数学与系统科学研究院

计算数学所学术报告

报告人：Prof. Qingzhi Yang

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报告题目：

Computing the generalized eigenvalues of weakly symmetric tensors

邀请人： 许志强 研究员

报告时间：2016 年 7 月 15 日（周五）

下午 16:00-17:00

报告地点： 科技综合楼三层

311 报告厅

Abstract：

In the recent years, several methods for solving the Z-eigenvalues and generalized eigenvalues of tensors have been given. However, the convergence of these methods is only assured for the symmetric tensors. In this talk, we will first recall some notions concerning tensors' eigenvalues, then analyze an algorithm by Kolda et al for computing the generalized eigenvalues from the view of optimization method. Based on this argument, we propose two Gradient Projection methods for computing the generalized eigenvalues and the convergence of the algorithms is established for the weakly symmetric tensors. Some competitive numerical results are reported at the end of this talk.

欢迎大家参加！