

On possible uniform Turán densities.

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In the early 1980s, Erdős and Sós introduced a variant of the classical Turán problem: Given a family of 3-uniform hypergraphs $\mathcal{F}$, the *uniform Turán density* $\pi_u(\mathcal{F})$ is defined as the infimum $d \in [0, 1]$ such that every sufficiently large 3-graph that is *uniformly d -dense*—meaning it has edge density at least d on all linearly sized subsets—contains a copy of some $F \in \mathcal{F}$. Let Π_u denote the set of all possible uniform Turán densities. In this talk, we discuss recent progress on determining elements of Π_u .

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