

# 数学学院 学术交流展

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MATHEMATICS

ACADEMIC EXCHANGE EXHIBITION OF MATHEMATICS COLLEGE

## Combinatorial statistics: a common theme and a few examples

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【简介】丁剑，北京大学讲习教授，主要研究概率论，特别是和统计物理以及理论计算机交叉。他还对“面向应用”问题产生的概率问题有着广泛的兴趣。相关成果发表在Acta Math., Ann. Math., Invent. Math, CMP, CPAM, AOP, PTRF等数学和概率顶级学术期刊上，受邀在2022年国际数学家大会(ICM-2022)做45分钟报告。在加入北大之前，丁剑历任芝加哥大学统计系助理教授、芝加哥大学统计系终身副教授、宾西法尼亚大学统计系终身副教授，2021年7月至2021年12月任宾西法尼亚大学Gilbert Helman讲席教授，统计与数据科学系教授。丁教授获得了2015年斯隆奖和2017年Rollo Davidson奖。他获得了第九届世界华人数学家大会(ICCM)数学金奖。他是国际数学顶级期刊JAMS、CMP、AOP和AAP的联合编辑。

【摘要】In this talk, I will overview the general flavor for the topic of “combinatorial statistics”, and I will describe some recent progress on shotgun assembling problems as well as random graph matching problems. Through these examples, I wish to convey the flavor of the topic of combinatorial statistics, and why it calls for joint efforts from statisticians, probabilists, computer scientists and researchers from applied sciences. The talk is based on recent joint works in various combinations with undergraduate students Hang Du, Haoyu Liu and Zhangsong Li, as well as graduate students Shuyang Gong, Heng Ma and Yiyang Jiang from Peking University.

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