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Searches for DM signals from the Galactic Center region with HESS

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The H.E.S.S. experiment, an array of four Imaging Atmospheric Cherenkov Telescopes, observes the Galactic Center (GC) region in the very high-energy (VHE, $E > 100$ GeV) domain since 2004. The GC is believed to be the region with the highest Dark Matter (DM) density in our Galaxy, thus making it one of the primary targets for VHE gamma-ray observations, looking for signals from annihilation or decay of DM particles. The interpretation of the collected H.E.S.S. data with regard to possible DM signals is however complicated by the presence of several astrophysical sources of VHE gamma-ray radiation in this region. In this talk, the current status of the search for DM signals from the GC region is reviewed.

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