

cases	doc_1		doc_2		decision	id
			authors	<ul style="list-style-type: none">Dimitri CobbFrancesco Fanelli	DUPLICATES	967
			title	Symmetry breaking in ideal magnetohydrodynamics: the role of the velocity		
			publication_date	2021-02-26 16:51:37+00:00		
			source	SupportedSources.ARXIV		
			journal	None		
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			urls	<ul style="list-style-type: none">http://arxiv.org/pdf/2102.13586v1http://arxiv.org/abs/2102.13586v1http://arxiv.org/pdf/2102.13586v1		
			id	id-43925019468905220		
			abstract	The ideal magnetohydrodynamic equations are, roughly speaking, a quasi-linear symmetric hyperbolic system of PDEs, but not all the unknowns play the same role in this system. Indeed, in the regime of small magnetic fields, the equations are close to the incompressible Euler equations. In the present paper, we adopt this point of view to study questions linked with the lifespan of strong solutions to the ideal magnetohydrodynamic equations. First of all, we prove a continuation criterion in terms of the velocity field only. Secondly, we refine the explicit lower bound for the lifespan of S^2 -D flows found in [11], by relaxing the regularity assumptions on the initial magnetic field.		
			versions			
			authors	<ul style="list-style-type: none">D. CobbF. Fanelli		
			title	Symmetry breaking in ideal magnetohydrodynamics: the role of the velocity		
			publication_date	2021-02-26 00:00:00		
			source	SupportedSources.SEMANTIC_SCHOLAR		
			journal	Journal of Elliptic and Parabolic Equations		
			volume	7		
			doi	10.1007/s41808-021-00105-0		
			urls	<ul style="list-style-type: none">https://www.semanticscholar.org/paper/178932f4be021cceb912929e77154e29e2581dc		
			id	id1262168820855765753		
			abstract	None		
			versions			