

Neutrinos from galactic sources

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The HAWC telescopes has recently revealed new spectra for gamma-ray sources in the Galactic plane. In this talk I will review the possibility of detecting these sources at KM3 detectors. I will consider, with particular emphasis, the 2HWC J1825-134 source. Amongst the HAWC sources, it is indeed the most luminous in the multi-TeV domain and therefore is one of the first that should be searched for with a neutrino telescope in the northern hemisphere. I will show the prospects to detect this source at the KM3NeT detector and comment on the possibilities for others neutrino telescopes.

I will consider, moreover, the gamma-ray sources eHWC J1907+063, eHWC J2019+368 and 2HWC J1857+027. For these sources, I will show the prediction for neutrinos at the IceCube detector, presenting the calculation of the statistical significance, considering 10 and 20 years of running time, and I will comment on the current results reported by the collaboration.

Keywords

High-energy neutrinos; Neutrino astronomy; High-energy cosmic-ray physics and astrophysics

Collaboration

other Collaboration

Subcategory

Theoretical Results

Primary author: NIRO, Viviana (Laboratoire APC)

Presenter: NIRO, Viviana (Laboratoire APC)

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