and a cored isothermal profile without cusp.

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