



**Wednesday, September 12, 2012**

**Jesús M. Sanz Serna (Universidad de Valladolid)**

## **Averaging old and new**

### **Abstract:**

I shall begin by reviewing the main ideas behind the method of averaging to study rapidly oscillatory dynamical systems. Then I shall present a new way of finding explicitly high-order averaged systems (joint work with A. Murua and P. Chartier). The new approach originated in the graph-theoretic/combinatorial techniques used nowadays to analyze numerical integrators and is also useful in the derivation of error estimates.



Univ. Carlos III de Madrid



Default Data

**Time** 10:45 to 11:45  
**Location** Room 2.2.D08  
Building Sabatini (2nd Floor)

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