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High-Energy Neutrinos from Gamma-Ray Bursts and Blazar Flares

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Gamma-ray bursts (GRB) and blazars are luminous point sources in gamma-rays and candidate sources for IceCube neutrinos. The potential spatial and temporal correlations between the IceCube neutrinos and the gamma-ray flares from those sources have called attention and extensive studies. Due to the low statistics of neutrino events, it is important to interpret the results based on accurate modeling of the sources. Here I will summarize the recent developments on theoretical models of GRBs and blazars and the correlation between their neutrino and gamma-ray emissions.

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