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Regularity of Solutions of the Cahn-Hilliard Equation with non-Constant Mobility

刘长春(1), 齐远伟(2), 尹景学(1)

(1)长春吉林大学数学系; (2)Department of Mathematics, University of California, Santa Barbara, CA 93106, USA 长春吉林大学数学系

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摘要 In this paper, we study the regularity of solutions for two-dimensional Cahn-Hilliard equation with non-constant mobility. Basing on the L^p type estimates and Schauder type estimates, we prove the global existence of classical solutions.

关键词 [Cahn-Hilliard equation](#) [regularity](#) [Schauder estimates](#)

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Chang Chun LIU(1), Yuan Wei(2), QI Jing Xue YIN(1)

(1)Department of Mathematics, Jilin University, Changchun 130012, P.R. China; (2)Department of Mathematics, University of California, Santa Barbara, CA 93106, USA Department of Mathematics, Jilin University, Changchun 130012, P.R. China

Abstract In this paper, we study the regularity of solutions for two-dimensional Cahn-Hilliard equation with non-constant mobility. Basing on the L^p type estimates and Schauder type estimates, we prove the global existence of classical solutions.

Key words [Cahn-Hilliard equation](#) [regularity](#) [Schauder estimates](#)

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通讯作者 刘长春 lcc@email.jlu.edu.cn

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