cases	doc_1		doc_2		decision	id
			authors	• P. S. Bisht • Pushpa • O. P. S. Negi	DUPLICATES	1091
			title	Magnetohydrodynamics in Presence of Electric and Magnetic charges		
			publication_date	2010-01-23 09:09:40+00:00		
			source	SupportedSources.ARXIV		
			journal	None		
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			urls	• http://arxiv.org/pdf/1001.4141v2 • http://arxiv.org/abs/1001.4141v2 • http://arxiv.org/pdf/1001.4141v2		
			id	id8464124195077418071		
			abstract	Starting with the generalized electromagnetic field equations of dyons, we have discussed the theory of magnetohydrodynamics (MHD) of plasma for particles carrying simultaneously the electric and magnetic charges (namely dyons). It is shown that the resultant system supports the electromagnetic duality of dyons. Consequently the frequency of dyonic plasma has been obtained and it is emphasized that there is a different plasma frequency for each species depending on wave number k. For k to be real, only those generalized electromagnetic waves are allowed to pass, for which the usual frequency is greater than the plasma frequency (i.e. \omega>\omega_{p}). It is shown that the plasma frequency sets the lower cuts for the frequencies of electromagnetic radiation that can pass through a plasma . Accordingly the ohm's law has been reestablished to derive the plasma oscillation equation as well as the magetohydrodynamic wave equation and the energy of dyons in unique and consistent manner.		
			versions			
		authors	• Praveen Singh Bisht • . . Pushpa • O. P. S. Negi			
		title	Magnetohydrodynamics in Presence of Electric and Magnetic charges			
		publication_date	2012-06-07 00:00:00			
		source	SupportedSources.INTERNET_ARCHIVE			
		journal	Publishing House for Science and Technology, Vietnam Academy of Science and Technology			
		volume				
		doi	10.15625/0868-3166/22/2/180			
		urls	• https://web.archive.org/web/20180720072644/http://vjs.ac.vn/index.php/cip/article/download/180/pdf			
		id	id56379870287816951 47			
		abstract	Starting from the generalized electromagnetic field equations of dyons, the magnetohydrodynamics (MHD) of plasma for particles carrying simultaneously the electric and magnetic charges (namely dyons), has been reformulated in terms of the electromagnetic duality. Consequently, the frequency of dyonic plasma is obtained for real value of wave number \(k\). In this case, only those generalized electromagnetic waves are allowed to pass, for which the usual frequency is greater than the plasma frequency (i.e. \(\omega>\omega_{p}\)). Accordingly, the Ohm's law has been re-described to derive the plasma oscillation equation, Magnetohydrodynamic wave equation and to calculate the energy of dyons in unique and consistent manner.			
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