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## Deep survey of the Segue 1 dwarf spheroidal galaxy with the MAGIC Telescopes

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Discovering the nature of dark matter is one of the most exciting tasks of modern science. Among the targets suitable for dark matter searches, dwarf spheroidal galaxies are considered to be excellent candidates and, among them, Segue 1 stands out with mass-to-light ratio estimated to order of 1000. We present the results of the first stereoscopic observations of Segue 1 with MAGIC Telescopes, carried out during 2011 and 2012. With 110 hours of good quality data, this is the deepest observational campaign on any dwarf galaxy carried so far by any Imaging Air Cherenkov Telescope. The analysis of the data is performed using a dedicated likelihood approach, optimized for signals with characteristic spectral features. We search for dark matter particles with mass in the 100 GeV - 10 TeV range, considering theoretical scenarios with different final state Standard Model particles, annihilation with internal bremsstrahlung and monochromatic line signals.

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