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Domain wall thickness and deformations of the field model

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We consider the change in the asymptotic behavior of solutions of the type of flat domain walls in field-theoretic models with a real scalar field. We show that when the model is deformed by a bounded deforming function, the exponential asymptotics of the corresponding kink solutions remain exponential, while the power-law ones remain power-law. However, the parameters of these asymptotics, which are related to the wall thickness, can change.

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