ON MAXIMAL AND MINIMAL CLOPEN SETS

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Abstract. In this paper, we introduce the notions of maximal and minimal clopen sets, and then we obtain some properties of them. The notions of maximal and minimal clopen sets are independent to the notions of maximal and minimal open and closed sets. We see that the existence of a maximal clopen set in a topological space not only assures the disconnectedness of the space but also ensures the existence of a minimal clopen set in that topological space, and vice versa. Also maximal and minimal clopen sets in a topological space appear in pairs.

References


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