

Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 14th June 12:30

Online meeting (Webex)

Matchings in multipartite hypergraphs

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A well-known elementary exercise on matchings in graphs is to prove that if G is a bipartite graph whose vertex classes A and B each have size n , with $\deg(u) \geq a$ for every $u \in A$ and $\deg(v) \geq b$ for every $v \in B$, then G admits a matching of size $\min\{n, a + b\}$. We prove the natural analogue for large k -partite k -uniform hypergraphs. This is joint work with Richard Mycroft.

Meeting link:

<https://tugraz.webex.com/tugraz/j.php?MTID=m8500c46344212abf0fa37925da5ef9bf>

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