cases		doc_1		doc_2	decision	id
	authors	• O. Wittich	authors	• Wittich, O.		
	title	Smooth Homogenization of Heat Equations on Tubular Neighborhoods	title	Smooth Homogenization of Heat Equations on Tubular Neighborhoods		
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	id	id-6229518661659794769	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		
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