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	authors	• Xumin Gu	**authors**	• Gu, X. • ,School of Mathematics, Shanghai University of Finance and Economics, Shanghai Center of Mathematical Sciences, China	DUPLICATES	1046
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	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.	**abstract**			
	versions		**versions**			