

國立中山大學應用數學系 非線性分析及優化理論研究中心 學術演講

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講題：On the chromatic number of almost stable Kneser hypergraphs

時間：2014/12/11（星期四）14：10～15：00

地點：理學院四樓理 SC 4009-1 室

摘要

For positive integers n and s , a subset $S \subseteq [n] := \{1, 2, \dots, n\}$ is almost s -stable if $|i - j| \geq s$ for distinct $i, j \in S$. The almost s -stable r -uniform Kneser hypergraph is the r -uniform hypergraph which has the collection of all almost s -stable k -element subsets of $[n]$ as vertex set and whose edges are formed by the r -tuples of disjoint almost s -stable k -element subsets of $[n]$.

With the help of a generalized version of Tucker's lemma, Meunier (2011) proved that, for p prime and for any $n \geq kp$, the chromatic number of almost 2-stable p -uniform Kneser hypergraphs is equal to the chromatic number of the usual Kneser hypergraphs, namely that it is equal to $\lfloor (n-p(k-1)) / (p-1) \rfloor$.

In this talk, we investigate the chromatic number of the almost s -stable r -uniform Kneser hypergraphs for $2 \leq r \leq s$.

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