

The PFA(S) axiom and countably compact spaces

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There are many interesting and natural questions about the structure of countably compact [and compact] spaces of countable tightness that have relied on \diamond and PFA to establish their independence with ZFC. We consider the status of such questions under the PFA(S) axiom. S refers to a special kind of Souslin tree and PFA(S) is the PFA-like statement for S-preserving proper posets. This, and similar axioms, were introduced by P. Larson and S. Todorcevic. Many applications have been found in a number of papers, by Larson, Tall, and Todorcevic (together and separately), as well as other authors.