

Mathematical Conversations

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A Trip to the Moon

Marian Gidea

Northeastern Illinois University; Member, School of Mathematics

Date & Time: Wed, 03/20/2013 - 18:00 - 19:30

Location: Dilworth Room

Rooms: Dilworth Room - Rear

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Chaos Theory has been applied to find low energy spacecraft trajectories beginning with the successful Japanese lunar mission Hiten in 1991. The orbit design of this mission was based on the empirical concept of a 'weak stability boundary', due to Belbruno. Another method to design low energy trajectories is based on hyperbolic invariant manifolds. We will argue that, in the case of the Earth-Moon system, the two methods essentially coincide.

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Tue, 04/10/2012 - 15:08

Wed, 03/13/2013 - 17:38

terms:

- [Facilities Schedule](#),
- [School of Mathematics](#)