

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Liwei Xu**

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报告题目:

**Modeling and computation for the
electromagnetic waves in metallic
nanostructures**

邀请人: 刘歆 副研究员

报告时间: **2015 年 8 月 27 日 (周四)**

下午 15:00~16:00

报告地点: **科技综合楼三层**

311 报告厅

Abstract:

In this talk, we introduce several hydrodynamic models describing the propagation of electromagnetic waves in metamaterial in nano scale. Essential properties of these models will be discussed. These models could be employed for the simulation of the second harmonic generation which is a nonlinear optical phenomenon and has a wide application in physics, engineering and material sciences. A discontinuous Galerkin method has been designed for the solution of one of the models, and numerical results will be presented to validate the model and the numerical scheme. This is a joint work with Prof. Lijun Jiang at HKU and Mr. Maohui Lv at CQU.

欢迎大家参加！