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Galactic Stellar Black Hole Binaries: spin effects on jet emissions of high energy neutrinos and gamma rays

In this work we discuss the effect of the Black hole spin on the jet emissions of high energy neutrinos and gamma rays emanating from Galactic Stellar Black Hole Binaries (GSBHB). The assumed Stellar black holes masses range up to 30M⊙. We are interested in Galactic black holes, ones that are located inside our Galaxy, so that they can be observed by operating or designed terrestrial detectors. Inside the jets of the black hole, multiple reactions occur, so the jets emit particles, radiation and neutrinos. We are interested in the emission of gamma rays and neutrinos since they can reach the Earth. After discussing the mechanisms involved in the production of gamma rays and neutrinos we calculate gamma rays and neutrino intensities that may be observed at the Earth.

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