论文

REMARKS ON DIFFUSIVITY VERSUS ABSORPTION THROUGH THE BOUNDARY

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Abstract In this paper we solve an open problem of [1], and prove that in the criticalcase $m = 2\alpha - 1 > 1$, the solution of problem (D) exists globally. Moreover, \forall u_0\in C^{2+\gamma}(\overline\Omega) with u_0(x)>0 on \overline \Omega}, there exist positive constants C and K which depend only on $|u_0|_{L^{\infty}}$ such that $u(x, t) \leq C \exp(m^{-1}k \cdot 1)$.

Key words Diffusivity nonlinear boundary condition global existence upper-lower solutions

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