数学与系统科学研究院

计算数学所学术报告

报告人： **Dr. Zhongyuan Zhou**

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报告题目：

A moving−grid approach in phase space: A promising method for the study of dynamics of many−electron atomic and molecular systems

邀请人： 洪佳林研究员

报告时间： **2009 年 6 月 30 日(周二)**

上午 10:00—11:00

报告地点： **科技综合楼三层 301**

计算数学所报告厅

Abstract:

A moving-grid approach based on coupled coherent states and electron trajectories is developed for the study of dynamics of many-electron atomic and polyatomic molecular systems. In this approach, the initial state and trajectories are determined by using Monte Carlo method. And then the initial state propagates on the moving grids guided by the electron trajectories. As a demonstration, this approach is applied to the study of hydrogen molecule (H2).

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