Type: Talk

Multimessenger NuEM Alerts with AMON

Monday 12 July 2021 19:00 (12 minutes)

The Astrophysical Multimessenger Observatory Network (AMON), has developed a real-time multi-messenger alert program. The system performs coincidence analyses of datasets from gamma-ray and neutrino detectors, making the Neutrino-Electromagnetic (NuEM) alert channel. For these analyses, AMON takes advantage of sub-threshold events, i.e., events that by themselves are not significant in the individual detectors. The main purpose of this channel is to search for gamma-ray counterparts of neutrino events. We will describe the different analyses that make-up this channel and present a selection of recent results.

Keywords

Multi-messenger; gamma rays; neutrinos

Collaboration

HAWC

other Collaboration

IceCube, ANTARES, AMON

Subcategory

Experimental Results

Primary authors: Dr AYALA, Hugo (Pennsylvania State University); FOR THE AMON TEAM; FOR THE HAWC COLLABORATION; FOR THE ICECUBE COLLABORATION; FOR THE ANTARES COLLABORATION

Presenter: Dr AYALA, Hugo (Pennsylvania State University)

Session Classification: Discussion

Track Classification: Scientific Field: MM | Multi-Messenger