

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Xumin Gu</li></ul>	authors	<ul style="list-style-type: none"><li>Xumin Gu</li></ul>	NOT DUPLICATES	1231
	title	Well-posedness of axially symmetric incompressible ideal magnetohydrodynamic equations with vacuum under the Rayleigh-Taylor sign condition	title	Well-posedness of axially symmetric incompressible ideal magnetohydrodynamic equations with vacuum under the non-collinearity condition		
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	urls	<ul style="list-style-type: none"><li>https://openalex.org/W2774144241</li></ul>	urls	<ul style="list-style-type: none"><li>https://www.semanticscholar.org/paper/c2460ccd67f1f82e9f44ce419d41de29bef314b6</li></ul>		
	id	id-3965781455800267675	id	id-475301048772190966		
	abstract		abstract	We consider a free boundary problem for the axially symmetric incompressible ideal magnetohydrodynamic equations that describes the motion of the plasma in vacuum. Both the plasma magnetic field and vacuum magnetic field are tangent along the plasma-vacuum interface. Moreover, the vacuum magnetic field is composed in a non-simply connected domain and hence is non-trivial. Under the non-collinearity condition on the free surface, we prove the local well-posedness of the problem in Sobolev spaces.		
	versions		versions			