## Ramsey theorem for trees with successor operation

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We discuss a new Ramsey-type theorem for trees. On regularly branching trees it can be seen as a common generalization of the Milliken tree theorem and the Carlson–Simpson theorem. The main new concept is the use of sucessor operation enabling us to work with trees with unbounded branching and identify subtrees that are isomorphic to the original tree. Using this result we can give new direct proofs of recent results by Dobrinen [3, 2], Balko, Chodounský, Hubička, Konečný, Vena [1] and Zucker [4] as well as identify new structures with finite big Ramsey degrees.

This is joint work with Balko, Chodounský, Dobrinen, Konečný, Nešetřil, Vena and Zucker.

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