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## **Multiwavelength Follow-up Observations Of Astrophysical Neutrino Events**

*Thursday 1 June 2023 17:55 (10 minutes)*

On September 22, 2017, the IceCube Neutrino Observatory detected a high-energy neutrino of potential astrophysical origin which was found by follow-up electromagnetic observations to spatially and temporally coincide with the flaring state of a known blazar, TXS 0506+056. Since then, several additional neutrino events have been found in spatial correlation with known highenergy sources. Multiwavelength follow-up observations of astrophysical neutrino events such as these, and the continued monitoring of previously-identified sources such as TXS 0506+056 are imperative in finding sources of the diffuse neutrino flux detected by IceCube as well as the mechanisms that produce high-energy cosmic rays. In this talk, I will present results from multiwavelength follow-up observations of astrophysical neutrino candidate events with potential gamma-ray counterparts, including observations at X-ray and gamma-ray energies performed by the Neil Gehrels Swift Observatory, NuSTAR, and the Fermi Gamma-ray Space Telescope.

**Presenter:** SHARPE, RileyAnne (The University of Alabama)

**Session Classification:** Student talks