



8th Conference for African–American Researchers in the Mathematical Sciences
Princeton University, June 18–21, 2002

TUTORIAL: NEW PERIODIC ORBITS TO THE N-BODY PROBLEM

Robert J. Vanderbei

Princeton University

Department of Operations Research and Financial Engineering

rvdb@princeton.edu

By numerically solving the minimum action principle, we find several new periodic solutions to the equimass n -body problem. We will present animations and discuss stability issues.