



30th International Cosmic Ray C

Mérida, Yucatán, Méx.

Contribution ID : 469

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

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.

collaboration :

The H.E.S.S. Collaboration

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Session classification : Posters 2 + Coffee

Track classification : OG.2.2

Type : Poster