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Primordial gravitational waves and interferometers - Lecture 2

Friday, 18 June 2021 11:00 (2 hours)

Gravitational Waves (GWs) represent a unique tool to explore the physics and the microphysics of the universe. After the GW direct detections by the LIGO/Virgo collaboration, the next target of modern cosmology is the detection of Stochastic Gravitational Wave Backgrounds (SGWB), both of cosmological and astrophysical origin. In this lectures, I will present early universe scenarios that can be probed with future GW detectors; in particular I will show how the LISA and Einstein Telescope (ET) interferometers, in addition to the detection and characterization of GWs of astrophysical origin, will give compelling information about the cosmological background of GWs. I will discuss the main tools and observables to deal with GW physics at interferometers.

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