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Limits on point-like sources with different spectral indexes around the Galactic center using the ANTARES neutrino telescope

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Motivated by an accumulation of events close to the Galactic center in the High Energy Starting Events (HESE) reported by the IceCube Collaboration, a search for point-like sources up to an extension of a few degrees in a wide region around the Galactic center has been performed using the ANTARES neutrino telescope. Different spectral indexes for the energy spectra of the sources, in addition to the default value of $\gamma = 2.0$, have been tested. Upper limits on the flux normalization as a function γ have been set.

Collaboration

ANTARES

Registration number following "ICRC2015-I/"

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Author: BARRIOS MARTÍ, Javier (IFIC - CSIC)**Co-author:** SCHULTE, Stephan (Nikhef)**Presenter:** BARRIOS MARTÍ, Javier (IFIC - CSIC)**Session Classification:** Poster 3 DM and NU**Track Classification:** NU-EX