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PFA(S)[S]: mutually consistent consequences of PFA and $V = L$

Forcing with a coherent Souslin tree S , after iterating proper partial orders preserving S , produces interesting models. One gets “Souslin-type” consequences of PFA, as well as some combinatorics normally obtained from $V = L$. The combination of these two kinds of consequences leads to solutions of a number of previously intractable problems. The applications so far have been to topology, but one can expect to see other uses in the future. We shall discuss the method (pioneered by Todorćević) and some applications.

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