# 数学与系统科学研究院

# 计算数学所学术报告

**报告人：** 蔡勇勇 教授

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**报告题目：**

**Recent advance on numerical methods for oscillatory dispersive PDEs**

**邀请人：** 于海军 副研究员

**报告时间：** 2020 年 12 月 15 日（周二）

下午 **14:00-15:00**

**报告地点：** 科技综合楼

**311 教室**

## Abstract：

Highly oscillatory dispersive PDEs, such as Klein-Gordon equation in the non-relativistic limit, Dirac equation in the non-relativistic limit, Schrodinger equation in the semi-classical limit, arise from many different areas, e.g. computational chemistry, plasma physics, quantum mechanics. These oscillatory PDEs usually exhibit solutions with high frequency waves in time and/or in space, and are generally computational expensive. In this talk, we report some recent advances on the numerical methods and analysis for some typical highly oscillatory dispersive PDEs.

欢迎大家参加！