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ABSTRACT

Collective dissipation in complex networks, optomechanical systems and autonomous refrigerators

Roberta Zambrini

Extended quantum systems composed of several units, even in architectures of increasing complexity, can display different forms of dissipation into the environment. System components can be perturbed by the environment independently or their dissipation can be correlated. In this talk, different effects of collective dissipation will be discussed in different contexts, ranging from complex networks, to optomechanical systems and autonomous refrigerators.