Structure of the Inverse for the Integral Operator of Special Kind

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Algebra (with identity) generated by integral operators on the spaces of continuous periodic functions is considered. This algebra is proved to be an inverse-closed subalgebra in the algebra of all bounded linear operators.

Key words: Banach space, integral operator, Bochner–Phillips theorem, Fourier series of an operator, inverse-closedness of a subalgebra, Wiener’s pair of algebras.

References