

Multi-messenger emission from AGN

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After the 2017 association between the blazar TXS 0506+056 and high-energy IceCube neutrinos, there has been a surge of research exploring the potential link between blazars and neutrinos. In 2022, somewhat surprising evidence emerged for neutrino emission from the nearby prototype Seyfert II galaxy, NGC 1068. This raises the question: which, if any, AGN are neutrino emitters, and why? What role do jetted and non-jetted AGN play? I will attempt to answer these questions based on the current state of the field, focusing primarily on the observational side but trying to give also a high-level theoretical perspective.

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