

Search for ultra-high energy neutrinos at the Pierre Auger Observatory

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The Pierre Auger Observatory, originally designed for the detection of ultra-high-energy cosmic rays, has also the capability to detect neutrinos with energies above 100 PeV. The identification, through the special characteristics of highly inclined showers, is efficiently performed for neutrinos of all flavours. This presentation reviews the status of the neutrino search at the Observatory. Upper limits on the neutrino flux from diffuse and point-like sources have been established, placing constraints on models of neutrino production at EeV energies and on the properties of the sources of ultra-high-energy cosmic rays. High sensitivity in search for transient sources has also been achieved.

Poster prize

Given name

Surname

First affiliation

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Gender

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