Interactions among Peakons, Dromions, and Compactons in (2+1)-Dimensional System

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Starting from a quite universal formula, which is valid for some quite universal (2+1)-dimensional physical models, the interactions among different types of solitary waves like peakons, dromions, and compactons are investigated both analytically and graphically. Some novel and interesting features are revealed. The results show that the interactions for peakon-dromion, compacton-dromion, and peakon-compacton may be completely inelastic, not-completely elastic or completely elastic. – PACS numbers: 05.45.Yv, 02.30.Jr.

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