

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Dongho Chae	authors	<ul style="list-style-type: none">Dongho Chae	DUPLICATES	381
	title	Nonexistence of self-similar singularities in the viscous magnetohydrodynamics with zero resistivity	title	Nonexistence of self-similar singularities in the viscous magnetohydrodynamics with zero resistivity		
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	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/math/0703830v2http://arxiv.org/abs/math/0703830v2http://arxiv.org/pdf/math/0703830v2	urls	<ul style="list-style-type: none">https://archive.org/download/arxiv-math0703830/math0703830.pdf		
	id	id-8086557363954333871	id	id2509605109875164650		
	abstract	We are concerned on the possibility of finite time singularity in a partially viscous magnetohydrodynamic equations in \mathbb{R}^n , $n=2,3$, namely the MHD with positive viscosity and zero resistivity. In the special case of zero magnetic field the system reduces to the Navier-Stokes equations in \mathbb{R}^n . In this paper we exclude the scenario of finite time singularity in the form of self-similarity, under suitable integrability conditions on the velocity and the magnetic field. We also prove the nonexistence of asymptotically self-similar singularity. This provides us information on the behavior of solutions near possible singularity of general type as described in Corollary 1.1 below.	abstract	We are concerned on the possibility of finite time singularity in a partially viscous magnetohydrodynamic equations in \mathbb{R}^n , $n=2,3$, namely the MHD with positive viscosity and zero resistivity. In the special case of zero magnetic field the system reduces to the Navier-Stokes equations in \mathbb{R}^n . In this paper we exclude the scenario of finite time singularity in the form of self-similarity, under suitable integrability conditions on the velocity and the magnetic field. We also prove the nonexistence of asymptotically self-similar singularity. This provides us information on the behavior of solutions near possible singularity of general type as described in Corollary 1.1 below.		
	versions		versions			