

On two-signed solutions to a second order semi-linear parabolic partial differential equation with non-Lipschitz nonlinearity

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Abstract

In this paper, we establish the existence of a 1-parameter family of spatially inhomogeneous radially symmetric classical self-similar solutions to a Cauchy problem for a semi-linear parabolic PDE with non-Lipschitz nonlinearity and trivial initial data. Specifically we establish well-posedness for an associated initial value problem for a singular two-dimensional non-autonomous dynamical system with non-Lipschitz nonlinearity. Additionally, we establish that solutions to the initial value problem converge algebraically to the origin and oscillate as $\eta \rightarrow \infty$.

1 Introduction

In this paper we consider $u : \bar{D}_T \rightarrow \mathbb{R}$ such that $u = u(x, t)$ is continuous and bounded on $\bar{D}_T := \mathbb{R}^n \times [0, T]$ and, for fixed $n \in \mathbb{N}$, u_t , u_{x_i} and $u_{x_i x_j}$ exist and are continuous on $D_T := \mathbb{R}^n \times (0, T]$ for each $1 \leq i, j \leq n$. Moreover, we suppose that u is a solution to the following Cauchy problem for the second order semi-linear parabolic partial differential equation with non-Lipschitz (Hölder continuous) nonlinearity, given by

$$u_t - \Delta u = u|u|^{p-1} \quad \text{on} \quad D_T, \quad (1.1)$$

$$u = 0 \quad \text{on} \quad \partial D_T, \quad (1.2)$$

$$u \in C^{2,1}(D_T) \cap C(\bar{D}_T) \cap L^\infty(\bar{D}_T), \quad (1.3)$$

with $T > 0$, $0 < p < 1$ and $\partial D_T := \mathbb{R}^n \times \{0\}$. Here $C^{2,1}(X)$ denotes the set of functions that are defined on X which are continuously differentiable twice with respect to the spatial variables x , and once with respect to the time variable t ; $C(X)$ denotes the set of functions that are defined and continuous on X ; and $L^\infty(X)$ denotes the set of functions with bounded essential supremum and infimum. We refer to the Cauchy problem in (1.1)-(1.3) as [CP] and $u : \bar{D}_T \rightarrow \mathbb{R}$ satisfying (1.1)-(1.3) as a solution to [CP]. In addition, throughout the paper we denote $(x, t) \in \bar{D}_T$ as $(x_1, x_2, \dots, x_n, t)$, for $x \in \mathbb{R}^n$, $t \in [0, T]$.

The existence of spatially inhomogeneous classical self-similar solutions to [CP] with $n = 1$ has been considered in detail in [22]. In the paper, via consideration of a self-similar solution structure, a two-dimensional non autonomous dynamical system with non-Lipschitz nonlinearity was analysed and the existence of a two parameter family of homoclinic connections on the equilibrium point $(0, 0)$ of the dynamical system, as well as decay bounds and estimates on these connections, were established. Herein, we consider an analogously derived dynamical system in n -spatial dimensions, for $n \in \mathbb{N}$, and establish the existence of spatially inhomogeneous solutions to (1.1)-(1.3). Moreover, we establish a full well-posedness result for the initial value problem for the dynamical system. Furthermore, we prove that solutions oscillate as $\eta \rightarrow \infty$, which gives additional structural information about the aforementioned solutions in [22]. Curiously, oscillation theory of Sturmian type (see, for example [14] or [30]), when combined with algebraic decay bounds on solutions to the initial value problem for the dynamical system as $\eta \rightarrow \infty$, obtained here via an adaptation of a technical argument in [11], appear to be insufficient to establish oscillation of solutions as $\eta \rightarrow \infty$. Hence, we adopt a novel alternative

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