Computer Simulation of N-Body Interactions CURTIS MCCULLY,
NATHANIEL TROUTMAN, Southern Nazarene University — We set up a model
universe consisting of N particles, whose interactions we can specify. With the
equations of motion and the Euler-Cromer method to predict the next time step, so
far we have simulated the dynamics of the present solar system on a millennial time
scale. A work in progress, we have taken steps to create a simulation of Saturnian
rings, solar system formation, and other systems.

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