

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Mark Dorodnyi			DUPLICATES	366
	title	Operator error estimates for homogenization of the nonstationary Schrödinger-type equations: sharpness of the results	authors	<ul style="list-style-type: none">M. Dorodnyi		
	publication_date	2020-05-12 13:01:55+00:00	title	Operator error estimates for homogenization of the nonstationary Schrödinger-type equations: sharpness of the results		
	source	SupportedSources.ARXIV	publication_date	2020-05-12 00:00:00		
	journal	None	source	SupportedSources.SEMANTIC_SCHOLAR		
	volume		journal	Applicable Analysis		
	doi		volume	101		
	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/2005.06516v1http://arxiv.org/abs/2005.06516v1http://arxiv.org/pdf/2005.06516v1	doi	10.1080/00036811.2021.1901886		
	id	id6066491460610571383	urls	<ul style="list-style-type: none">https://www.semanticscholar.org/paper/9526306582908a82b5ad230490511e9a5a5a5e75		
	abstract	In $L_2(\mathbb{R}^d; \mathbb{C}^n)$, we consider a selfadjoint matrix strongly elliptic second order differential operator \mathcal{A}_ε with periodic coefficients depending on \mathbf{x}/ε . We find approximations of the exponential $e^{-i\tau \mathcal{A}_\varepsilon}$, $\tau \in \mathbb{R}$, for small ε in the $(H^s \rightarrow L_2)$ -operator norm with suitable s . The sharpness of the error estimates with respect to τ is discussed. The results are applied to study the behavior of the solution \mathbf{u}_ε of the Cauchy problem for the Schrödinger-type equation $i\partial_\tau \mathbf{u}_\varepsilon = \mathcal{A}_\varepsilon \mathbf{u}_\varepsilon + \mathbf{F}$.	id	id7059994715517950858		
			abstract	In , we consider a self-adjoint matrix strongly elliptic second-order differential operator with periodic coefficients depending on . We find approximations of the exponential , , for small μ in the (\cdot) -operator norm with suitable s . The sharpness of the error estimates with respect to \tilde{I} , is discussed. The results are applied to study the behavior of the solution of the Cauchy problem for the Schrödinger-type equation .		
	versions		versions			