

Phenomenology 2023 Symposium



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NGC 1068 and Neutrino Self-Interactions

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Recently IceCube announced the observation of high-energy neutrinos from the active galaxy NGC 1068. Due to the potential for scattering between signal neutrinos and cosmic background neutrinos, this observation is sensitive to neutrino self-interactions mediated by a massive scalar. In this talk I will present bounds based on the data, highlight the role that detector physics plays in this result, and discuss future possibilities.

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