



Ω -BOUNDEDNESS IN L -TOPOLOGICAL SPACE

Najah A. Alsaeidi

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Abstract

In this paper, we introduce and study the notion of Ω -boundedness on arbitrary L -sets in L -topological spaces by using the notion of upper limit of Ω -nets. Several characterizations of Ω -boundedness in terms of convergence theory of constant α -nets, α -ideals are obtained. We prove that the notion is good extension, productive and topologically invariant.

Keywords and phrases: molecules, R -neighborhoods, L -topological space, limit and cluster points, Ω -nets, constant α -nets, α -filters, α -ideals, Ω -compact and Ω -bounded sets.

