



UNIVERSITY OF ROCHESTER

# Math/Physics Colloquium

## ABSTRACT

The process of random walk is described, in general, and how it can be applied in the three-body problem in a systematic manner. Several applications are considered. The main one that is a focus of this talk is on the evolution of horseshoe orbits and their transition to breakout motion in the restricted three-body problem. This is related to their use for an Earth impactor in a theory on the origin of the Moon.

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***Random Walk in the Three-Body  
Problem and Formation of the Moon***

Wednesday, October 22, 3:45 p.m.

Bausch & Lomb Hall

Room 106