数学与系统科学研究院

计算数学所定期学术报告

报告人：Prof. Zhong-Zhi Bai

（ *Institute of Computational Mathematics and Scientific/Engineering Computing, CAS* ）

报告题目：

Chebyshev and the Chebyshev Semi-iteration Methods

报告时间：2017 年 9 月 27 日（周四）

下午 16:00-17:00

报告地点： 思源楼一层

报告厅

Abstract：

We briefly review the biography of Pafnuty L. Chebyshev (1821-1894), a great Russian mathematician. We then introduce the Chebyshev polynomials and their optimal approximation properties. Finally, we describe the Chebyshev semi-iteration technique for accelerating the convergence rates of stationary matrix splitting iteration methods used to solve large sparse systems of linear equations. The motivations, mechanisms and theory related to the Chebyshev semi-iteration methods are also explained in detail.

欢迎大家参加！