

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Anthony Suen</li></ul>			NOT DUPLICATES	1224
	title	Global regularity for the 3D compressible magnetohydrodynamics with general pressure	authors	<ul style="list-style-type: none"><li>Anthony Suen</li></ul>		
	publication_date	2020-12-05 08:10:41+00:00	title	Global Solutions of the Equations of 3D Compressible Magnetohydrodynamics with Zero Resistivity		
	source	SupportedSources.ARXIV	publication_date	2020-11-13 00:00:00		
	journal	None	source	SupportedSources.INTERNET_ARCHIVE		
	volume		journal			
	doi		volume			
	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/2012.02971v1</li><li>http://arxiv.org/abs/2012.02971v1</li><li>http://arxiv.org/pdf/2012.02971v1</li></ul>	doi			
	id	id8287110840224045939	urls	<ul style="list-style-type: none"><li>https://web.archive.org/web/20201117004631/https://arxiv.org/pdf/1202.4081v5.pdf</li></ul>		
	abstract	We address the compressible magnetohydrodynamics (MHD) equations in $\mathbb{R}^3$ and establish a blow-up criterion for the local strong solutions in terms of the density only. Namely, if the density is away from vacuum ( $\rho=0$ ) and the concentration of mass ( $\rho=\infty$ ), then a local strong solution can be continued globally in time. The results generalise and strengthen the previous ones in the sense that there is no magnetic field present in the criterion and the assumption on the pressure is significantly relaxed. The proof is based on some new a priori estimates for three-dimensional compressible MHD equations.	id	id1091475489930009947		
	versions		abstract	We prove the global-in-time existence of $H^2$ solutions of the equations of compressible magnetohydrodynamics with zero magnetic resistivity in three space dimensions. Initial data are taken to be small in $H^2$ modulo a constant state and initial densities are positive and essentially bounded. The present work generalizes the results obtained by Kawashima.		
			versions			