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The QD is treated as an open quantum system with two optically active levels, that is, one valence band state with energy  $\hbar\omega_v$  and one conduction band state with energy  $\hbar\omega_c$ , typical for InAs/GaAs-QDs with a base length smaller than 13 nm (Stier, 2001).

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In physics, an open quantum system is a quantum-mechanical system which interacts with an external quantum system, the environment or bath. In general, these interactions significantly change the dynamics of the system and

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result in quantum dissipation, where the information contained in the system is lost to its environment. Because no quantum system is completely isolated from its surroundings, it is important to develop a theoretical framework for treating these interactions in order to obtain

## **Open quantum system - Wikipedia**

open quantum system nowadays is arguably focused on the field of controlled quantum technologies, including quantum computation, quantum communication, quantum metrology, etc., where the most useful systems are finite (or special cases of infinite systems), the formal loss of generality is justified in this case.

## **OpenQuantumSystems. AnIntroduction Angel Rivas arXiv:1104 ...**

Open quantum systems is the study of quantum dynamics of the system of interest, taking into account the effects

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of the ambient environment. It is ubiquitous in the sense that any system could be envisaged to be surrounded by its environment which could naturally exert its influence on it.

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In open quantum systems the dynamics of the environment can influence the behavior of the quantum subsystem in significant ways. In particular, it can lead to decoherence and dissipation which can play central roles in the rates and mechanisms of physical processes.

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