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TITLE:

Dark Holograms and Gravitational Waves

ABSTRACT:

The first direct detection of gravitational waves by LIGO in 2015 represents the starting point of a new era in observational cosmology. With many new developing experiments, it is important to provide theoretical predictions for gravitational wave signals. Among the various sources of gravitational waves, cosmological first order transitions provide a typical stochastic background. In this talk I will describe how to compute the gravitational wave spectra in cosmological transitions in dark sectors which can be modeled by holographic theories. In parts of the parameter space of the models, the spectra turn out to be potentially detectable in the near future.