

A Quantum Dynamical Mode for the Control of Decoherence

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Abstract: We present a quantum measurement model where the meter is taken to be a squeezed reservoir. We realize decoherence in macroscopic limits using Bogoliubov transformation, and this kind of system-meter coupling has a dramatic influence on decoherence.

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Key words: coherent states, displace operators, squeezing operators, canonical transformation, decoherence

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