Embedding Partial $k$-star Decompositions of $K_n$

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A $k$-star is the complete bipartite graph $K_{1,k}$. A partial $k$-star decomposition of $K_n$ is a collection of edge-disjoint copies of $k$-stars in $K_n$. The $k$-star decomposition is no longer called partial when all of the edges of $K_n$ are used in copies of $k$-stars. We discuss the problem of embedding a partial $k$-star decomposition of $K_n$ into a $k$-star decomposition of $K_{n+t}$ where $t$ is some non-negative integer.

Keywords: graph decompositions, stars, embeddings