

Year: 2010

Vol.: 77

Fasc.: 3-4

Title: Weak compactness in the space of operator valued measures

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In this short paper we present a characterization of weakly compact sets in the space of finitely additive nuclear operator valued measures. The paper is concluded with a physical example involving feedback control of stochastic systems on Hilbert space perturbed by centered Poisson counting measures. Both existence of optimal policies and necessary conditions of optimality are presented.

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