

**数学与系统科学研究院**

**计算数学所学术报告**

**报告人: Prof. Jose-Maria Carazo**

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**报告题目:**

**Molecular Machines do move: Some  
image processing challenges in 3D  
Electron Microscopy**

**邀请人: 徐国良研究员**

**报告时间: 2009年1月14日(周三)**

**下午 3:00—4:00**

**报告地点: 科技综合楼三层 311**

**计算数学所报告厅**

## **Abstract:**

**I will review the basic concepts of a structural biology technique known as Three-dimensional Electron Microscopy, making special emphasis in their image processing aspects. I will then concentrate on the fact that molecular machines must "move" and change conformations dynamically in order to perform their biological role, a situation that presents many image processing challenges. Finally, I will present several of the image processing approaches we have developed at the Biocomputing Unit of the National Center for Biotechnology to address the issue of biological structure flexibility.**

**欢迎大家参加！**