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Chi-boundedness of graphs with no cycle with exactly k chords

A family of graph \mathcal{H} is called χ -bounded if there is a function f such that for every graph $H \in \mathcal{H}$, the following holds: $\chi(H) \leq f(\omega(H))$, where $\chi(H)$ is the chromatic number of H and $\omega(H)$ is the clique number of H .

We show that the family of graphs with no cycle with exactly k chords is χ -bounded, for every sufficiently large k .

This is joint work with Joonkyung Lee and Alexey Pokrovskiy.