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Improved bound for the dimension of posets of treewidth two

It has long been known that posets with cover graphs of treewidth 3 can have arbitrarily large dimension. In 2017, Joret, Micek, Trotter, Wang and Wiechert showed that posets whose cover graphs have treewidth at most 2, have dimension at most 1276. We improve this bound to 12 with a much simpler proof.