

Search for high frequency gravitational waves with electromagnetic cavities

jeudi 23 octobre 2025 11:00 (1 heure)

Recently, there has been a great interest in searching for gravitational waves with frequencies much higher than the realm of current ground based detectors, typically in the MHz-GHz range. For the most part, the signals expected in this frequency range would be signs of physics beyond the Standard Model. Among many experimental possibilities, one promising way of detection relies on the use of electromagnetic cavities. In this talk, I will review the various effects of GW on cavities and I will discuss the current progress on the modeling of the full response of the cavity to GW.

Orateur: GUÉ, Jordan (IFAE, Barcelona)