

Gravitational wave emission and oscillon formation in string axiverse

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I will discuss cosmological implications of string axion dark matter whose potential has a plateau region far from the minimum. Depending on parameters and initial values, axion self interactions can cause strong parametric resonances and, as a result, a significant amount of gravitational waves can be emitted followed by oscillon formations —a quasi-stable soliton-like object.

Presenter: KITAJIMA, Naoya (Nagoya University)

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