

Spanish and Portuguese Relativity Meeting



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Gravitational Waves at Pulsar Timing Arrays and the Early Universe

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The recently reported evidence for Gravitational Waves (GWs) in PTA datasets leaves the question of whether the signal is astrophysical or coming from the Early Universe, in the latter case originating from physics beyond the Standard Model. In this talk I provide an overview of PTA results and discuss their relevance for the fundamental physics. Features of cosmological GW backgrounds that can help in addressing the origin of the signal will be discussed, as well as well-motivated scenarios that can be probed at PTAs.

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