

高等教育深耕計畫-引領永續未來創新學院

【前瞻領域學程】系列講座

講者：李兵教授(華南理工大學數學學院)

講題：Hausdorff and Fourier dimensions of random covering sets

時間：2019年5月15日(星期三)下午2：30~3：30

地點：應數系多媒體教室(理學院408室)

摘要

The Dvoretzky random covering problem is to find the conditions for which almost surely every point on the circle is covered infinitely many times by a sequence of random intervals with decreasing lengths and random initial points (an i.i.d. sequence of random variables uniformly distributed on the circle). It has drawn a lot of interest of many mathematicians for the last decades and the sizes of the random covering sets have been widely studied. The Hausdorff and Fourier dimensions, hitting probabilities of random covering sets will be given in the talk. The covering setting also was generalized to many different cases, for example, covering the torus with rectangles or open sets, or even just Lebesgue measure sets, or balls with singular distributions, some recent related results will be surveyed.

主辦單位：國立高雄大學統計學研究所、應用數學系

協辦單位：國立高雄大學巨量資料研究中心

高大交通資訊：<http://intro.nuk.edu.tw/nuk/map01.htm>