Computer Science > Systems and Control

Singular Perturbation Approximations for a Class of Linear Quantum Systems

Ian R. Petersen

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This paper considers the use of singular perturbation approximations for a class of linear quantum systems arising in the area of linear quantum optics. The paper presents results on the physical realizability properties of the approximate system arising from singular perturbation model reduction.

Subjects: **Systems and Control (cs.SY)**; Optimization and Control (math.OC); Quantum Physics (quant-ph)

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