数学与系统科学研究院

计算数学所学术报告

报告人： Prof. Ian H. Sloan

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报告题目：

Approximating and Designing on the Sphere

邀请人： 石钟慈院士

报告时间： 2008 年 10 月 21 日(周二)

下午 4:00—5:00

报告地点： 科技综合楼三层 311

计算数学所报告厅

Abstract:

The sphere is an important setting for applied mathematics, with the applications ranging from geodesy through climate change to scattering in the ionosphere. Yet there are many surprising gaps in our understanding of mathematics on the sphere, and even simple questions often go unanswered.

Many questions revolve around finding good distributions of points on the sphere. Questions of this kind arise in coding theory, numerical integration, and minimal energy configurations.

This talk, intended for non-specialists, reviews recent work on interpolation, approximation and numerical integration on the sphere S2, and related questions of how to choose `good' point distributions on the sphere. Special focus will be on extremal systems and spherical designs.

欢迎大家参加！