

COMBINATORICS
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Decomposing the Complete r -Graph

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Abstract: The Graham-Pollak theorem states that, if we wish to decompose the complete graph K_n into complete bipartite subgraphs, then we need at least $n - 1$ of them. What happens for hypergraphs? In other words, if we wish to decompose the complete r -graph on n vertices into complete r -partite r -graphs, how many do we need?

In this talk we report on recent progress on this question. This is joint work with Luka Milicevic and Ta Sheng Tan.

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MATHEMATICS AND COMPUTER SCIENCE
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