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AGILE Gamma-ray Sources Coincident with Cosmic Neutrino Events

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Using data obtained by the gamma-ray imager on board of the AGILE satellite, we systematically searched for transient gamma-ray sources above 100 MeV in temporal and spatial coincidence with high-energy neutrino IceCube events. We found some significant gamma-ray transients possibly associated with HESE neutrinos recently detected by the IceCube experiment. In this talk, we review the AGILE results and we will show that the probability of this association to be by chance is very low. One of the sources detected by AGILE is related to the blazar AGN TXS 0506+056. For the other sources, there are no obvious known counterparts.

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