

**SOME COMPUTER ASSISTED PROOFS OF  
BIFURCATIONS FOR ODE AND MAPS**

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I will discuss some aspects of computer assisted proofs of bifurcations. Local ones: period doubling (for Henon map) or symmetry breaking for ODEs and PDEs (Kuramoto-Sivashinski PDE) and the global - the cocoon bifurcation in the Michelson system (this part is a joint work with D. Wilczak and H. Kokubu).