

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Dexuan Xie**

( *Department of Mathematical Sciences,*

*University of Wisconsin, Milwaukee, Wisconsin, USA* )

报告题目:

**A Nonlocal Modified  
Poisson-Boltzmann Equation and  
Finite Element Solver for Computing  
Electrostatics of Biomolecules**

邀请人: 卢本卓 研究员

报告时间: 2016年6月21日(周二)

上午 10:00-11:00

报告地点: 数学院南楼六层

602 会议室

## **Abstract:**

**The nonlocal dielectric approach has been studied for more than forty years but only limited to water solvent until the recent work (SISC, 35(6):B1267-1284, 2013). As the development of this recent work, we proposed a nonlocal modified Poisson-Boltzmann equation (NMPBE) to incorporate nonlocal dielectric effects into the classic Poisson-Boltzmann equation (PBE). In this talk, I will introduce NMPBE and present an efficient finite element algorithm and a related software package for solving NMPBE.**

**欢迎大家参加！**