

1135-70-1887 **Abimael Bengochea*** (abimael.bengochea@itam.mx), Río Hondo 1, Álvaro Obregón, 04330
México, Mexico. *Exchange orbits in the problem of $1+2n$ bodies.*

The exchange orbits, aka horseshoe orbits, were studied for the first time by Brown, in the restricted three-body problem. In this talk we present symmetric periodic exchange orbits in the $1+2n$ body problem. We compute the corresponding families by solving a boundary value problem, and discuss common features of the families for some values of n . (Received September 25, 2017)