

CANTOR AND SIERPINSKI, JULIA AND FATOU: CRAZY TOPOLOGY IN COMPLEX DYNAMICS

Speaker: Prof. Robert L. Devaney

Boston University

Time: 10:00 - 11:00 a.m., Tuesday, May 9th, 2017 Venue: Room 2201, East Guanghua Tower (Main), Fudan University

Abstract:

In this talk, we shall describe some of the rich topological structures that arise as Julia sets of certain complex functions including the exponential and rational maps. These objects include Cantorbouquets, indecomposable continua, and Sierpinski curves.

 $b_i - (\sum_{j=1}^{i-1} a_{ij} x_j^{(k)} + \sum_{j=i+1}^{k} a_{ij}$

 $\Delta y_{i} = \int y \frac{a_{ij}}{dx} - (\sum_{j=1}^{i-1} a_{ij}x_{j}^{(k)} + \sum_{j=i+1}^{n} a_{ij}x_{j}^{(k)} + \sum_{j=i+$ Shanghai Center for Mathematical Sciences 22F East Guanghua Tower, No.220 Handan Road, Shanghai, China Tel: 55665643 Fax: 65642190 Postcode: 200433 Email: scms@fudan.edu.cn