

数学与系统科学研究院

计算数学所学术报告

(定期学术报告)

报告人: Prof. Jin-yun Yuan

(Federal University of Parana, Brazil)

报告题目:

A Sharp Upper Bound of the 1-
Norm of the Inverse of Special Lower
Triangular Toeplitz Matrices

邀请人: 袁亚湘研究员

报告时间: 2009年1月8日(周四)

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 introduce the necessity of the estimation of the upper bound of 1–norm of the inverse of some special lower triangular Toeplitz matrices by some applications, specially from numerical methods for Volterra equations. Then we give some simple survey on this issue. Finally we give the sharp upper bound for the problem with some conditions for some special classes of the lower triangular Teoplitz matrix such as Abel's matrix. This bound was a conjecture for more than 35 years. We also answer the Brunner's question.

欢迎大家参加！