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High-Energy Neutrinos from Cosmic Explosions

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Neutrinos play important roles in revealing mechanisms of energetic astrophysical explosions such as gamma-ray bursts (GRBs) and supernovae (SNe). The large neutrino detector, IceCube has opened a new window of the multi-messenger astronomy. I review theoretical models of high-energy neutrino emissions from gamma-ray bursts, with implications of recent observations and future prospects. I also discuss the importance of other classes of transients such as low-luminosity GRBs and luminous SNe.

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