

## Vulcano Workshop 2018 - Frontier Objects in Astrophysics and Particle Physics



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### Neutrinos in the Multimessenger Era

With the recent discovery of high-energy neutrinos of extraterrestrial origin by the IceCube neutrino observatory, neutrino astronomy is entering a new era. The highest-energy neutrinos observed to date exceed 1 PeV in energy, a regime of particular interest because the neutrinos should point back to the still elusive accelerators of the highest energy Galactic and extragalactic cosmic rays. This talk will cover currently operating and future high-energy neutrino detectors in water and ice, the latest results from searches for a flux of extraterrestrial neutrinos and current efforts in the search for steady and transient neutrino point sources. Special emphasis will be given to multimessenger aspects connecting neutrino, gamma ray, and cosmic-ray observations.

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