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GROUP INVERSE OF FINITE POTENT ENDOMORPHISMS ON ARBITRARY VECTOR SPACES

FERNANDO PABLOS ROMO

Abstract. The aim of this work is to introduce the group inverse of a finite potent endomorphism on an infinite-dimensional vector space that generalizes the notion of group inverse of a square finite matrix. The existence and uniqueness of this inverse is proved, several properties are offered and the relations with Drazin inverse, CMP inverse and DMP inverses are studied.

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