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Probing pre-BBN era with Primordial Gravitational Waves: Modified Gravity and Non-Standard Cosmology

Thursday 10 December 2020 14:50 (20 minutes)

We will talk about Primordial Gravitational Waves (PGW): particularly we discuss the PGW spectrum in non-standard cosmology and in modified gravity theories, in early Universe cosmology, specifically in scalar-tensor and extra dimensional gravity scenarios, investigating the detection prospects in current and future GW observatories which can be potentially observed by laser interferometers operating in the high-frequency range and at low frequencies with pulsar timing arrays respectively. We will see that data from the planned network of several GW detectors operating across various frequency ranges will be able to distinguish between various modified gravity and non-standard cosmological history scenarios.

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