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Excluding a tree and a biclique

The Gyarfás-Sumner conjecture states that for every tree T , there is a function f such that graphs with no induced T have chromatic number bounded by f of their clique number. Hajnal and Rödl proved that if we replace "clique number" by "biclique number" (the largest t such that the graph contains $K_{t,t}$ as a subgraph) then the conjecture holds.

Bonamy, Bousquet, Pilipczuk, Rzázewski, Thomasse and Walczak recently showed that in this setting, if T is a path, f is polynomial. I will talk about a result extending this to all trees.

Joint work with Alex Scott and Paul Seymour.