

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Liqun Qi**

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报告题目:

**The Laplacian Eigenvalues of a
Uniform Hypergraph**

邀请人: 中科院数学院优化与应用研究中心

报告时间: **2013 年 6 月 20 日 (周四)**

上午 10:00-11:00

报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

Recently, there are good progresses on the Laplacian eigenvalues of a uniform hypergraph. Qi proposed a simple and natural definition for the Laplacian and the signless Laplacian tensors of a uniform hypergraph. Hu and Qi showed that the eigenvectors of the zero Laplacian and signless Laplacian eigenvalues of a uniform hypergraph are closely related to some configured components of that hypergraph. Hu, Qi and Xie studied the lower and upper bounds of the largest Laplacian and signless Laplacian H-eigenvalues, generalized some classical results in spectral graph theory to spectral hypergraph theory. Hu, Qi and Shao studied Laplacian eigenvalues of some special hypergraphs, including hyperstars, hyperpaths, hypercycles, sunflowers.

欢迎大家参加!