

Axion-like particles and BH Superradiance

Thursday 9 May 2024 14:20 (20 minutes)

Axions, or in general axion-like particles, are popular dark matter candidates. They could form Bose-Einstein condensate in our universe. In this talk, I will discuss two different types of condensates: axion stars and black-hole superradiant axion clouds. These condensates could emit radio-frequency photons as well as gravitational waves. The unique signatures of these signals will also be discussed.

Collaboration (if any)

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