

Monodromy in Complex Dynamics

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Abstract

In this talk I will give an introduction to complex dynamics and discuss the monodromy problem in polynomial parameter space. This relates the topology of the parameter space of degree d polynomials to the automorphisms of the space of one-sided infinite strings on d symbols. I will discuss how this was proven and, time permitting, discuss the analogous problem in H' parameter space, computational work to understand the higher dimensional problem, and interesting phenomena arising in the course of experimentation.

Time: 12 p.m, 29th June 2022

Location: B3.02

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