

SEMINARIUM UKŁADY DYNAMICZNE

Tytuł: Topological properties of limit sets

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Abstract: It is well known that the topology and dynamics of limit sets play its role in the theory and applications of dynamical systems. In first part of my talk I will briefly describe different kinds of limit sets, their topological, dynamical properties and mutual connections.

Second part will be devoted to my recent work on a new criterium implying that the ω -limit set, under some assumption on the space and asymptotic properties of an orbit, can be a topological continuum. As a result we can also prove, that the limit set is in fact some sort of attractor.