

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Svetlana Pastukhova	authors	<ul style="list-style-type: none">Svetlana Pastukhova	NOT DUPLICATES	479
	title	On resolvent approximations of elliptic differential operators with periodic coefficients	title	On resolvent approximations of elliptic differential operators with locally periodic coefficients		
	publication_date	2020-01-06 18:26:45+00:00	publication_date	2020-01-07 21:40:25+00:00		
	source	SupportedSources.ARXIV	source	SupportedSources.ARXIV		
	journal	None	journal	None		
	volume		volume			
	doi		doi			
	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/2001.01701v1http://arxiv.org/abs/2001.01701v1http://arxiv.org/pdf/2001.01701v1	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/2001.02281v1http://arxiv.org/abs/2001.02281v1http://arxiv.org/pdf/2001.02281v1		
	id	id-6809699151642344167	id	id293057217718041291		
	abstract	We study resolvent approximations for elliptic differential nonselfadjoint operators with periodic coefficients in the limit of the small period. The class of operators covered by our analysis includes uniformly elliptic families with bounded coefficients and also with unbounded coefficients from the John-Nirenberg space \$BMOS\$ (bounded mean oscillation). We apply the modified method of the first approximation with the usage of Steklov's smoothing.	abstract	We study the asymptotic behaviour, as the small parameter \$\varepsilon\$ tends to zero, of the resolvents of uniformly elliptic second-order differential operators with locally periodic coefficients depending on the slow variable \$x\$ and the fast variable \$x/\varepsilon\$, with periodicity only in the fast variable. We provide a construction for the leading terms in the operator asymptotics of these resolvents in the sense of \$L^2\$-operator-norm convergence with order \$\varepsilon^2\$ remainder estimates. We apply the modified method of the first approximation with the usage of the shift.		
	versions		versions			