

## Some aspects of stochastic background of gravitational waves

*Wednesday, 27 May 2020 14:00 (50 minutes)*

Our universe is fulfilled by stochastic background of gravitational waves with a large range of frequencies, which may have various astrophysical/cosmological origins in the early universe. As our universe is transparent to gravitational wave, it is a fossil recording the information of its generation and how our universe evolves. In this talk I will briefly review the stochastic background of the gravitational waves, especially the secondary gravitational waves induced by scalar perturbations and their connection to the primordial black holes as dark matter. I will also introduce our recent work on the shapes of the spectrum: infrared scaling and the peak.

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