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The GeV excess in the inner Galaxy: Discussion of background systematics

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Recently, a spatially extended excess of gamma rays compatible with a DM signal from the inner region of the Milky Way has been claimed by different and independent groups, using Fermi LAT data. Yet, final statements about the morphology and spectral properties of such an extended diffuse emission are under debate, given the high complexity of this sky region. In this talk I will present an analysis of Fermi-LAT gamma rays from the inner 50x50 region around the Galactic Center. The goal is to put under scrutiny the systematic uncertainties affecting the determination of a gamma-ray excess. I will present results for the morphology and the spectral energy distribution of such an extended emission and discuss what can be said about its interpretation in terms of dark matter.

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