

Colloquium del Departamento de Análisis Matemático

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"Weakly compact sets in C[0,1] and reflexive Banach lattices"

Jueves 12 de mayo de 2016 a las 13:00 horas en el seminario 222

Abstract:

Motivated by the results in [M. Talagrand, Proc. Amer. Math. Soc. 96 (1986), no. 1, 95--102], we will see that for every weakly compact subset K of C[0,1] with finite Cantor-Bendixson rank, there is a reflexive Banach lattice E and an operator T:E \rightarrow C[0,1] such that K \subseteq T(B_E). On the other hand, we exhibit an example of a weakly compact set in C[0,1] homeomorphic to ω for which such T and E cannot exist.

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