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While Hamiltonian mechanics can be
used to describe simple systems such as
a bouncing ball, a pendulum or an
oscillating spring in which energy

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changes from kinetic to potential and back again over time, its strength is shown in more complex dynamic systems, such as planetary orbits in celestial mechanics.

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systems. And perturbation theory is one of the most widely used tools in theoretical physics. The fact that it is more successful in quantum mechanics than in celestial mechanics speaks more to the relative intrinsic difficulty of the theories than to the methods.

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Originally developed as a generalization of Newtonian mechanics, describing gravitationally driven motion from the simple pendulum to celestial mechanics, it also applies to such diverse areas of physics as quantum mechanics, quantum field theory, statistical mechanics, electromagnetism, and

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optics — in short, to any physical system for which dissipation is negligible.

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35J05, 35J10, 35K05, 35L05] 70Fxx -
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In Hamiltonian Dynamics and Celestial

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Mechanics, edited by D. G. Saari and Z. Xia, Contemporary Mathematics 198, American Mathematical Society, Providence, RI. Albouy, A. 2002 .
Lectures on the two-body problem.

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**The Geometry of Celestial
Mechanics**

“Hamiltonian systems, bifurcation theory

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and celestial mechanics all stem directly from Newton's laws of motion. These lines of research remain as relevant to science today as they were at their beginnings in the early 17th century," says Scott Dumas, a conference organizer and fellow UC math professor.

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Vortex dynamics is a branch of dynamical systems theory in much the

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same spirit as the N-body problem in celestial mechanics. Despite the fact that problems in celestial mechanics have historically been among the key driving forces in progress in dynamics, research in this area has fallen out of favor and celestial mechanics is no longer taught ...

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