	doc_1		doc_2		decision	id
cases	authors • Valerii Los		authors	V. Los V. Mikhailets A. Murach		
	authors	Vladimir Mikhailets	title	Parabolic problems in generalized Sobolev spaces		1
		Aleksandr A. Murach	publication_date	2019-07-09 00:00:00		1
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		Parabolic problems in generalized Sobolev spaces.	journal			
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	journal	arXiv (Cornell University)	urls	• https://www.semanticscholar.org/paper/707c898e951aba4fb0bdfed7e0586d1cf8a5cc2d	DUPLICATES	
	volume		id	id3819320825886976042	1	
	doi	None	lu lu	<pre>cy style='text-indent:20px;'>We consider a general inhomogeneous parabolic initial-boundary value problem for a <inline-formula><tex-math id="M1">\begin{document}\$</tex-math></inline-formula></pre>		1
	urls	https://openalex.org/W2956370941		2b \$\end{document}-parabolic differential equation given in a finite multidimensional cylinder. We investigate the solvability of this problem in some generalized anisotropic Sobolev spaces. They are parametrized with a pair of positive numbers <inline-formula><tex-math id="M2">\begin{document}\$ s</tex-math></inline-formula>		
	id	id4989075490424353423	abstract	\\$\end{\document}<\\tex-math><\inline-formula>\and \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	y at Inate Issue I	
	abstract			with a function <inline-formula><tex-math id="M4">\begin {document}\$ \varphi:[1,\infty)\to(0,\infty) \$\end {document}</tex-math></inline-formula> that varies slowly at infinity. The function parameter <inline-formula><tex-math id="M5">\begin {document}\$ \varphi \$\end {document}</tex-math></inline-formula> characterizes subordinate		
	versions			egularity of distributions with respect to the power regularity given by the number parameters. We prove that the operator corresponding to this problem is an isomorphism		
				on appropriate pairs of these spaces. As an application, we give a theorem on the local regularity of the generalized solution to the problem. We also obtain sharp sufficient conditions under which chosen generalized derivatives of this solution are continuous on a given set.		
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