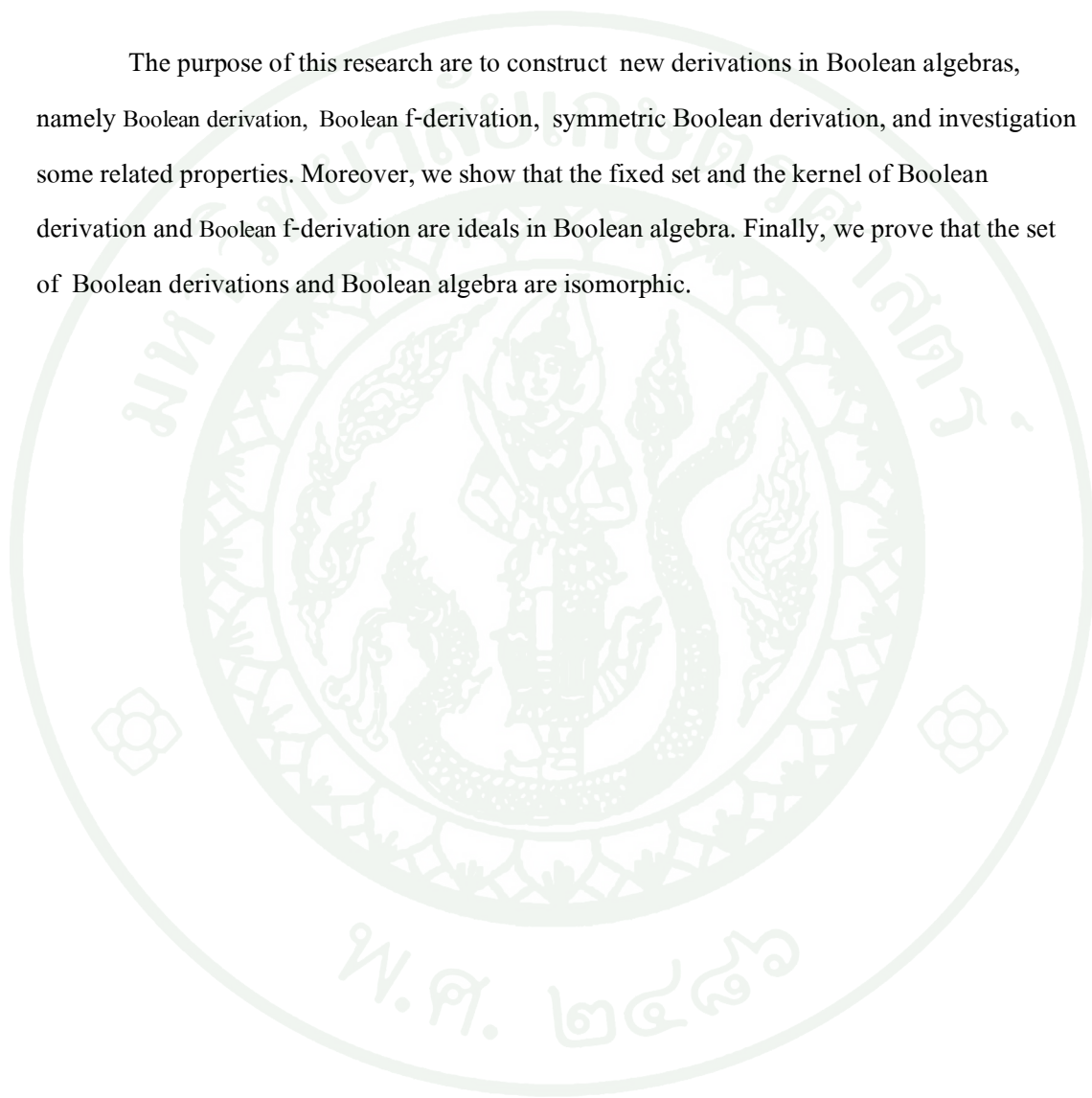


Thanakorn Bunphan 2013: Study of Derivations on Boolean Algebras. Master of Science (Mathematics), Major Field: Mathematics, Department of Mathematics. Thesis Advisor: Associate Professor Utsanee Leerawat, Ph.D. 107 pages.

The purpose of this research are to construct new derivations in Boolean algebras, namely Boolean derivation, Boolean f-derivation, symmetric Boolean derivation, and investigation some related properties. Moreover, we show that the fixed set and the kernel of Boolean derivation and Boolean f-derivation are ideals in Boolean algebra. Finally, we prove that the set of Boolean derivations and Boolean algebra are isomorphic.



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