

数学与系统科学研究院

计算数学所学术报告

(系列讲座)

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系列讲座题目:

Continuum modeling of  
biomolecular systems (I, II, III)

报告题目: (讲座之一)

Continuum Modeling I:  
Poisson–Boltzmann electrostatics (I)  
--Boundary integral formulations for  
the PBE

报告时间: 2008年12月8日(周一)

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:**

**A brief introduction is given to some biophysical backgrounds, computational approaches, continuum electrostatics and the Poisson–Boltzmann model. Following this, I’ ll talk about boundary element methods for solution of the linearized PB equation. Different boundary integral forms are shown. In particular, for non–smooth mesh from the surface discretization, the geometry–corrected integral equations and the strong– and hyper–singular integrals are derived and discussed, which has not been completely accomplished and implemented.**

**欢迎大家参加！**