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：

Construction of Subdivision Geometric PDE Surfaces

邀请人：　徐国良研究员

报告时间：**2010** 年 **7** 月 **15** 日（周四）

下午 **2：00**

报告地点：　科技综合楼四层 **401**

计算数学所教室

Abstract:

Subdivision technology has always been active in computer aided design since its invention. The flexibility and high quality of subdivision surfaces makes them a powerful tool in geometry modeling and surface designing. We use the mean curvature flow(a second-order geometric flow), surface diffusion flow, Willmore flow and quasi-surface diffusion flow(forth-order geometric flows) to construct minimal Loop(Catmull-Clark's)subdivision surfaces with specified B-spline boundary curves and subdivision surfaces with specified G^1 boundary conditions. These flows are solved by a finite element method where the finite element space is spanned by the limit functions of the modified Loop(Catmull-Clark's) subdivision scheme.

欢迎大家参加！