

**HYDROTHERMAL GROWTH AND CHARATERIZATION  
OF TiO<sub>2</sub> NANORODS ON FLUORINE-DOPED TIN  
OXIDE GLASS SUBSTRATE ASSISTED  
BY SEEDING LAYER**

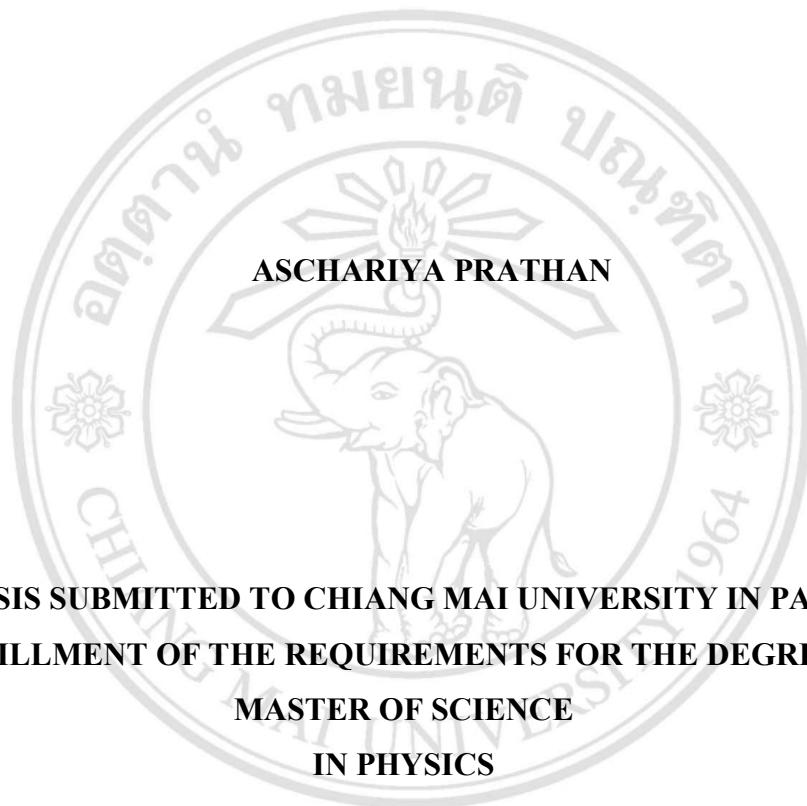


**MASTER OF SCIENCE  
IN PHYSICS**

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**GRADUATE SCHOOL  
CHIANGMAI UNIVERSITY  
MAY 2018**

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TiO<sub>2</sub> NANORODS ON FLUORINE-DOPED TIN OXIDE  
GLASS SUBSTRATE ASSISTED  
BY SEEDING LAYER**



**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN PHYSICS**

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ASCHARIYA PRATHAN

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

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15 May 2018

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***To***

***Applied Physics Research Laboratory (APRL)***



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