

数学与系统科学研究院
计算数学所定期学术报告

报告人: **Dr. HaiJun Yu**

(*LSEC, Institute of Computational Mathematics and
Scientific/Engineering Computing, Academy of Mathematics and
Systems Science Chinese, Academy of Sciences*)

报告题目:

**Spectral Methods for the
FENE-dumbbell Fokker-Planck
equation**

报告时间: **2011 年 12 月 15 日 (周四)**

下午 16: 00~17: 00

(15: 30~16: 00 茶歇)

报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

In this talk, I will first introduce the Fokker-Planck equation modeling the dynamic of the complex fluids with FENE dumbbell like molecules. Then I will present a new spectral method solving the homogeneous system. This method has several virtues: 1) spectral accuracy, 2) linear computational cost 3) moments conserving .In the end of this talk I will discuss the spectral methods for the Navier-Stokes and Fokker-Planck coupled non-homogeneous system.

欢迎大家参加!