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	authors	• Dongho Chae • Joerg Wolf	authors	• Dongho Chae • Joerg Wolf	NOT DUPLICATES	1284
	title	On partial regularity for the steady Hall magnetohydrodynamics system	title	On partial regularity for the $3D$ non-stationary Hall magnetohydrodynamics equations on the plane		
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	abstract	We study partial regularity of suitable weak solutions of the steady Hall magnetohydrodynamics equations in a domain $\Omega \subset \Bbb R^3$. In particular we prove that the set of possible singularities of the suitable weak solution has Hausdorff dimension at most one. Moreover, in the case $\Omega=\Bbb R^3$, we show that the set of possible singularities is compact.	abstract	We study partial regularity of weak solutions of the 3D valued non-stationary Hall magnetohydrodynamics equations on $\Bbb R^2$. In particular we prove the existence of a weak solution whose set of possible singularities has the space-time Hausdorff dimension at most two.		
	versions		versions			