



Contribution ID: 28

Type: **not specified**

Probing extremely small-scale primordial perturbations by gravitational waves

Thursday, October 8, 2020 10:00 AM (1 hour)

According to the theory of inflation, the primordial perturbations existed over a wide range of length scales from meter size at the smallest scale up to at least the Hubble horizon on the largest scale. Stochastic gravitational waves have been attracting a lot of interest recently as a new powerful probe of the primordial perturbations on very small scales. In this talk, I will give a brief overview in this field and present a recent search for such gravitational waves by using LIGO O2 data and its implications.

Presenter: Prof. TERUAKI, Suyama