



UNIVERSITY OF STELLENBOSCH

This is to certify that whereas

ZEPHANIA BIRECH

*had complied with all the conditions prescribed
in the Act, Statute and Rules of the University,
the degree*

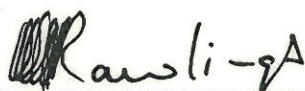
**DOCTOR OF PHILOSOPHY
(PhD)
(Physics)**

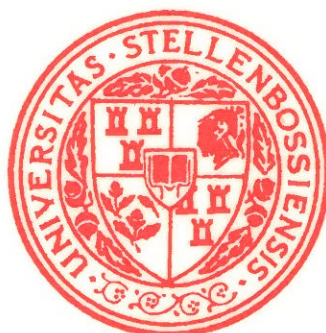
on a dissertation entitled

**Exciton dynamics in tetracene single crystals studied using femtosecond
laser spectroscopy**

*with all the rights and privileges pertaining thereto was conferred on
him at a congregation of the University in December 2012.*


RECTOR AND VICE CHANCELLOR


DEAN




REGISTRAR
7 December 2012