PANAYOTIS PANAYOTAROS, UNAM

Continuation of breathers in a finite discrete NLS lattice

We present some preliminary results on the continuation and bifurcations of breathers in the discrete NLS in a finite onedimensional lattice. We show numerical evidence for fold and pitchfork bifurcations as the intesite coupling increases and also discuss breathers that can be continued to normal modes of the weakly linear system.