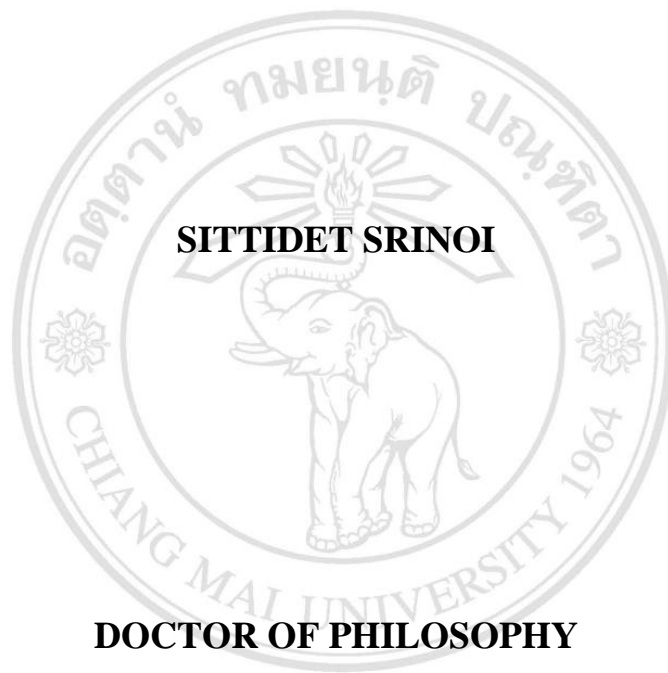


**SIMULATION OF HYSTERESIS BEHAVIOR IN
FERROELECTRIC MATERIALS WITH
PARTIAL NON-POLARIZABLE
STRUCTURE**



**DOCTOR OF PHILOSOPHY
IN PHYSICS**

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**GRADUATE SCHOOOL
CHIANG MAI UNIVERSITY
OCTOBER 2014**

**SIMULATION OF HYSTERESIS BEHAVIOR IN
FERROELECTRIC MATERIALS WITH
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**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
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SITTIDET SRINOI

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
IN PHYSICS

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