cases	doc_1		doc_2		decision	id
	authors	• O. Wittich	**authors**	• Wittich, O.	DUPLICATES	1508
	title	Smooth Homogenization of Heat Equations on Tubular Neighborhoods	**title**	Smooth Homogenization of Heat Equations on Tubular Neighborhoods		
	publication_date	2008-10-28 15:28:30+00:00	**publication_date**	2008-01-01 00:00:00		
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	urls	• http://arxiv.org/pdf/0810.5052v1 • http://arxiv.org/abs/0810.5052v1 • http://arxiv.org/pdf/0810.5052v1	**urls**	• http://arxiv.org/abs/0810.5052		
	id	id4069236586630054519	**id**	id1885857527409798129		
	abstract	We consider the heat equation with Dirichlet boundary conditions on the tubular neighborhood of a closed Riemannian submanifold. We show that, as the tube diameter tends to zero, a suitably rescaled and renormalized semigroup converges to a limit semigroup in Sobolev spaces of arbitrarily large Sobolev index.	**abstract**	We consider the heat equation with Dirichlet boundary conditions on the tubular neighborhood of a closed Riemannian submanifold. We show that, as the tube diameter tends to zero, a suitably rescaled and renormalized semigroup converges to a limit semigroup in Sobolev spaces of arbitrarily large Sobolev index.Comment: 30 page		
	versions		**versions**			