

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Nicola, F.</li><li>Rodino, L.</li></ul>	authors	<ul style="list-style-type: none"><li>Fabio Nicola</li><li>Luigi Rodino</li></ul>	DUPLICATES	395
	title	Global regularity for ordinary differential operators with polynomial coefficients	title	Global regularity for ordinary differential operators with polynomial coefficients		
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	doi	10.1016/j.jde.2013.07.022	doi			
	urls	<ul style="list-style-type: none"><li>https://api.elsevier.com/content/article/PII:S0022039613002891?httpAccept=text/xml</li><li>https://api.elsevier.com/content/article/PII:S0022039613002891?httpAccept=text/plain</li><li>http://dx.doi.org/10.1016/j.jde.2013.07.022</li></ul>	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/1106.6203v1</li><li>http://arxiv.org/abs/1106.6203v1</li><li>http://arxiv.org/pdf/1106.6203v1</li></ul>		
	id	id-7994445294064767403	id	id-4172228364970357100		
	abstract		abstract	For a class of ordinary differential operators $SP$ with polynomial coefficients, we give a necessary and sufficient condition for $SP$ to be globally regular in $\mathbb{R}$ , i.e. $Su\in\mathcal{C}^{\prime}(\mathbb{R})$ and $Spu\in\mathcal{C}(\mathbb{R})$ imply $Su\in\mathcal{C}(\mathbb{R})$ (this can be regarded as a global version of the Schwartz' hypoellipticity notion). The condition involves the asymptotic behaviour, at infinity, of the roots $\xi=\xi_j(x)$ of the equation $Sp(x,\xi)=0$ , where $Sp(x,\xi)$ is the (Weyl) symbol of $SP$ .		
	versions		versions			