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Recent Results in Neutrino Astronomy

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With the recent discovery of high-energy neutrinos of extra-terrestrial 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 review talk will cover currently operating neutrino telescopes in water and ice, the latest results from searches for a flux of extra-terrestrial neutrinos and current efforts in the search for steady and transient neutrino point sources. In addition the talk will discuss future detectors such as KM3NeT in the Mediterranean Sea, plans for IceCube high-energy detector upgrades and the status of radio experiments with sensitivity to cosmogenic neutrinos.

Collaboration

– not specified –

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