数学与系统科学研究院

计算数学所学术报告

报告人：　**Prof. Qiang Ren**

（ 北京航空航天大学电子信息工程学院 ）

报告题目：

Anisotorpic Subdomain Level Discontinuous Galerkin Time Domain (SL DGTD) Method and Its Applications

邀请人：　崔涛 副研究员

报告时间：**2018** 年 **7** 月 **23** 日（周一）

上午 **10:00-11:00**

报告地点：　科技综合楼三层

311 报告厅

Abstract:

In this talk, some recent progress in the subdomain level discontinuous Galerkin time domain (DGTD) method will be discussed. It uses curl-conforming and divergence-conforming basis functions respectively to discretize the electrical field density (E) and magnetic flux density (B) to realize a high efficiency approximation of the discrete Hodge. Domain decomposition (DD) is achieved via a modified Riemann solver. Multiple time integration approaches, including explicit, implicit, and hybrid schemes, have been proposed to simulate common, electrical small and multiscale cases, respectively. It has also been extended to model the nano-architectures after incorporating the dispersive media.

欢迎大家参加！