For Favour of Posting

Department of Mathematics
The Chinese University of Hong Kong

數學系
香港中文大學

Phone: (852) 3943 7988 • Fax: (852) 2603 5154 • Email: dept@math.cuhk.edu.hk (Math. Dept.)
Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Seminar

Polynomial method in multilinear analysis

Mr. Ruixiang ZHANG
Princeton University

Abstract

We will move on to the more analytic side and talk about Guth's proof of the endpoint multilinear Kakeya inequality. We will continue to generalize it to the endpoint perturbed Brascamp-Lieb inequality. We then discuss the unusual role of algebraic topology and integral geometry in the proofs of the above theorems. The proof of the endpoint perturbed Brascamp-Lieb inequality is also an example where the simultaneous interaction of multiple algebraic hypersurfaces comes into play.

Date :	December 23, 2016 (Friday)
Time :	2:00pm – 3:30pm
Venue :	Room 222, Lady Shaw Building, The Chinese University of Hong Kong

All are Welcome