

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Xin Zhong</li></ul>	authors	<ul style="list-style-type: none"><li>Xin Zhong</li></ul>	NOT DUPLICATES	1228
	title	Strong solutions to the Cauchy problem of the two-dimensional non-baratropic non-resistive magnetohydrodynamic equations with zero heat conduction	title	Singularity formation to the Cauchy problem of the two-dimensional non-baratropic magnetohydrodynamic equations without heat conductivity		
	publication_date	2018-01-21 07:26:51+00:00	publication_date	2018-01-28 16:35:33+00:00		
	source	SupportedSources.ARXIV	source	SupportedSources.ARXIV		
	journal	None	journal	None		
	volume		volume			
	doi		doi			
	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/1801.07589v1</li><li>http://arxiv.org/abs/1801.07589v1</li><li>http://arxiv.org/pdf/1801.07589v1</li></ul>	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/1801.10036v2</li><li>http://arxiv.org/abs/1801.10036v2</li><li>http://arxiv.org/pdf/1801.10036v2</li></ul>		
	id	id-6231006253138824330	id	id-8022108813379542169		
abstract	This paper concerns the Cauchy problem of the non-baratropic non-resistive magnetohydrodynamic (MHD) equations with zero heat conduction on the whole two-dimensional (2D) space with vacuum as far field density. By delicate weighted energy estimates, we prove that there exists a local strong solution provided the initial density and the initial magnetic decay not too slow at infinity.	abstract	We study the singularity formation of strong solutions to the two-dimensional (2D) Cauchy problem of the non-baratropic compressible magnetohydrodynamic equations without heat conductivity. It is proved that the strong solution exists globally if the density and the pressure are bounded from above. In particular, the criterion is independent of the magnetic field and is just the same as that of the compressible Navier-Stokes equations. Our method relies on weighted energy estimates and a Hardy-type inequality.			
versions		versions				