1135-70-1885   **Ernesto Perez-Chavela*** (`ernesto.perez@itam.mx`), Rio Hondo 1, Col. Progreso Tizapan, 01080 Mexico, D.F., Mexico. *Euler and Lagrange relative equilibria in the curved 3–body problem.* Preliminary report.

The curved N–body problem is a generalization of the classical Newtonian N–body problem to spaces with constant curvature K, in this talk we will consider the two dimensional case. Using the cotangent potential as a generalization of the Newtonian one, we extend the classical Euler and Lagrange relative equilibria of celestial mechanics to spaces of constant curvature and study the stability of them. (Received September 25, 2017)