

数学与系统科学研究院

计算数学所学术报告

报告人: **Assistant Prof. Guanghui Hu**

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报告题目:

**On adaptive simulation of  
Kohn-Sham DFT and TDDFT**

邀请人: 许现民 副研究员

报告时间: **2017年6月15日(周四)**

**下午 16:00-17:00**

报告地点: 科技综合楼三层

**311 报告厅**

## **Abstract:**

**High harmonic generation (HHG) plays an important role in the emerging attosecond physics, and has applications on developing novel techniques such as imaging of molecular orbitals. There are several challenges on numerical study of HHG. In this talk, HHG as well as theoretical and numerical challenges on its study will be introduced. Then a numerical framework of adaptive finite element solutions of Kohn-Sham and time-dependent Kohn-Sham equations for HHG simulations will be described in detail. Numerical results will show the effectiveness of the proposed method.**

**欢迎大家参加！**