

From Rogue Wave to Light Bullets for GP equation

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Abstract:

In this talk, the variable coefficient GP(VCGP) equation is discussed. By using a transformation which maps a VCGP to the well known usual NLS equation, the rogue waves of the 1D-VCGP, 2-VCGP and light bullets of the 3D-VCGP are given and are shown to be related to the rogue wave of the NLS equation. Several figures for these solutions are plotted to understand intuitively its dynamical evolution. This is a joint work with Prof. Yishen Li.

References:

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