

Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 26th January 12:30 AE06, Steyrergasse 30

Almost partitioning every 2-edge-coloured complete k-graph into k monochromatic tight cycles

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A k-uniform tight cycle is a k-graph (k-uniform hypergraph) with a cyclic order of its vertices such that every k consecutive vertices from an edge. We show that for $k \geq 3$, every red-blue edge-coloured complete k-graph on n vertices contains k vertex-disjoint monochromatic tight cycles that together cover n - o(n) vertices.

This talk is based on joint work with Allan Lo.

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