

Topology Proceedings



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E-mail: topolog@auburn.edu
ISSN: 0146-4124

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CONTRIBUTED PROBLEMS

The Problems Editor invites anyone who has published a paper in *Topology Proceedings* or has attended a Spring or Summer Topology Conference to submit problems to this section. They need not be related to any articles which have appeared in *Topology Proceedings* or elsewhere, but if they are, please provide full references. Please define any terms not in a general topology text nor in referenced articles.

Problems which are stated in, or relevant to, a paper in this volume are accompanied by the title of the paper where further information about the problem may be found. Comments of the proposer or submitter of the questions are so noted; comments of the Problems Editor are not specially noted. Information on the status of previously posed questions is always welcome. Submission of questions and comments by email in T_EX form is strongly encouraged, either to topolog@mail.auburn.edu or directly to the Problems Editor at mayer@math.uab.edu.

C. Compactness and Generalizations.

69. (Li Feng and Salvador Garcia-Ferreira, *Some Examples of MI-spaces and of SI-spaces*) What kind of spaces can be extended to maximal Tychonoff *MI* spaces?

F. Continuum Theory.

44. (James T. Rogers, Jr.) Let M be a hereditarily indecomposable continuum. Assume $\dim M = n > 1$. Let $H(M)$

be the homeomorphism group of M . Can $H(M)$ contain a nontrivial continuum? a nontrivial connected set?

45. (James T. Rogers, Jr.) Can M be rigid? i.e., the identity map is the only element of $H(M)$?

44–45. Comment of the proposer. For each integer $n > 1$, Rogers has exhibited an M such that $H(M)$ contains no nontrivial connected set.

R. Dimension Theory.

22. (A. Dranishnikov, *Every Coxeter group acts amenably on a compact space*) Does every discrete metric space X of bounded geometry (for example a finitely generated group) have the property, A : X is asymptotically finite dimensional?

23. (A. Dranishnikov, *ibid.*) Assume that the Higson corona of a discrete metric space X is finite dimensional. Does X have property A ?

24. (A. Dranishnikov, *ibid.*) Does every CAT(0) group have property A ?

S. Problems Closely Related to Set Theory.

25. (Justin Tatch Moore, *A Linearly Fibered Souslinean Space Under MA*) Is it consistent to assume that every c.c.c. compact topological space without a σ -linked base maps onto $[0, 1]^{\omega_1}$?