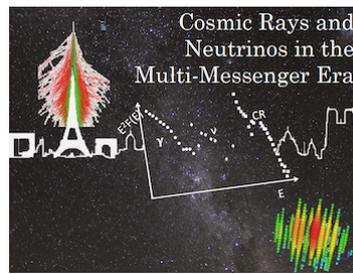


Cosmic Rays and Neutrinos in the Multi-Messenger Era



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The highest-energy gamma rays and multi-messenger astrophysics

The High Altitude Water Cherenkov (HAWC) Observatory, located in Puebla, Mexico, has observed many sources emitting gamma rays above 100 TeV. These objects appear to come from a wide variety of source classes: pulsar wind nebulae such as the Crab Nebula; unidentified objects such as MGRO J1908+06; and at least one superbubble containing freshly accelerated cosmic rays originating from a star-forming region (the TeV counterpart to the Cygnus Cocoon). In this poster we will show multi-messenger and multi-wavelength observations for selected high-energy gamma-ray sources. The detection of neutrinos from any of them would be a smoking gun that they are PeVatrons and contribute to the knee of the cosmic-ray spectrum.

Related session

Multi-messenger

Auteur principal: MALONE, Kelly (Los Alamos National Laboratory)