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Vibrations of thick domain walls: How to avoid no-go theorem

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The discrete part of the domain wall excitation spectrum, the profile of which is described by a kink solution with one or both power-law asymptotics, cannot contain levels other than the zero (translational) mode. Nevertheless, it can be shown that scenarios are quite possible when long-lived vibrations will be excited on the domain wall. This, in turn, can affect the processes of interaction of two or more domain walls.

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