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Unexpected gamma-ray signal in the vicinity of 1ES 0229+200

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We report on an unidentified gamma-ray signal found in the region around the BL Lac object 1ES 0229+200. It was recognized serendipitously in our analysis of 6.2 years of Fermi-LAT data at a distance less than 3° away from the blazar.

The observed excess of counts manifests itself as an unexpected local maximum in the test statistic map. Although several Fermi-LAT sources have been identified in this area we were not able to link them to the position of this residual signal.

A clear association with sources visible in other wavebands was not successful either.

We briefly discuss characteristics of this unresolved phenomenon.

Our results suggest a steep energy spectrum and a point-like nature of this candidate gamma-ray emitter.

Collaboration

– not specified –

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