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## EVEN HOLES, EXCLUDED TREES AND TREE-DECOMPOSITIONS

Tree decompositions are a powerful tool in structural graph theory, that is traditionally used in the context of forbidden graph minors. In this talk we will describe several new results concerning induced subgraph obstructions to bounded tree-width. We will also outline the proof of the following result, obtained in joint work with Tara Abrishami, Bogdan Alecu, Sepehr Hajebi and Sophie Spirkl: for every tree  $T$  and integer  $t$ , there exists a constant  $c$  such that every even-hole-free graph with no induced subgraph isomorphic to  $T$  and no clique of size  $t$  has tree-width at most  $c$ .