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PROBLEMS IN CONTINUUM THEORY IN MEMORY OF SAM B. NADLER, JR.

by

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**PROBLEMS IN CONTINUUM THEORY
IN MEMORY OF SAM B. NADLER, JR.**

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ABSTRACT. This paper contains annotated problems in continuum theory. Topics include homogeneous continua, hereditarily indecomposable continua (metric or Hausdorff), embedding continua in the plane, connections of continuum theory with dynamical systems, co-existential arcs, degree of homogeneity, hereditarily equivalent continua, hereditarily self-like continua, the semi-Kelley property, products of solenoids, span 0, and chainable, subchainable, and tree-like continua.

Contributions:

- (1) Ana Anušić, Henk Bruin, and Jernej Činč, *Problems on planar embeddings of chainable continua and accessibility*
- (2) Paul Bankston, *Monotone and co-existential images of ultra-arcs: Problems*
- (3) David P. Bellamy, *A question on hereditarily indecomposable tree-like continua*
- (4) Jan P. Boroński, *Problems on degree of homogeneity, dynamics, and mapping properties*
- (5) Włodzimierz J. Charatonik and Matt Insall, *Continua that are subcontinuum-like or hereditarily self-like*
- (6) Leobardo Fernández and Isabel Puga, *A question on semi-Kelley continua*
- (7) Logan C. Hoehn and Lex G. Oversteegen, *Characterizations of the pseudo-arc*
- (8) Alejandro Illanes, *A question on solenoids*

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Key words and phrases. chainable, dynamical systems, embedding in the plane, hereditary indecomposability, homogeneity, problems in continuum theory, subchainable and tree-like continua.

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