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	<table><tr><td>**authors**</td><td>• Xumin Gu</td></tr><tr><td>**title**</td><td>Well-posedness of axially symmetric incompressible ideal magnetohydrodynamic equations with vacuum under the Rayleigh-Taylor sign condition</td></tr><tr><td>**publication_date**</td><td>2017-12-06 00:00:00</td></tr><tr><td>**source**</td><td>SupportedSources.OPENALEX</td></tr><tr><td>**journal**</td><td>arXiv (Cornell University)</td></tr><tr><td>**volume**</td><td></td></tr><tr><td>**doi**</td><td>None</td></tr><tr><td>**urls**</td><td>• https://openalex.org/W2774144241</td></tr><tr><td>**id**</td><td>id-3965781455800267675</td></tr><tr><td>**abstract**</td><td></td></tr><tr><td>**versions**</td><td></td></tr></table>	<table><tr><td>**authors**</td><td>• Xumin Gu</td></tr><tr><td>**title**</td><td>Well-posedness of axially symmetric incompressible ideal magnetohydrodynamic equations with vacuum under the non-collinearity condition</td></tr><tr><td>**publication_date**</td><td>2017-11-23 10:42:58+00:00</td></tr><tr><td>**source**</td><td>SupportedSources.ARXIV</td></tr><tr><td>**journal**</td><td>None</td></tr><tr><td>**volume**</td><td></td></tr><tr><td>**doi**</td><td></td></tr><tr><td>**urls**</td><td>• http://arxiv.org/pdf/1711.09757v1 • http://arxiv.org/abs/1711.09757v1 • http://arxiv.org/pdf/1711.09757v1</td></tr><tr><td>**id**</td><td>id-4316584226019069776</td></tr><tr><td>**abstract**</td><td>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.</td></tr><tr><td>**versions**</td><td></td></tr></table>	NOT DUPLICATES	1232