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Search for Earth skimming ultra-high-energy neutrinos from space

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The detection capabilities of Cherenkov telescopes for observing signals generated by upward-moving extensive air showers (EASs), caused by earth-skimming neutrinos and high-energy cosmic rays, will be examined. We will delve into two detection frameworks: sub-orbital instruments (such as balloon-borne) and low Earth orbit satellites, with a particular emphasis on the Terzina instrument aboard the NUSES satellite. Additionally, we will provide an overview of the broader perspectives of this detection technique, including its potential with future large-area instruments.

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