

Probing ultralight axion dark matter with gravitational-wave detectors

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The ultralight axion with mass around 10^{-22} eV is a candidate of dark matter. A distinguishable feature of the ultralight axion is oscillating pressure in time, which produces an oscillation of gravitational potentials. The oscillating potentials can, in principle, be detected by gravitational-wave detectors. I will discuss the detectability of the ultralight axion dark matter through the gravitational interaction.

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