

The Weizmann Institute of Science  
Faculty of Mathematics and Computer Science  
The Chaim Leib Pekeris Memorial Lecture

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

Christiane Rousseau  
University of Montreal

will speak on

**What can we learn from the singularities?**

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.