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:

On Cones of Nonnegative Quartic Forms

邀请人： 刘歆 博士

报告时间: 2014 年 8 月 31 日（周日）

下午 **14:30-15:30**

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 study the class of nonnegative polynomials. Six fundamentally important convex cones of nonnegative quartic functions will be presented. It turns out that these convex cones coagulate into a chain in decreasing order. The complexity status of these cones is sorted out as well. We further consider the polynomial sized representation of a very specific nonnegative polynomial, and this representation enables us to address an open question asserting that the computation of the matrix 2$\rightarrow$4 norm is NP-hard in general.

欢迎大家参加！