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Inclined coorbitals in the three-body problem

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In the three-body problem with two equal small masses, the Lagrange equilibrium is well-known. But what if we start inclining the small masses' orbits? We find numerical evidence of a family of quasi-periodic orbits emerging from the Lagrange equilibrium. We then draw links to the restricted problem, as well as the P12 family in the case of equal masses.

Astrophysics Field

Celestial mechanics, Dynamical systems, Solar System dynamics

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