

The Faculty of Mathematics and Computer Science
The Weizmann Institute of Science
announces the nineteenth

Chaim Leib Pekeris Memorial Lecture

to be delivered by

Professor Christiane Rousseau

University of Montreal

Sponsored by the Arthur and Rochelle Belfer Institute of Mathematics and Computer Science
at The Weizmann Institute of Science

The title:

What can we learn from the singularities?

on Wednesday, 21 March 2012, at 16:00
in the Dolfi and Lola Ebner Auditorium, on campus

A reception in honor of Prof. Rousseau will be held after the lecture

Abstract

The singularities of a dynamical system are usually its equilibrium points. They are heavily studied by the mathematicians, partly because there is a lack of global methods to study the dynamical systems far from their equilibrium points or periodic solutions. But there is much more to this. The singularities and periodic orbits organize the global dynamics. This statement will be illustrated with examples from other sciences, mainly celestial mechanics and the n-body problem.