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The Dark-Matter Density Profiles and Binary Black Holes

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It is known that galactic centers could host single or
binary black holes, and observations show that black-hole
masses are correlated with the properties of galaxies.
Moreover, in terms of center's density profiles,
early-type galaxies can be classified into power-law or core
galaxies. Therefore, in this project, we study the dynamics
near galactic centers with given galactic dark-matter density profiles and
binary black holes. Our results could constrain the properties
of binary black holes in their host galaxies.

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