FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

PROBING PHASE TRANSITIONS IN METAL-ORGANIC FRAMEWORK MULTIFERROICS USING SOLID-STATE NMR

By

SANATH KUMAR RAMAKRISHNA

A Dissertation submitted to the Department of Chemistry and Biochemistry in partial fulfillment of the requirements for the degree of Doctor of Philosophy Sanath Ramakrishna defended this dissertation on November 12, 2021.

The members of the supervisory committee were:

Wei Yang

Professor Directing Dissertation

Irinel Chiorescu

University Representative

Arneil Reyes

Committee Member

Michael Shatruk

Committee Member

Eugene DePrince

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.