

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Bin Han**

(**Department of Mathematical and
Statistical Sciences, University of
Alberta, Edmonton, Alberta, Canada**)

报告题目: **Wavelets, Framelets, and
Refinable Functions**

邀请人: 许志强副研究员

报告时间: **2010年7月23日(周五)**

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:

In this talk, we first discuss some basic background on wavelet analysis and its applications. Then we shall talk about some recent developments on framelets and their connections to refinable functions. We shall see that refinable functions have connections to many aspects of wavelet analysis and particularly play a central role for the computational aspects of wavelet analysis. For example, the widely used B-splines and box splines in approximation theory are refinable functions. The Hermite cubic spline which is often used in numerical algorithms is another example of refinable function vectors with interpolation property. In this talk, we shall present some results on the investigation of refinable functions using subdivision schemes and cascade algorithms in function spaces. Some open problems will be mentioned.

欢迎大家参加!