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					DUPLICATES	432
	authors	<ul style="list-style-type: none">Philippe Picard	authors	<ul style="list-style-type: none">Philippe Picard		
	title	Reduction and Exact Solutions of the Ideal Magnetohydrodynamic Equations	title	Reduction and Exact Solutions of the Ideal Magnetohydrodynamic Equations		
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	id	id-336274020731773086	id	id5722545402077584236		
	abstract	In this paper we use the symmetry reduction method to obtain invariant solutions of the ideal magnetohydrodynamic equations in (3+1) dimensions. These equations are invariant under a Galilean-similitude Lie algebra for which the classification by conjugacy classes of r-dimensional subalgebras (1≤r≤ 4) was already known. So we restrict our study to the three-dimensional Galilean-similitude subalgebras that give systems composed of ordinary differential equations. We present here several examples of these solutions. Some of these exact solutions show interesting physical interpretations.	abstract	In this paper we use the symmetry reduction method to obtain invariant solutions of the ideal magnetohydrodynamic equations in (3+1) dimensions. These equations are invariant under a Galilean-similitude Lie algebra for which the classification by conjugacy classes of r-dimensional subalgebras (1≤r≤ 4) was already known. So we restrict our study to the three-dimensional Galilean-similitude subalgebras that give systems composed of ordinary differential equations. We present here several examples of these solutions. Some of these exact solutions show interesting physical interpretations.		
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