FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

INSTABILITIES IN NONLINEAR SCHRÖDINGER EQUATIONS: CLASSICAL AND NEURAL NETWORK APPROACHES

By

ABDULLAH AURKO

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	Ziad H. Musslimani Professor Co-Directing Dissertation
	Justin T. Cole Professor Co-Directing Dissertation
	Peter Hoeflich University Representative
	Giray Ökten Committee Member
	Kyounghee Kim Committee Member

The Graduate School has verified and approved the above-named committee members, and certifies that the dissertation has been approved in accordance with university requirements.