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6. High energy muons and neutrinos (MN)

tatus of High-Energy Neutrino Astronomy

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With the recent detection of high energy neutrinos of extra-terrestrial origin with IceCube, neutrino-astronomy is entering a new era. I will review the latest evidence for a flux of extra-terrestrial neutrinos, along with potential astrophysical sources that can explain the observations. Furthermore, I will provide an overview of other science being addressed by current neutrino telescopes, ranging from neutrino masses to dark matter detection. Finally, I will give an outlook on a new generation of neutrino telescopes, that are currently being proposed.