

# Topological entropy for multivalued mappings

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The topological entropy, defined for single-valued continuous maps by Adler, Konheim and McAndrew in 1965 in compact topological spaces, and by Bowen in 1971 in metric spaces, measures a complexity of behaviour to related dynamical systems. Its positive value is sometimes characterized as *topological chaos*.

Recently, the study of topological entropy was also extended to multivalued maps in metric spaces (by authors Kelly, Tennant; Carrasco-Olivera, Metzger Alvan, Morales Rojas; Andres, Ludvík; ...).

In my poster I would like to provide a brief summary of evolution of the concept of topological entropy and introduce several results of my joint work with Jan Andres. We are concerned with estimates of multivalued topological entropy; entropy of induced hypermaps; generalizations to uniform spaces, etc.