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Title. A degree sequence Komlós theorem

Abstract. Given graphs G and H , we define an H -tiling in G to be a collection of vertex-disjoint copies of H in G . Let $\varepsilon > 0$. We call an H -tiling *perfect* if it covers all of the vertices in G and ε -almost perfect if it covers all but at most an ε -proportion of the vertices in G . An important theorem of Komlós [1] provides the minimum degree of G which ensures an ε -almost perfect H -tiling in G . We present a degree sequence strengthening of this result. This is joint work with Hong Liu and Andrew Treglown.

Using the aforementioned theorem of Komlós [1], Kühn and Osthus [2] determined the minimum degree of G that ensures a perfect H -tiling in G . We present a degree sequence version of their result as an application of our degree sequence Komlós theorem. This is joint work with Andrew Treglown.

REFERENCES

- [1] J. Komlós, *Tiling Turán Theorems*, *Combinatorica*, **20**, (2000), 203-218.
- [2] D. Kühn and D. Osthus, The minimum degree threshold for perfect graph packings, *Combinatorica* **29** (2009), 65-107.