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Title. Long time asymptotics for perturbations of the Toda lattice

Abstract. We consider one dimensional doubly-infinite Fermi-Pasta-Ulam (FPU) lattices obtained via perturbations of the completely integrable Toda interaction potential. We investigate, via numerical methods, the long time asymptotics of these nearly integrable systems. In particular, our aim is to relate the asymptotic resolution into solitary waves in the perturbed systems to the soliton resolution in the Toda system.