

Equilibria of the symmetric collinear restricted four-body problem with radiation pressure

Abad, A.; Arribas, M; Elipe, A. and Palacios, M.

Grupo de Mecánica Espacial.

Universidad de Zaragoza, 50018 Zaragoza, Spain. *

Abstract

A restricted four-body problem with radiation pressure is considered. The three primaries are supposed in a collinear central configuration where both masses and both radiation forces of peripheral bodies are equal. After an adequate formulation, the problem is reduced to a tri-parametric one. A complete analysis of the position of equilibria and their stability in the space of parameters is performed.

*<http://gme.unizar.es>, abad@unizar.es, marribas@unizar.es, elipe@unizar.es, mpala@unizar.es,
<http://pcmap.unizar.es/> mpala