## FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

## 

By

## JOHN HENRY BERGSCHNEIDER

A Dissertation submitted to the Department of Mathematics in partial fulfillment of the requirements for the degree of Doctor of Philosophy

2020

John Henry Bergschneider defended this dissertation on July 6, 2020. The members of the supervisory committee were:	
	Wolfgang Heil
	Professor Directing Dissertation
	James "Jack" Justus
	University Representative
	Philip Bowers
	Committee Member
	Samuel Ballas
	Committee Member
The Graduate School has varified and	d approved the above named committee members, and contified
	d approved the above-named committee members, and certifies ved in accordance with university requirements.