Unexpected configurations for the optical solitons propagation in lossy fiber system with dispersion terms effect

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Abstract

In this work, we will design unexpected configurations for the optical soliton propagation in lossy fiber system in presence the dispersion term solitons via two distinct and impressive techniques. The first one is the (G'/G)-expansion method, while the second is solitary wave ansatze method. The two methods are implemented in same vein and parallel. The obtained perceptions are new and weren't achieved before. The comparison between our achieved visions and that achieved by other authors who used different schemas has been documented.

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