

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Gastao A. BragaFrederico FurtadoJussara M. MoreiraLeonardo T. Rolla	authors	<ul style="list-style-type: none">G. BragaF. FurtadoJ. M. MoreiraL. Rolla	DUPLICATES	132
	title	Renormalization Group Analysis of Nonlinear Diffusion Equations with Periodic Coefficients	title	Renormalization Group Analysis of Nonlinear Diffusion Equations with Periodic Coefficients		
	publication_date	2009-06-11 20:30:37+00:00	publication_date	2009-06-11 00:00:00		
	source	SupportedSources.ARXIV	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal	SIAM Multiscale Modeling and Simulation, v. 1, n. 4, p. 630-644, 2003	journal	Multiscale Model. Simul.		
	volume		volume	1		
	doi		doi	10.1137/S1540345902416600		
	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/0906.2206v2http://arxiv.org/abs/0906.2206v2http://arxiv.org/pdf/0906.2206v2	urls	<ul style="list-style-type: none">https://www.semanticscholar.org/paper/6ac9b23135ff65bd2aa03b68c1772ed283a33c75		
	id	id-7715277317608228980	id	id1505818839676438368		
	abstract	In this paper we present an efficient numerical approach based on the Renormalization Group method for the computation of self-similar dynamics. The latter arise, for instance, as the long-time asymptotic behavior of solutions to nonlinear parabolic partial differential equations. We illustrate the approach with the verification of a conjecture about the long-time behavior of solutions to a certain class of nonlinear diffusion equations with periodic coefficients. This conjecture is based on a mixed argument involving ideas from homogenization theory and the Renormalization Group method. Our numerical approach provides a detailed picture of the asymptotics, including the determination of the effective or renormalized diffusion coefficient.	abstract	In this paper we present an efficient numerical approach based on the renormalization group method for the computation of self-similar dynamics. The latter arise, for instance, as the long-time asymptotic behavior of solutions to nonlinear parabolic partial differential equations. We illustrate the approach with the verification of a conjecture about the long-time behavior of solutions to a certain class of nonlinear diffusion equations with periodic coefficients. This conjecture is based on a mixed argument involving ideas from homogenization theory and the renormalization group method. Our numerical approach provides a detailed picture of the asymptotics, including the determination of the effective or renormalized diffusion coefficient.		
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