

Spanish and Portuguese Relativity Meeting



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Numerical study of the Hawking and dynamical Casimir effects

Thursday 25 July 2024 10:10 (20 minutes)

In this presentation we will explore, with the help of analytical and numerical tools, the dynamics of a quantum free field enclosed in a cavity with moving boundaries. The nontrivial dynamics of the mirrors yields to mode-mixing and particle production. We will then discuss how to simulate the Hawking effect and some intriguing phenomena associated with the dynamical Casimir effect.

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