

CHARACTERISATIONS OF FRACTAL DIMENSIONS

Speaker: Shuqin Zhang
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Time: Thu, May 21st, 10:30 - 11:00

Venue: Room 106, SCMS

Abstract:

This talk focuses on the characterisations of various fractal dimensions via measure theory. We will first present Frostman and Fourier characterisations of a range of fractal dimensions. In addition, we will give several equivalent definitions for intermediate dimensions and box dimension profiles, and employ intermediate dimensions to estimate box dimension profiles. This talk is based on a joint work with Kenneth J. Falconer and two ongoing projects.