

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:

**From drag-free GOCE to drag-free formation: control challenges**

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报告时间: 2015 年 8 月 17 日 (周一)

上午 9:30

报告地点: 晨兴中心

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## **Abstract:**

**The talk outlines orbit and formation control of a long-distance ( $>100$  km) two-satellite formation for the monitoring of the Earth gravity. Control design is based on a new orbit and formation dynamics, which are compared with the classical Hill–Clohessy–Wiltshire equations. The new dynamic equations are the first step in building the embedded model, which is the core of the control unit. Embedded model derivation is explained only for the orbit control, and briefly mentioned for the formation control. Simulated results are provided.**

**欢迎大家参加！**