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They restrict themselves to the case where the following simplification is possible. Near the equilibrium or (quasi-) periodic solution under consideration the linear part allows approximation by a normalized Hamiltonian system with a torus symmetry. It is assumed that reduction by this symmetry leads to a system with one degree of freedom.

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They restrict themselves to the case where the following simplification is possible. Near the equilibrium or (quasi-) periodic solution under consideration the linear part allows approximation by a normalized Hamiltonian system with a torus symmetry. It is assumed that reduction by this symmetry leads to a system with one degree of freedom.

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Bifurcations in Hamiltonian systems with a reflecting symmetry Maikel Bosschaert and Heinz Hanßmann Mathematisch Instituut, Universiteit Utrecht Postbus 80010, 3508 TA Utrecht, The Netherlands

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Under appropriate transversality conditions on the nonlinear terms, see (2), the co-dimension of such bifurcations may be as low as three, cf. [8,9]. Hence, Theorem 1 implies that in Hamiltonian systems with five (or more) degrees of freedom the lower dimensional tori can persistently undergo these bifurcations.

### **Umbilical torus bifurcations in Hamiltonian systems**

Extended Abstract: Bifurcations in Hamiltonian Systems with Symmetry Jerrold E. Marsden Department of

Mathematics University of California, Berkeley, CA 94720 April 27, 1993 Introduction This is an extended abstract for the lecture of J. E. Marsden to be presented at the ENOC-93 conference, Hamburg, August, 1993.

### **Extended Abstract: Bifurcations in Hamiltonian Systems**

Keywords: Hamiltonian systems; coupled cells; bifurcations; nonlinear oscillators 37C80; 37G40; 34C14; 37K05 1. Introduction The study of coupled systems of differential equations, also known as coupled cell systems, received much attention recently with various theories and approaches being developed concurrently [1–5].

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### **HOPF BIFURCATIONS FOR NEAR-HAMILTONIAN SYSTEMS**

HAMILTONIAN BIFURCATIONS IN LOW-ENERGY ACCELERATING SYSTEMS G. CORSO and F. B. RIZZATO Instituto de Fisica - Universidade Federal do Rio Grande do Sul

### **Hamiltonian Bifurcations in Low-Energy Accelerating Systems**

Theorem 1 implies that in Hamiltonian systems with  $n \geq 2$  (or more) degrees of freedom the lower dimensional tori can persistently undergo these bifurcations. Let us briefly,

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