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Probing PBH DM with high-energy astrophysics

Wednesday, 21 June 2023 09:40 (20 minutes)

I will present how we can use high-energy astrophysics at multiple wavelengths to constrain PBH DM. First, I will show how old data from INTEGRAL/SPI in the MeV band can be exploited to set the strongest bounds on evaporating PBH. I will also review how we can use GeV to TeV observation to probe PBHs, even if not providing very competitive results. Finally, I will move towards stellar-mass PBHs and discuss the signatures the accretion of gas can leave in radio and X-ray observations.

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