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An AGN-starburst composite multi-messenger model of NGC 1068

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Recent multi-wavelength observations indicate that some starburst galaxies show a dominant nonthermal contribution from its central region. These active galactic nuclei (AGN)-starburst composites are of special interest, as both phenomena on their own are potential sources of high-energetic cosmic rays. In this presentation we will focus on NGC 1068, which is known since several years from its atypical radio-gamma-ray correlation. Recently this source has also shown strong indications of high energy neutrino emission. We present a first semi-analytical, two-component multi-messenger model that gives some constraints on the AGN-starburst composite characteristics of NGC 1068.

Keywords

NGC 1068; starburst; AGN

Collaboration

other Collaboration

Subcategory

Theoretical Results

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