## The Neutrino Contribution of Gamma-Ray Flares from Fermi Bright Blazars

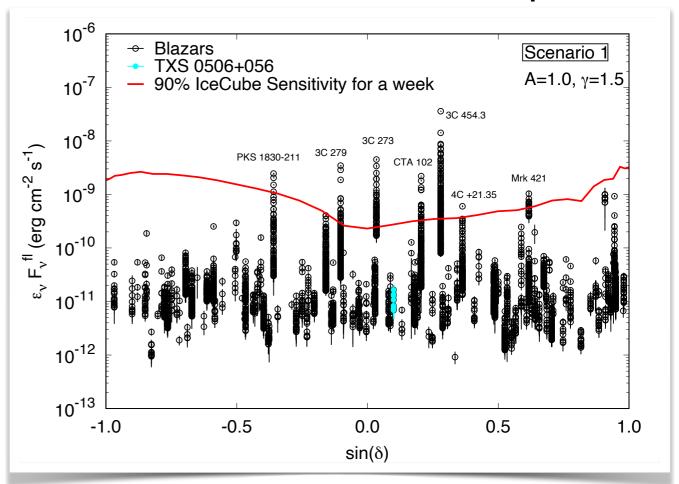


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High-energy neutrinos are expected to be produced during gamma-ray flares of blazars through the interaction of high-energy cosmic rays in the jet with photons. In this work, we present a statistical study of 145 bright gamma-ray blazars aiming to constrain their contribution to the blazar neutrino output.

Comparison of the estimated neutrino energy flux with the declination-dependent IceCube sensitivity enables us to constrain the standard neutrino emission models of gamma-ray flares.

We also provide the upper-limit contribution of flares of gamma-ray bright blazars to the isotropic diffuse neutrino flux.





The U.L.s of this sample, i.e. the bright gamma-ray/neutrino blazars: ~20 % of the isotropic diffuse neutrino flux