

A high frequency GW detector to look for CW GWs from BH superradiance

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I will present a new concept of a resonant, high frequency GW detector which operates on the basis of optical levitation. This detector will be sensitive to galactic BH superradiance signals, especially those from axions at the GUT scale. I will describe the working principle, the experimental progress, and the projected sensitivity of this detector to continuous GWs.

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