Polynomially compact bilinear endorphisms of finite type of Banach algebras

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Abstract

Kamowitz's classical result on a compact endomorphism T of a commutative Ba- nach algebra A asserts that $\cap T*n(Xr)$ is finite where $T*$ is the adjoint of T and Xr),is the set of multiplicative linear functionals on A. This paper extends the underlying Kamowitz's result to absolutely r-summing operators for $1 \text{™} r \< \infty$ or more generally polynomially compact endomorphisms as well as bilinear operators of finite type generated by Polynomially compact operators of a commutative Banach algebra. Keywords: Polynomial compactness; Endomorphism; Algebra; absolute summability; bilinear operators.