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

The Pierre Auger Observatory has the capability of detecting ultra-high energy neutrinos of all flavours. They interact through charged and neutral currents in the atmosphere (downward-going) and through the “Earth-skimming” mechanism (upward-going). The main challenge in detecting ultra-high energy neutrinos with the Pierre Auger Observatory is to identify a neutrino-induced shower in the overwhelming background of showers initiated by ultra-high energy cosmic rays, possibly protons, heavy nuclei or even photons. The neutrino search analyses and the most up-to-date upper limits on the neutrino fluxes are reported.

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