

数学与系统科学研究院

计算数学所学术报告

报告人: **A.P. Jianyu Pan**

(*Department of Mathematics, East China Normal University*)

报告题目:

**A New Preconditioner for the
Weighted Toeplitz Least Square
Problem**

邀请人: 白中治研究员

报告时间: **2011 年 8 月 6 日 (周六)**

上午 9: 30-10: 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 will consider the preconditioned iterative method for the weighted Toeplitz least squares problems which arise from nonlinear image restoration. Our new preconditioner is based on the Hermitian and skew-Hermitian splitting of the coefficient matrix. We will show the spectrum properties of the preconditioned system, as well as the optimal choice of the parameter involved in the preconditioner. Numerical experiments show that the new preconditioner is robust and efficient.

欢迎大家参加!