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Sebastien Renaux-Petel (IAP): Probing primordial features with the Stochastic Gravitational Wave Background

jeudi 28 janvier 2021 15:40 (20 minutes)

Features of the primordial density fluctuations power spectrum are theoretically extremely motivated and detecting them would provide a unique insight into the physics of the early universe. In this talk, I will show how the stochastic gravitational wave background (SGWB) offers a new way to probe primordial features, on scales complementary to the ones probed by the CMB and LSS. These features give rise to specific oscillatory patterns in the frequency profile of the SGWB, which can be detected in future GW observatories like LISA. The talk will be based on arXiv:2012.02761