

Structured Pseudospectra of Hamiltonian matrices

M. Karow

We consider the variation of the spectrum of Hamiltonian matrices under Hamiltonian perturbations. The first part of the talk deals with the associated structured pseudospectra. We show how to compute these sets and give some examples. In the second part we discuss the robustness of linear stability. In particular we determine the smallest norm of a perturbation that makes the perturbed Hamiltonian matrix unstable.