

SEMINARIO
Departamentos de Física Teórica I y II
Universidad Complutense de Madrid

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TITULO: Confinement and Quantum Memories

LUGAR: FACULTAD DE CIENCIAS FÍSICAS UCM

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ABSTRACT:

In order to store quantum information we need to protect it from decoherence, either passively (with a suitable energy landscape) or actively (using error correcting methods). In the first case it is well known that the confinement of excitations is crucial for a successful protection. I will discuss how also in the active error correction setting confinement can play a role, resulting in an unsuspected connection between the two scenarios.