The Department of Mathematical Sciences Welcomes

2021 Taft Lecturer

Dr. Mario Bonk

Professor and Chair

Department of Mathematics

University of California, Los Angeles

Friday, November 12th, 2021

Rec Center 3200

3:40-4:40 pm

The Beauty of Fractals

A fractal is a geometric object that is self-similar on different scales. In nature there are many phenomena that exhibit fractal features such as lightning bolts, growth patterns of plants and crystals, snowflakes, or coast lines and river networks. In mathematics fractal objects often arise in the study of dynamical systems as Julia sets of rational maps, limits sets of Kleinian groups, or attractors of iterated function systems. Another mathematical source of fractals are probabilistic models such as the continuum random tree. In my talk. I will give an introduction to this circle of ideas. The presentation will be accessible to a general audience.

Refreshments will be served 3:00– 3:30pm in the Math Faculty & Graduate Student Lounge Room 4118 French Hall West