

1054-46-167

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An E_0 -semigroup is a one-parameter semigroup of endomorphisms of $B(H)$. We consider families of E_0 -semigroups parametrized by a compact Hausdorff space X , with the appropriate continuity requirement. We provide a classification of such perturbed families in terms of an invariant given by vector bundles over the space X , in the case in which all E_0 -semigroups in the family are of type I_n for a given n . (Received September 13, 2009)