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On moving cosmic unidentified gamma-ray sources

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The EGRET and Fermi LAT experiments have revealed a lot of unidentified gamma-ray sources. Moreover, a significant part of EGRET sources have not been confirmed by the Fermi LAT data. The possibility for the closest to Solar system unidentified gamma-ray sources to be moving in the celestial sphere during the time period between the EGRET and Fermi LAT experiments is considered. The nature of such gamma-sources might be associated with compact objects of new physics, such as clumps of dark matter or clusters of primordial black holes. We construct a distribution function of moving sources versus galactic coordinates and perform a statistical analysis to estimate whether the displacement effect is significant for the unidentified sources which have been found in the EGRET and Fermi LAT experiments.

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