

Nandakumar, N. R.; Van der Mee, Cornelis V. M.

Locally compact semi-algebras generated by a commuting operator family. (English)

Zbl 0805.47037

Int. J. Math. Math. Sci. 17, No. 4, 717-724 (1994).

Summary: Conditions are provided for the local compactness of the closed semi- algebra generated by a finite collection of commuting bounded linear operators with equibounded iterates in terms of their joint spectral properties.

MSC:

47L10 Algebras of operators on Banach spaces and other topological linear spaces

Keywords:

Radon-Nikoloskii operator; closed semi-algebra generated by a finite collection of commuting bounded linear operators with equibounded iterates; joint spectral properties; local compactness

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