

Eighth Mississippi State - UAB Conference on Differential Equations Computational Simulations, May 7–9, 2009, Department of Mathematics and Statistics, Mississippi State University, Mississippi State, MS, USA

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**LINEAR STABILITY OF SOME PERIODIC SIMULTANEOUS
BINARY COLLISION ORBITS IN THE FOUR-BODY PROBLEM**

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Recently Roberts developed a method for analyzing the linear stability of time-reversible periodic solutions of a Hamiltonian system. He used this method to determine the linear stability of the figure eight orbit in the equal mass three-body problem. We use Robert's method to determine the linear stability of some time-reversible periodic simultaneous binary collision orbits in the symmetric collinear four-body $1, m, m, 1$ problem, and also in the two dimensional symmetric equal mass four-body problem.

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