

Extensions to Chen's Minimizing Equal Mass Parallelogram Solutions

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Abstract : In this paper, we study the extension of the minimizing equal mass parallelogram solutions which was derived by Chen in 2001. Chen's solution was minimizing for one quarter of the period $[0; T]$, where numerical integration had been used in his proof. This paper focuses on extending the minimization property to intervals of time $[0; 2T]$ and $[0; 4T]$.

Keywords : action, Hamiltonian, N-body, symmetry

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