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## Periodic and quasi-periodic orbits in Celestial Mechanics models with dissipation

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Periodic and quasi-periodic orbits are important objects that explain much of the dynamics in several Hamiltonian models in Celestial Mechanics. Adding a friction proportional to the velocity of the particles gives rise to conformally symplectic models. I will discuss existence and local dynamics close to quasi-periodic orbits and will mention efficient techniques to compute them and estimate their breakdown using periodic orbits and Sobolev norm methods.

*This is joint work with A. Celletti, R. de la Llave, and J.-Ll. Figueras.*

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