

Institut für Diskrete Mathematik

Seminar für Kombinatorik und Optimierung

Friday 26th March 14:15

Online meeting (Webex)

Large independent sets from local considerations

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How well can global properties of a graph be inferred from observations that are purely local? This general question gives rise to numerous interesting problems. One such very natural question was raised independently by Erdős-Hajnal and Linial-Rabinovich in the early 90's. How large must the independence number $\alpha(G)$ of a graph G be whose every m vertices contain an independent set of size r ? In this talk we discuss new methods to attack this problem which improve many previous results.

Joint work with M. Bucic

Meeting link:

<https://tugraz.webex.com/tugraz/j.php?MTID=me01f43109c693c884b459339d643d7d9>

Meeting number: 121 128 5385

Password: e8pQ8ZBQN4B

Joshua Erde, Mihyun Kang