

Black hole superradiance

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Ultralight scalars and vectors are popular dark matter candidates. They could extract energy and angular momentum from a Kerr black hole (BH) if the wave length is comparable to the size of BH horizon, forming a sizeable condensate around the host BH. In this talk, I will introduce the evolution of the BH-condensate system and its gravitational wave emission. The effect of accretion will also be discussed.

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