Solitary Wave and Wavelet

LIU Shi-Da, FU Zun-Tao, LIU Shi-Kuo, XIN Guo-Jun, and LIANG Fu-Ming

School of Physics, Peking University, Beijing 100871, China

Abstract: In this paper, it is shown that the homoclinic orbits exist in iterated functional systems, so do the solitary wave structures. Moreover, Harr father wavelet, Mexican Cap wavelet, and other closed form wavelets have this solitary wave structure, too. So wavelet is a certain kind of solitary wave.

[Full text: PDF]

Close