cases	doc_1		doc_2		decision	id
	authors	• O. Wittich	**authors**	• O. Wittich	DUPLICATES	237
	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**	2008-10-28 00:00:00		
	source	SupportedSources.ARXIV	**source**	SupportedSources.INTERNET_ARCHIVE		
	journal	None	**journal**			
	volume		**volume**			
	doi		**doi**			
	urls	• http://arxiv.org/pdf/0810.5052v1 • http://arxiv.org/abs/0810.5052v1 • http://arxiv.org/pdf/0810.5052v1	**urls**	• https://archive.org/download/arxiv-0810.5052/0810.5052.pdf		
	id	id4069236586630054519	**id**	id-6229518661659794769		
	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.		
	versions		**versions**			