

Dissipative transitions in light matter systems

mardi 13 février 2024 11:00 (1h 30m)

In many quantum engineered systems, desired static hamiltonians are realised in the rotating frame i.e., the systems are inherently driven periodically in time. What happens, when such systems talk to a dissipative environment which is truly static ?

In this talk, focusing on cold atomic gases coupled to quantized light modes, I will show how the relative rotation between the system in a rotating frame and a dissipative bath can dramatically alter the phase diagram and lead to rich phenomenology.

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