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Tree embeddings

There are several conjectures trying to relate the average/minimum/median degree of a graph with it having all trees of a certain size as subgraphs. One example is the Erdos-Sos conjecture, another example is the Loebel-Komlos-Sos conjecture. We investigate a new conjecture in this direction, which says that a minimum degree of $2k/3$ together with a maximum degree of k should be enough for having all trees of size k as subgraphs. The results we present are joint work with Havet, Reed and Wood, and with Reed.