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Open quantum systems: relaxation and decoherence

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In this talk it is our intention to present the basic ideas of what is known today as
and show its importance to new problems appearing in different areas of physics. We
shall approach the problem investigating realistic physical situations where the question of
dissipation is really relevant and then identify the concrete problems to be treated. Some examples
are; dissipative quantum tunneling, dissipative coherent tunneling and decoherence between wave
packets in the classically accessible region of

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dissipation