DOCTORAL PROGRAM
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TU & KFU GRAZ · MU LEOBEN
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On the tree-packing conjecture of Gyarfas and Lehel

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In 1976, Gyarfas and Lehel made the somewhat stunning conjecture that any family of trees $T_1, T_2, \ldots T_n$, with $1, 2, \ldots, n$ vertices respectively, can be packed in an edge-disjoint manner into the complete graph on n vertices. This conjecture is still open.

In this talk I will sketch a proof for a slightly weakened version of this conjecture, where we only consider trees of bounded maximum degree and allow the complete graph to have an additional $o(n)$ vertices.

The proof uses tree-indexed random walks controlled by the nibble method and is joint work with J.Böttcher, J.Hladky and D.Piguet.

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