

# Some Results of Exhaustive Sequences in Metric Spaces

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## ABSTRACT

In this paper we present some properties in reference to notion of exhaustiveness which applies both for families and sequences of functions. This new notion give for the first time from Gregoriades and Papanastassiou in 2008 and has a good progress and in mathematical community is followed by many authors. The exhaustive family is contained from functions that are near with equicontinuity functions and some of their convergence holds between uniform and point-vice convergence. We are concern in study these families in metric space and we take some properties with interest.

Key words: Exhaustiveness, alfa-convergence, exhaustive sequence, equicontinuity, d-limit, d-measurability convergence.