

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Guizhen Lu**

( *School of Information and Communication Engineering,  
Communication University of China* )

报告题目:

**Surface Plasmon Polarization and  
Scattering Optical Near Field  
Microscopy**

邀请人: 曹礼群 研究员

报告时间: **2019 年 7 月 19 日 (周五)**

**下午 15:00-16:00**

报告地点: 数学院南楼七层

**702 教室**

## **Abstract:**

**Surface plasmon polarization (SPP) is a phenomenon between the metal and dielectric medium in optics frequency, which generate the surface wave. The surface wave can limit the electromagnetic wave on the interface, which can be used to develop the surface optics device and optics circuit. The optics circuit can help to improve the information processing speed. Scattering optical near field microscopy (SNOM) use the near field scattering to realize the sub wavelength image, which can help to observe the Nano material structure. The study of the near field scattering for various structure can help to understand the microstructure in nanomaterial's and biotechnology.**

**欢迎大家参加！**