

Research Article

Mantang Ma* and Ruyun Ma

Existence and multiplicity of solutions for second-order Dirichlet problems with nonlinear impulses

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Abstract: We are concerned with Dirichlet problems of impulsive differential equations

$$\begin{cases} -u''(x) - \lambda u(x) + g(x, u(x)) + \sum_{j=1}^p I_j(u(x))\delta(x - y_j) = f(x) & \text{for a.e. } x \in (0, \pi), \\ u(0) = u(\pi) = 0, \end{cases}$$

where λ is a parameter and runs near 1, $f \in L^2(0, \pi)$, $I_j \in C(\mathbb{R}, \mathbb{R})$, $j = 1, 2, \dots, p$, $p \in \mathbb{N}$, the nonlinearity $g : [0, \pi] \times \mathbb{R} \rightarrow \mathbb{R}$ satisfies the Carathéodory condition, $\delta = \delta(x)$ denote the Dirac delta impulses concentrated at 0, which are applied at given points $0 < y_1 < y_2 < \dots < y_p < \pi$. We show the existence and multiplicity of solutions to the aforementioned problem for λ in a neighborhood of 1 by using degree theory and bifurcation theory.

Keywords: near resonance, impulsive differential equations, *a priori* bounds, bifurcation from infinity**MSC 2020:** 34B15, 34B37, 34C23

1 Introduction and main result

In this article, we are concerned with the existence and multiplicity of solutions for Dirichlet problems of impulsive differential equations

$$\begin{cases} -u''(x) - \lambda u(x) + g(x, u(x)) + \sum_{j=1}^p I_j(u(x))\delta(x - y_j) = f(x) & \text{for a.e. } x \in (0, \pi), \\ u(0) = u(\pi) = 0, \end{cases} \quad (1.1)$$

where λ is a parameter and runs near 1, $f \in L^2(0, \pi)$, $I_j : \mathbb{R} \rightarrow \mathbb{R}$ is continuous, $j = 1, 2, \dots, p$, $p \in \mathbb{N}$, the nonlinearity $g : [0, \pi] \times \mathbb{R} \rightarrow \mathbb{R}$ satisfies Carathéodory condition, $\delta = \delta(x)$ denote the Dirac delta impulses concentrated at 0, i.e., $\delta(x) = 0$ for $x \neq 0$, $\delta(0) = +\infty$, and $\int_{-\infty}^{+\infty} \delta(x)dx = 1$, the Dirac delta impulses δ are applied at given points $0 < y_1 < y_2 < \dots < y_p < \pi$.

In recent years, the existence and multiplicity of solutions for problem (1.1) with $I_j = 0$, $j = 1, 2, \dots, p$, have been extensively studied by many authors, see [1–6] and references therein. In particular, Mawhin and Schmitt [1] studied the Dirichlet problem with the parameter λ near the principal eigenvalue of the form:

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