Forward asymptotic behaviour of positive solutions in a non-autonomous logistic equation*

J. A. Langa, J. C. Robinson, A. Rodríguez-Bernal, <u>A. Suárez</u>, A. Vidal

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Abstract

The goal of this communication is to study the forward dynamics of positive solutions for the non-autonomous logistic equation $u_t - \Delta u = \lambda u - b(t)u^p$, with p>1, b(t)>0, for all $t\in\mathbb{R}$, $\lim_{t\to\infty}b(t)=0$. While the pullback asymptotic behaviour for this equation is simple and well-known, several different possibilities are realized in the forward asymptotic regime.

^{*}oral communication.