NUS
National University
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MA4198 PROJECT PROPOSAL (PROJECT CUM SEMINAR GROUP)

SUPERVISOR'S INFO

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PROJECT ID: PS2410-06

TITLE

Julia sets and Mandelbrot set

BRIEF DESCRIPTION OF PROJECT

The goal would be to go through the book "The Iteration of Rational Functions" by Alan Beardon. This is a basic book intended to introduce the students to the dynamical systems defined by complex polynomials, including the beauty of Julia sets and Mandelbrot set. Interested students can have the opportunity branch out into specific subtopics or related material.

EXPECTATION/S

Read and understand together as a group the book "The Iteration of Rational Functions" by Alan Beardon, and to be able to explain the main ideas to each other and to the supervisor.

PREREQUISITE/S (at level 3000 or below, with at most one course at level 3000)

Basic complex analysis is good enough

READING REFERENCE/S

"The Iteration of Rational Functions" by Alan Beardon.