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**Title:** *“Computer assisted proof of the KAM stability of the Eight”*

**Abstract.** We set up a methodology for computer assisted proofs of the existence and the KAM stability of an arbitrary periodic orbit for Hamiltonian systems. As an example of application in the 3-body problem we prove the KAM stability of the well-known figure eight orbit and two selected orbits of the so called family of rotating Eights.