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Multivariate search for a diffuse astrophysical muon neutrino flux with ANTARES

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The ANTARES Cherenkov detector is optimized for the detection of neutrino-induced muons in the TeV range with the aim to measure astrophysical neutrinos. A search for a diffuse astrophysical neutrino flux was performed on four years of ANTARES data through parameter space scanning and an upper limit is set on the expected muon neutrino flux.

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