

Indirect search of heavy WIMPs

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We have studied the spectral features of the HESS J1745-290 gamma ray source as possible dark matter signal. The early model independent study of this source has also been extended to the particular case of branon dark matter, where W^+W^- and Z^+Z^- appear as preferred DM annihilation channel into Standard Model particles. Next works will be addressed to test such dark matter origin, both in a model dependent and independent way. The heavy dark matter that may originate this signal could be detected by other indirect detection experiments, not only with photons, but also with neutrinos and antimatter. In this sense, new analyses for Antares, IceCube or AMS are necessary.

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