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Rahim G Karimpour* (rkarimp@siue.edu), Department of Mathematics, Southern Illinois University Edwardsville, Edwardsville, IL 62026-1653. *Non-Archimedean Topologies as Boolean Rings and Their Maximal Ideals.*

A Topology T on a set X is said to be non-Archimedean Topology if it has a basis B such that if U and V are two members of B , then either U and V are disjoint or one is a subset of the other. In this paper, we investigate two operations that make this topology to become a Boolean ring. The relation between maximal ideals of such ring and ultrafilters in T as non-Archimedean topology have been investigated. Finally this relation has been characterized. (Received September 20, 2005)