

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**Characterization and Evaluation of
Thermal Protection Composites**

邀请人: 曹礼群 研究员

报告时间: 2017 年 4 月 20 日 (周四)

下午 15:00-16:30

报告地点: 数学院南楼七层

714 教室

Abstract:

During the reentry process of long-time near-space hypersonic aircraft, high temperature harsh environment applied on the aircraft surface will bring severe challenges for thermal protection composite materials and structures. Structure design for thermal protection system and heat becomes one of key techniques for ensuring the ultimate performance integrity of aerospace vehicles. To meet the performance requirements of thermal protection composite materials and structures within different components of aerospace vehicles, physics-materials-chemistry interdisciplinary theories and methods are employed for investigating the ablation mechanism, high temperature mechanical properties of thermal protection composite materials and the evolution rules of mechanical properties with temperature. The improvement of characterization and assessment methods of performances for ablative and non-ablative materials and structures can provide technical supports for the design and manufacturing of defence weapons.

欢迎大家参加！