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A Very High Energy gamma-ray survey of X-ray binaries using H.E.S.S.

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Abstract content

Since the discovery of TeV emission from the LS 5039/RX J1826.2-1450 binary system, microquasars are an established class of Very High Energy gamma-ray sources. Nonetheless, the current catalog of gamma-ray binaries remains somewhat limited, with only three examples known. We present the results of a systematic search for TeV emission from known X-ray binaries with similar properties to LS 5039/RX J1826.2-1450 using the H.E.S.S. Atmospheric Cherenkov Telescope Array. Resultant constraints of the physical system characteristics required for bright TeV emission in gamma-ray binary systems are also derived.

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

The H.E.S.S. Collaboration

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. 2 (OG part 1), pages 641-644

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