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A CHARACTERIZATION OF HILBERT C^*–MODULES OVER FINITE DIMENSIONAL C^*–ALGEBRAS

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Abstract. We show that the unit ball of a full Hilbert C^*-module is sequentially compact in a certain weak topology if and only if the underlying C^*-algebra is finite dimensional. This provides an answer to the question posed in J. Chmieliński et al [Perturbation of the Wigner equation in inner product C^*-modules, J. Math. Phys. 49 (2008), no. 3, 033519].

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