



## SURVEY OF METHODS FOR FACTORIZATIONS OF COMPLETE GRAPHS INTO SPANNING TREES

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Until recently it was only known that some symmetric trees factorize a complete graph  $K_{2n}$ . A symmetric tree is a tree  $T$  with an edge  $e = xy$  such that there exists an automorphism  $\varphi$  of  $T$  so that  $\varphi(x) = y$  and  $\varphi(y) = x$ . Therefore, we began to examine factorizations of complete graphs into non-symmetric spanning trees. We completely characterized spanning trees with at most four non-leave vertices that factorize  $K_{2n}$ . We want to present here all methods, which we are using.