

COMBINATORICS
SEMINAR

Canonical Ramsey numbers for partite hypergraphs

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Abstract: We consider quantitative aspects of the canonical Ramsey theorem of Rado for k -partite k -uniform hypergraphs. For the complete bipartite graph $K_{t,t}$ it was recently shown by Dobak and Mulrenin that these numbers grow exponential in $t - \log(t)$ and considering random edge colourings shows that this bound is asymptotically optimal. We extend this result to k -uniform hypergraphs and obtain a bound exponential in $\text{poly}(t)$. This is joint work with Giovanna Santos and Matias Azocar

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MATHEMATICS
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