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Testing the interpretation of the Fermi Galactic center excess in terms of unresolved point sources

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We present a new, powerful and background-independent technique to constrain the luminosity function of point source populations that might contribute to the observed GeV excess emission around the Galactic center. Using this technique, we search for indications of such a population in the latest Fermi LAT data and discuss, for the case of milli-second pulsars, the implications for multi-wavelength searches in the next future. Finally, we show that our technique is particularly promising for a study of the Galactic center excess with upcoming high-resolution gamma-ray space telescopes.

Collaboration

– not specified –

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Author: WENIGER, Christoph (University of Amsterdam)

Presenter: WENIGER, Christoph (University of Amsterdam)

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