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Big Ramsey degrees via coding trees

Recently, Dobrinen has shown that for every k, the class of k-clique free graphs has finite big Ramsey degrees. In this talk, I will discuss a generalization and simplification of this result which works for almost any binary free amalgamation class in a finite language. Time permitting, I will discuss joint work in progress with Balko, Chodounsky, Dobrinen, Hubicka, Konecny, and Vena which characterizes the exact big Ramsey degrees for these classes.