DynamIST

On Hausdorff dimension of Julia sets via a computer-assisted proof

Artem Dudko

IMPAN

Host: Kaloshin Group

Roughly speaking, Julia set of a holomorphic map is the set of points near which the iterations of this map behave chaotically. A natural question is how large this set can be. One of ways to measure the size of such set is using Hausdorff (and other types of) dimension. In this talk I will present two approaches for studying this quantity for certain classes of maps and will describe computer assisted results obtained using these approaches. The approaches are inspired by Avila-Lyubich's and McMullen's works. The results are from a joint paper with Scott Sutherland, and a joint paper with Igors Gorbovickis and Warwick Tucker.

Tuesday, October 25, 2022 02:00pm - 03:00pm

Heinzel Seminar Room / Office Bldg West (I21.EG.101)

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.