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Tamas Wiandt* (tiwsma@rit.edu), 85 Lomb Memorial Dr, Rochester, NY 14623.

Decomposition possibilities for closed relations.

We present a short overview of the theory of dynamics of closed relations on compact Hausdorff spaces. We establish generalizations for some topological aspects of dynamical systems theory, including recurrence and attractor-repeller structure, and we investigate possible extensions for Morse and Conley decompositions. (Received June 21, 2011)