

cases	doc_1		doc_2		decision	id
			authors	<ul style="list-style-type: none">Chengchun HaoTao Luo	DUPLICATES	1001
	authors	<ul style="list-style-type: none">Chengchun HaoT. Luo	title	Well-posedness for the Linearized Free Boundary Problem of Incompressible Ideal Magnetohydrodynamics Equations		
	title	Well-posedness for the Linearized Free Boundary Problem of Incompressible Ideal Magnetohydrodynamics Equations.	publication_date	2019-12-16 00:00:00		
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	journal	arXiv: Analysis of PDEs	volume			
	volume		doi			
	doi	10.1016/j.jde.2021.07.030	urls	<ul style="list-style-type: none">https://web.archive.org/web/20200827172520/https://arxiv.org/pdf/1912.05908v2.pdf		
	urls	<ul style="list-style-type: none">https://www.semanticscholar.org/paper/0ccdb012c0a3a842d9bd18affd3fee0f388afc71	id	id7843399000927361114		
	id	id5237170181784795285	abstract	We study the well-posedness theory for the linearized free boundary problem of incompressible ideal magnetohydrodynamics equations in a bounded domain. We express the magnetic field in terms of the velocity field and the deformation tensors in the Lagrangian coordinates, and substitute the magnetic field into the momentum equation to get an equation of the velocity in which the initial magnetic field serves only as a parameter. Then, we linearize this equation with respect to the position vector field whose time derivative is the velocity, and obtain the local-in-time well-posedness of the solution by using energy estimates of the tangential derivatives and the curl with the help of Lie derivatives and the smooth-out approximation.		
	abstract	None	versions			
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