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Decay of small perturbations on 1D scalar field equations

The purpose of this talk is to show that small perturbations of some one dimensional nonlinear scalar field equations must decay according to a particular regime depending on the parity of the initial data. We prove these results by using well-chosen Virial identities, a technique adapted to the natural energy space of the problem. This is joint work with Michal Kowalczyk and Yvan Martel.