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Stepwise precession of the resonant swinging spring. (English) Zbl 1140.37350

SIAM J. Appl. Dyn. Syst. 1, No. 1, 44-64 (2002).

MSC:

37J15 Symmetries, invariants, invariant manifolds, momentum maps, reduction (MSC2010)

Cited in 14 Documents

37J35 Completely integrable finite-dimensional Hamiltonian systems, integration methods, integrability tests

70H06 Completely integrable systems and methods of integration for problems in Hamiltonian and Lagrangian mechanics

37N05 Dynamical systems in classical and celestial mechanics

37N15 Dynamical systems in solid mechanics

Keywords:

classical mechanics; variational principles; averaged Lagrangian; elastic pendulum; nonlinear resonance

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