



复旦大学数学科学学院 数学综合报告会

报告题目: On the Waring problem for polynomial rings

报告人: Boris Shapiro (Stockholm University)

时间: 2025-04-16 星期三 15:00-16:00

地点: 光华楼东主楼 2201

报告摘要:

In case of the ring of polynomials with complex coefficients an analog of the classical number-theoretical Waring problem asks the following. Given the positive integers k, d, n , find/estimate how many homogeneous polynomials of degree d in n variables are needed to be able to present any/almost any homogeneous polynomial of degree kd in n variables as the sum of their k -th powers.

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