

國立陽明交通大學應用數學系

學術演講公告

主講人：趙庭偉博士

講題：Tight Bound on Joints Problem and Partial
Shadow Problem

時間：113 年 6 月 14 日(星期五) 上午 11:00 –12:00

地點：(光復校區) 科學一館 223 室

Abstract

Given a set of lines in R^d , a joint is a point contained in d linearly independent lines. Guth and Katz showed that N lines can determine at most $O(N^{\{3/2\}})$ joints in R^3 via the polynomial method.

Yu and I proved a tight bound on this problem, which also solves a conjecture proposed by Bollobas and Eccles on the partial shadow problem. It is surprising to us that the only known proof to this purely extremal graph theoretic problem uses incidence geometry and the polynomial method.

敬請公告 歡迎參加

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