

Full Length Research Paper

The (G'/G) -expansion method and the $\exp(-\phi(\xi))$ -expansion method with applications to a higher order dispersive nonlinear Schrödinger equation

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In this article, we study the connection between the (G'/G) -expansion method and the $\exp(-\phi(\xi))$ -expansion method with the aid of a suitable transformation. We employ these two methods to derive families of exact solutions for a higher order dispersive nonlinear Schrödinger equation describing the propagation of the optical pulse in a medium. Comparison between these two methods is presented. We show that the two methods as well as their results are equivalent.

Key words: Higher order dispersive nonlinear Schrödinger equation, The (G'/G) -expansion method, the $\exp(-\phi(\xi))$ -expansion method, exact solutions.

INTRODUCTION

Exact solutions of nonlinear partial differential equations (PDEs) are of fundamental and important in applied science because they are widely employed to explain some of the nonlinear phenomena and dynamical processes existed in nature world. Nonlinear wave phenomena appear in various scientific and engineering fields, such as fluid mechanics, plasma physics, optical fibers, biology, solid state physics and so on. In the recent decades, several powerful methods for finding the exact solutions of the nonlinear PDEs have been

proposed such as the tanh-method and its various extension (Parkes and Duffy, 1996; Fan, 2000; Yan, 2001), the Jacobi-elliptic function expansion method (Liu et al., 2001; Yan, 2003; Fu and Liu, 2003), the homogeneous balance method (Wang, 1995, 1996; Wang et al., 1996; Zayed and Amous, 2012), the F-expansion method and its extension (Wang and Zhou, 2003; Zhou et al., 2004; Wang and Li, 2005a, b; Zhang et al., 2006; Wang et al., 2007), the sub-ODE expansion method (Li and Wang, 2007; Wang et al., 2007; Yomba,

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