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Quantum Physics

Fidelity of states in infinite dimensional quantum systems

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In this paper we discuss the fidelity of states in infinite dimensional systems, give an elementary proof of the infinite dimensional version of Uhlmann's theorem, and then, apply it to generalize several properties of the fidelity from finite dimensional case to infinite dimensional case. Some of them are somewhat different from those for finite dimensional case.

Comments: 12 pages

Subjects: Quantum Physics (quant-ph); Functional Analysis (math.FA)

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