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Optical and Radio Follow-up of Ultra-High-Energy Neutrino Source Candidates

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In this report, we present SAO RAS radio/optical observations of high-energy neutrino candidates - bright blazars. Extensive research has shown that the arrival directions of ultra-high-energy (UHE) neutrinos statistically coincide with bright blazar positions, while the timing of neutrino events coincides with powerful synchrotron flares in these objects. AGN have emerged as compelling candidates for astrophysical neutrino sources and efficient proton accelerators. We further present the multi-wavelength features (radio to gamma-ray) of several UHE neutrino candidates across long timescales and during neutrino events.

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