

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Vladimir Kozlov</li><li>Jari Taskinen</li></ul>			DUPLICATES	376
	title	Floquet Problem and Center Manifold Reduction for Ordinary Differential Operators with Periodic Coefficients in Hilbert Spaces	authors	<ul style="list-style-type: none"><li>V. Kozlov</li><li>J. Taskinen</li></ul>		
	publication_date	2019-05-20 05:56:29+00:00	title	Floquet Problem and Center Manifold Reduction for Ordinary Differential Operators with Periodic Coefficients in Hilbert Spaces		
	source	SupportedSources.ARXIV	publication_date	2019-05-20 00:00:00		
	journal	None	source	SupportedSources.SEMANTIC_SCHOLAR		
	volume		journal	arXiv: Analysis of PDEs		
	doi		volume			
	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/1905.07890v2</li><li>http://arxiv.org/abs/1905.07890v2</li><li>http://arxiv.org/pdf/1905.07890v2</li></ul>	doi	10.1090/SPMJ/1660		
	id	id-6316163010247574111	urls	<ul style="list-style-type: none"><li>https://www.semanticscholar.org/paper/518f03639f96e63a951aa3a619c9e4855a126ba3</li></ul>		
	abstract	A first order differential equation with a periodic operator coefficient acting in a pair of Hilbert spaces is considered. This setting models both elliptic equations with periodic coefficients in a cylinder and parabolic equations with time periodic coefficients. Our main results are a construction of a pointwise projector and a spectral splitting of the system into a finite dimensional system of ordinary differential equations with constant coefficients and an infinite dimensional part whose solutions have better properties in a certain sense. This complements the well-known asymptotic results for periodic hypoelliptic problems in cylinders (Kuchment) and for elliptic problems in quasicylinders (Nazarov). As an application we give a center manifold reduction for a class of non-linear ordinary differential equations in Hilbert spaces with periodic coefficients. This result generalizes the known case with constant coefficients (Mielke).	id	id-6710548294645891965		
	versions		abstract	A first order differential equation with a periodic operator coefficient acting in a pair of Hilbert spaces is considered. This setting models both elliptic equations with periodic coefficients in a cylinder and parabolic equations with time periodic coefficients. Our main results are a construction of a pointwise projector and a spectral splitting of the system into a finite dimensional system of ordinary differential equations with constant coefficients and an infinite dimensional part whose solutions have better properties in a certain sense. This complements the well-known asymptotic results for periodic hypoelliptic problems in cylinders (Kuchment) and for elliptic problems in quasicylinders (Nazarov). As an application we give a center manifold reduction for a class of non-linear ordinary differential equations in Hilbert spaces with periodic coefficients. This result generalizes the known case with constant coefficients (Mielke).		
			versions			