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Search for a Dark Matter annihilation signal from the Sagittarius dwarf galaxy with H.E.S.S.

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Abstract content

Dwarf Sphreroidal galaxies are amongst the best target to search for a Dark Matter annihilation signal. The annihilation of WIMPs in the center of Sgr dwarf would produce high energy gamma-rays in the final state. Observations carried out with the H.E.S.S. array of Imaging Atmospheric Cherenkov telescopes are presented. A careful modelling of the Dark Matter halo profile of Sgr dwarf was performed using latest measurements on its structural parameters. Constraints on the velocity-weighted cross section of Dark Matter particles are derived in the framework of Supersymmetric and Kaluza-Klein models.

If this papers is presented for a collaboration, please specify the collaboration

H.E.S.S.

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 4 (HE part 1), pages 713-716

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