

**Quantum
Physics**

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**Dynamics
of a qubit
coupled
to a
dissipative
nonlinear
quantum
oscillator:
an
effective
bath**

approach

Carmen

Vierheilig, Dario

Bercioux, Milena

Grifoni

*(Submitted on 22
Oct 2010)*

We
consider
a qubit
coupled
to a
nonlinear
quantum
oscillator,
the latter