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Constraints in the TeV halo population of M31

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TeV halos are a new class of extended gamma-ray objects recently discovered around middle-aged pulsars. Although it is still unclear if TeV halos are characteristics of all pulsars, their population in the Milky Way galaxy has been studied. In this work, we study the TeV halo population in the Andromeda galaxy (M31), the closest largest spiral galaxy to the Milky Way. Concretely, we assume M31 is a Milky Way-like galaxy and compute the contribution of TeV halos to the gamma-ray emission of M31. We acknowledge the support from PAPIIT IG101320.

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