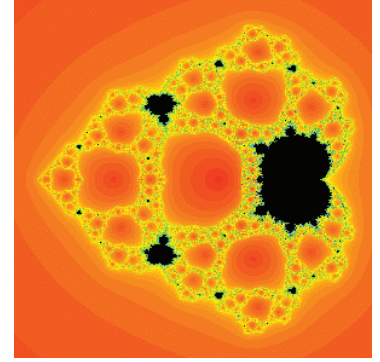
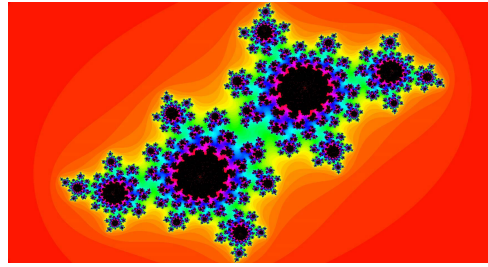
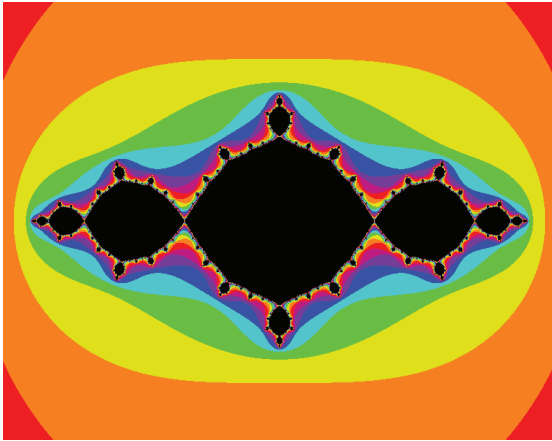


Swarthmore College
Department of Mathematics and Statistics
COLLOQUIUM



Lorelei Koss
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Dickinson College



Iterating Complex Functions

Abstract: Perhaps you have seen the technique of iteration in your calculus class when using Newton's method to approximate roots of equations. In 1879, Arthur Cayley posed a question about extending Newton's Method to complex functions. In this talk, we discuss Cayley's idea and its generalization to iterating complex functions. By the end, we will see how iteration gives rise to beautiful and complicated objects called Julia sets.

Tuesday, October 24th

Science Center 199

Refreshments 4:15 ~ Talk 4:30

