THE CLASS OF EVOLUTIONARY FERRODYNAMIC EQUATIONS

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Abstract

A linear manifold ${\rm K}_2$ of evolutionary equations for a pseudovector field on ${\rm K}_B R^3$ is described. An infinitisimal shift of each equation is determined by a second-order differential operator of divergent type. All operators are invariant with respect to space translations in ${\rm K} Bb R^3$, relative to time translations, and they are transformed by covariant way relative to rotations of ${\rm K} Bb R^3$. It is proved that the linear space ${\rm K} M^2_2 \$ subset ${\rm K}^2$ of differential operators preserving solenoidal property and unimodularity of the field is one-dimensional and an explicit form of such operators is found.

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