

Search for gamma-ray line emission from Dark Matter annihilation in the Galactic Centre with the MAGIC telescopes

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We present the search for dark matter (DM) spectral lines in the Galactic centre (GC) region with the MAGIC telescopes. The MAGIC telescopes, located on the Canary island of La Palma (Spain), are sensitive to photons in the energy range from 50 GeV to 50 TeV with low zenith angle observations. MAGIC has performed indirect DM searches with various astrophysical targets. Since the MAGIC telescopes are located in the northern hemisphere, the GC is visible only at high zenith angles. Observations at high zenith angles significantly increase the telescopes' effective collection area, which boosts sensitivity for gamma rays in the TeV regime. We report the results obtained with more than 200 hours of high zenith angle observations of the GC region with MAGIC.

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