Contribution ID: 31 Type: not specified

## Gravitational wave emission and oscillon formation in string axiverse

Wednesday, 14 February 2018 16:20 (20 minutes)

I will discuss cosmological implications of string axion dark matter whose potential has a pleateu 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)

**Session Classification:** Short Talks