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The Loebel-Komlós-Sós Conjecture

The Loebel-Komlós-Sós Conjecture relates the median degree of a graph with the containment of any tree of a fixed size. Szemerédi's Regularity Lemma was used to prove this conjecture for dense graphs, but is void for sparse ones. We shall briefly introduce novel techniques that allow to prove an approximate version of this conjecture in the sparse setting. This is a joint work with Hladký, Komlós, Simonovits, Stein, and Szemerédi.