

The dynamics around the collinear point L_3 of the RTBP.

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Abstract

This talk aims towards the global description of the dynamics around the L_3 equilibrium point of the RTBP. The objects in its center manifold, including its normal behaviour, are computed by purely numerical procedures, in order to avoid the convergence restrictions of semi-analytical ones. Homoclinic phenomena is investigated. Small values of the mass parameter will be considered, in order to detect horseshoe-like motion.