Alternative Method for Quantum Feedback-Control

Julian Juhi-Lian Ting jlting@chez.com http://www.chez.com/jlting Nanomaterials Laboratory, National Institute for Materials Science, 3-13 Sakura, Tsukuba, Ibaraki 305-0003, Japan

abstract A new method for doing feedback control of single quantum systems was proposed. Instead of feeding back precisely the process output, a cloning machine served to obtain the feedback signal and the output. A simple example was given to demonstrate the method.