



McMaster University



University of Toronto



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THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

DIRECTOR'S SEMINAR

SPEAKER:

SCOTT TREMAINE
Director, Canadian Institute for
Theoretical Astrophysics
University of Toronto

On the Topic:

"The Long-Term Stability of the Solar System"

The issue of the stability of the solar system is the mother of all problems in nonlinear dynamics. I will review our current understanding of this problem from the perspective of an astronomer, focusing on numerical studies of the long-term behaviour of orbits in the solar system and their implications for the past evolution and present configuration of the system. These studies have revealed many examples of chaotic behaviour in planet and satellite orbits and spins, only some of which are understood analytically.

Monday, January 18, 1993

4:00 pm, room 3018

at

The Fields Institute