Research

Colloquium

Asymptotical Hausdorff Dimensions of Cantor Systems

主講人：蔣雲平 特聘教授
Queens College & Graduate Center,
City University of New York

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地　點：應用數學系多媒體教室（理 408 室）

摘　要：

I will discuss the geometry of a Cantor system associated with an asymptotically non-hyperbolic family of one-dimensional dynamical systems. Such a family arises in dynamical systems as hyperbolicity is created. I will discuss the bridge geometry and the gap geometry. Furthermore, I will discuss the asymptotical Hausdorff dimension of the family of Cantor sets obtained from a Cantor system and show that the asymptotical value is one minus γ-root of the size of the leading gap.