ASYMPTOTIC STABILITY FOR SOME 1+1 DIMENSIONAL SCALAR FIELD MODELS

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In this talk, I shall discuss some new results concerning the asymptotic stability of kinks for general (1+1)-dimensional scalar field models of the form $\partial_t^2 \phi - \partial_x^2 \phi + W'(\phi) = 0$. I will concentrate efforts in explaining results for two important potentials W: the sine-Gordon case, and the ϕ^6–ϕ^8 scalar field models. These are joint works with M. A. Alejo and J. M. Palacios; and with M. Kowalczyk, Y. Martel, and H. Van Den Bosch, and can be found at arxiv:2003.09358 and arXiv:2008:01276.