Stony Brook University
The Graduate School

Doctoral Defense Announcement

Abstract

Quasisymmetries of the Feigenbaum Julia set and transcendental

dynamics By

Timothy Alland

We give an explicit description of the group of topologically extendable quasisymmetric self-maps of the Feigenbaum quadratic Julia set. We also describe the transcendental dynamics of the Feigenbaum renormalization fixed point whose structure plays an important role in restricting what maps can belong to the group of quasisymmetries.

Date: July 21, 2023   **Program**: Mathematics
Time: 2:30pm   **Dissertation Advisor**: Mikhail Lyubich
Place: Math Tower, Room 5-127