

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, March 4

2:00 – 3:00 PM

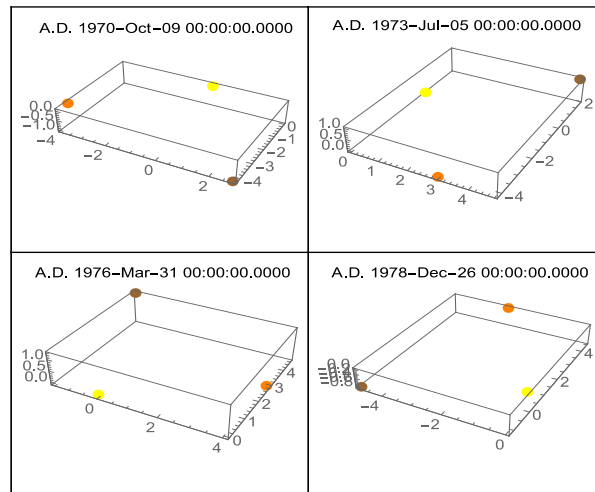
Maria Sanford, Room 101

EXISTENCE AND STABILITY OF LAGRANGIAN POINTS IN THE RELATIVISTIC RESTRICTED THREE-BODY PROBLEM

OSCAR PERDOMO

CENTRAL CONNECTICUT STATE UNIVERSITY

Abstract:



The image above shows the asteroid 624 Hektor (brown), along with Jupiter (Orange) and the Sun (Yellow). The unit of distance used in the image is the astronomical unit AU where 1 AU = 149597879700 meters. This asteroid is located in the Sun-Jupiter Lagrangian point L_4 .

In this talk we will explain the stability of the Lagrangian point L_4 from the Newtonian point of view as well as the relativistic point of view.

More details of the topics that we will be covering in the talk can be found at <http://arxiv.org/pdf/1601.00924.pdf>.

For further information:
gotchevi@ccsu.edu 860-832-2839
<http://www.math.ccsu.edu/gotchev/colloquium/>