



**ON FACTORIZATIONS OF COMPLETE GRAPHS INTO
SPANNING TREES WITH AT MOST FOUR NONLEAVE
VERTICES**

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The spanning trees factorization of complete graphs is a well established topic which is far from being closed. Only few classes of trees are classified whether they factorize complete graphs.

In this talk we give several necessary conditions for a spanning tree to factorize a complete graph on $2n$ vertices. Then we present the complete characterization of spanning trees with at most four nonleave vertices that factorize K_{2n} .