

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Pengzhan Jin**

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报告题目:

**Optimal unit triangular factorization  
of symplectic matrices**

邀请人: 唐贻发 研究员

报告时间: 2021 年 8 月 28 日 (周六)

上午 10:00-11:00

报告地点: 数学院南楼

702 教室

## **Abstract:**

**We prove that any symplectic matrix can be factored into no more than 5 unit triangular symplectic matrices, moreover, 5 is the optimal number. This result improves the existing triangular factorization of symplectic matrices which gives proof of 9 blocks. We also show the corresponding improved conclusions for structured subsets of symplectic matrices.**

**欢迎大家参加！**