

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Morando, AlessandroTrakhinin, YuriTrebeschi, Paola	authors	<ul style="list-style-type: none">Alessandro MorandoYuri TrakhininPaola Trebeschi	DUPLICATES	1075
	title	Well-posedness of the linearized problem for contact MHD discontinuities	title	Well-posedness of the linearized problem for contact MHD discontinuities		
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	id	id-7500391687381921900	id	id7664015258450983806		
	abstract	We study the free boundary problem for contact discontinuities in ideal compressible magnetohydrodynamics (MHD). They are characteristic discontinuities with no flow across the discontinuity for which the pressure, the magnetic field and the velocity are continuous whereas the density and the entropy may have a jump. Under the Rayleigh-Taylor sign condition $[\partial p/\partial N]<0$ on the jump of the normal derivative of the pressure satisfied at each point of the unperturbed contact discontinuity, we prove the well-posedness in Sobolev spaces of the linearized problem for 2D planar MHD flows.Comment: 40 page	abstract	We study the free boundary problem for contact discontinuities in ideal compressible magnetohydrodynamics (MHD). They are characteristic discontinuities with no flow across the discontinuity for which the pressure, the magnetic field and the velocity are continuous whereas the density and the entropy may have a jump. Under the Rayleigh-Taylor sign condition $[\partial p/\partial N]<0$ on the jump of the normal derivative of the pressure satisfied at each point of the unperturbed contact discontinuity, we prove the well-posedness in Sobolev spaces of the linearized problem for 2D planar MHD flows.		
	versions		versions			